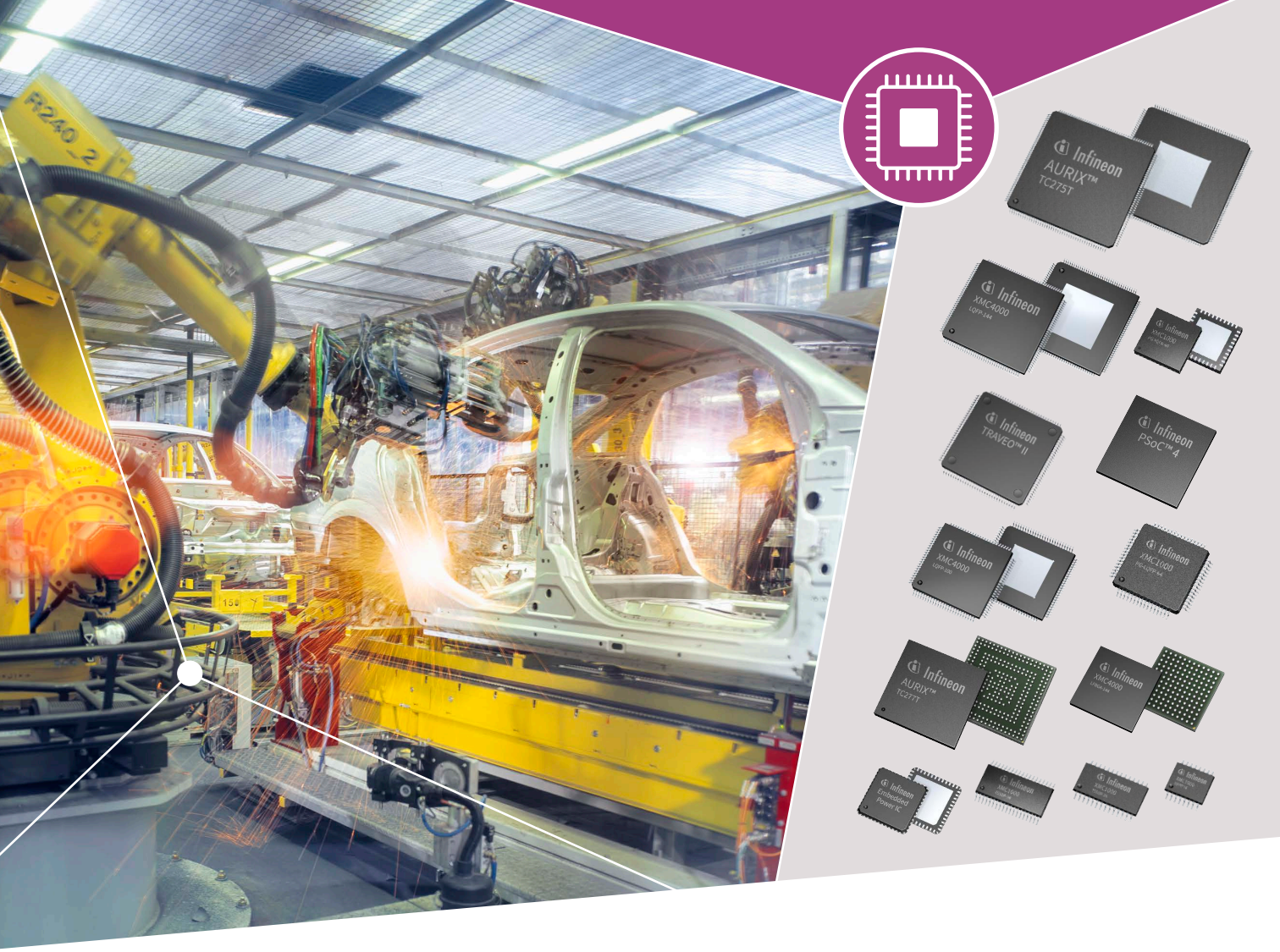
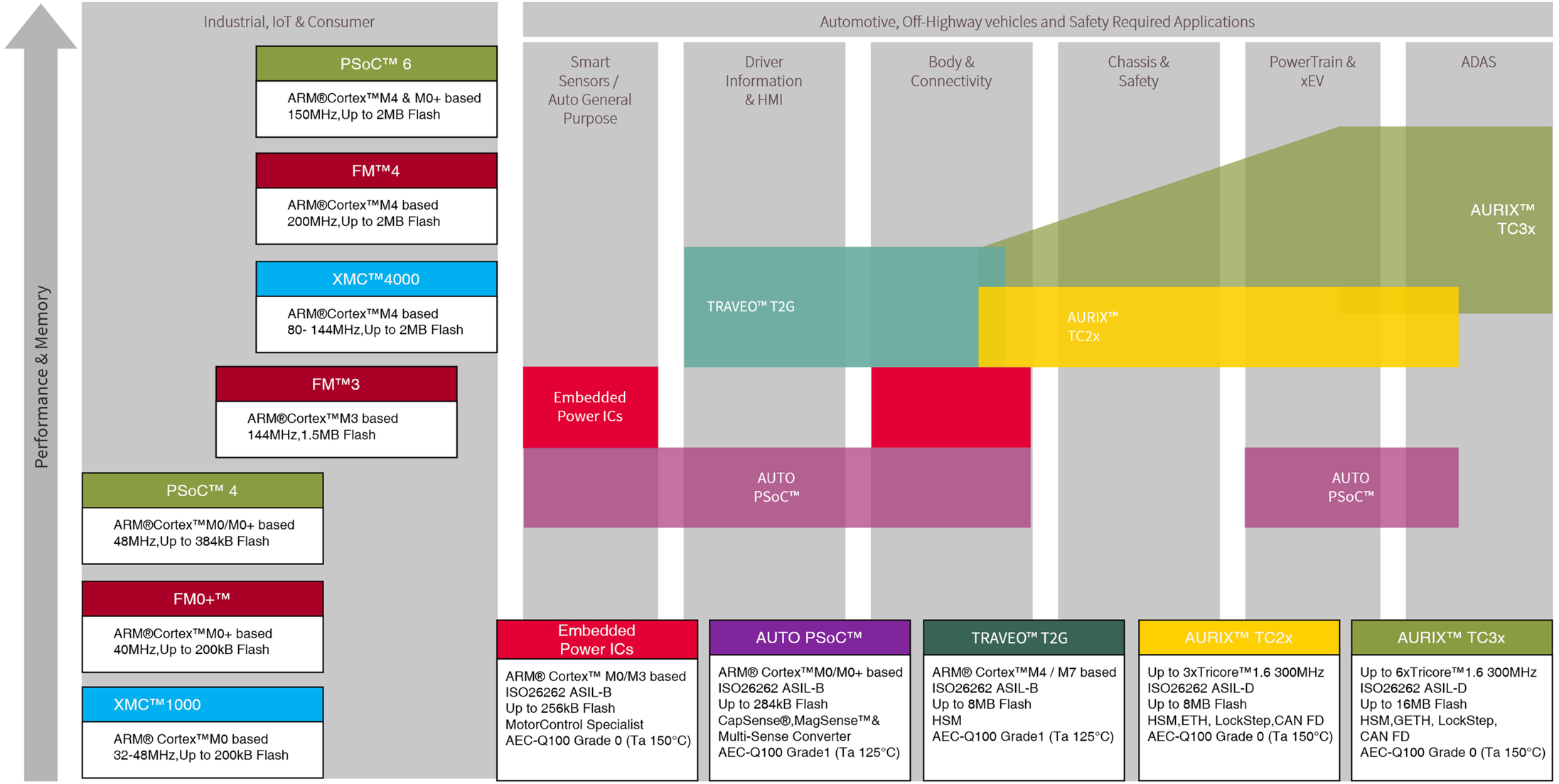


Microcontroller pocket guide

www.infineon.com/microcontrollers

Infineon microcontrollers portfolio



Note: AURIX™ is recommended for Industrial Applications that requires Safety ASIL-D and IEC 61508

Contents

Industrial, IoT and Consumer

32-bit XMC™ Microcontroller – XMC1000 family

Brand | Device

XMC 1 3 0 2 – T 0 3 8 X 2 0 0 A A

Arm® Cortex™-M

- Arm® Cortex™-M0
- Architecture
- Series
- Package class
- Pins
- Temperature range
- Memory size
- Step

Arm® Cortex™-M0

Architecture
4 architecture
3 architecture
2 architecture
1 architecture

Series
4 series
3 series
2 series
1 series
0 series

Package class
Q VQFN
T TSSO

Pins
40 pins
38 pins
28 pins
24 pins
16 pins

Temperature range
X -40 ... +105°C
F -40 ... +85°C

Flash size code
200 kB
128 kB
64 kB
32 kB
16 kB
8 kB

Step
AA 01
AB 02

32-bit XMC™ Microcontroller – XMC1000 family

Product type/partnumber	Markets			Package	GPIOs	Core		Co-processor			System								Debug		Supply voltage [V]	Operating temperature range T_A [°C]	Memory					Data/IP protection	Secure bootloader	Peripherals clock [MHz]	Analog			Timer/PWM						Communication													LED display	Capacitive touch
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM	Cache	EEPROM emulationin flash				No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller) # channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	IIS/I²S	LIN	External Bus Unit (EBU)		
XMC1100 Series																																																			
XMC1100-T016F0008	–	●	●	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	8	–	16	–	●	–	●	64	1/1/7	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1100-T016F0016	–	●	●	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	16	–	16	–	●	–	●	64	1/1/7	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1100-T016X0016	–	●	●	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	16	–	16	–	●	–	●	64	1/1/7	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1100-T016X0032	–	●	●	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	32	–	16	–	●	–	●	64	1/1/7	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1100-T016F0032	–	●	●	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	32	–	16	–	●	–	●	64	1/1/7	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1100-T016F0064	–	●	●	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	64	–	16	–	●	–	●	64	1/1/7	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1100-T016X0064	–	●	●	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	64	1/1/7	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1100-T038F0016	–	●	●	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	16	–	16	–	●	–	●	64	1/1/12	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1100-T038F0032	–	●	●	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	32	–	16	–	●	–	●	64	1/1/12	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1100-T038F0064	–	●	●	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	64	–	16	–	●	–	●	64	1/1/12	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1100-T038X0064	–	●	●	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	64	1/1/12	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1100-Q024F0008	–	●	●	VQFN-24	22	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	64	–	16	–	●	–	●	64	1/1/9	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1100-Q024F0016	–	●	●	VQFN-24	22	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	16	–	16	–	●	–	●	64	1/1/9	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1100-Q024X0016	–	●	●	VQFN-24	22	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	16	–	16	–	●	–	●	64	1/1/9	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1100-Q024F0032	–	●	●	VQFN-24	22	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	32	–	16	–	●	–	●	64	1/1/9	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1100-Q024F0064	–	●	●	VQFN-24	22	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	64	–	16	–	●	–	●	64	1/1/9	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1100-Q040F0016	–	●	●	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	16	–	16	–	●	–	●	64	1/1/12	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1100-Q040F0032	–	●	●	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	32	–	16	–	●	–	●	64	1/1/12	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1100-Q040F0064	–	●	●	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	64	–	16	–	●	–	●	64	1/1/12	–	–	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1200 Series																																																			
XMC1200-T038F0200	–	●	●	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	200	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	2x 64 segment	16 ch
XMC1201-T038F0016	–	●	●	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	16	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	2x 64 segment	16 ch
XMC1201-T038F0032	–	●	●	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	32	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	2x 64 segment	16 ch
XMC1201-T038F0064	–	●	●	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	64	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	2x 64 segment	16 ch
XMC1201-T038F0128	–	●	●	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	128	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	2x 64 segment	16 ch
XMC1201-T038F0200	–	●	●	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	200	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	2x 64 segment	16 ch
XMC1201-Q040F0016	–	●	●	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	16	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	2x 64 segment	16 ch

32-bit XMC™ Microcontroller – XMC1000 family

Product type/partnumber	Markets			Package	GPIOs	Core		Co-processor			System								Debug		Supply voltage [V]	Operating temperature range T_A [°C]	Memory					Data/IP protection	Secure bootloader	Peripherals clock [MHz]	Analog			Timer/PWM						Communication											LED display	Capacitive touch
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM	Cache	EEPROM emulationin flash				No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller) # channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	IIS/I²S	LIN	External Bus Unit (EBU)		
XMC1200 Series																																																		
XMC1201-Q040F0032	–	●	●	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	32	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	2x 64 segment	16 ch
XMC1201-Q040F0064	–	●	●	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	64	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	2x 64 segment	16 ch
XMC1201-Q040F0128	–	●	●	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	128	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	2x 64 segment	16 ch
XMC1201-Q040F0200	–	●	●	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	200	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	–	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	2x 64 segment	16 ch
XMC1201-T028F0016	–	●	●	TSSOP-28	26	Cortex®-M1	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	16	–	16	–	●	–	●	64	1/2/10	–	2x	4 ch	–	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	2x 64 segment	16 ch
XMC1201-T028F0032	–	●	●	TSSOP-28	26	Cortex®-M1	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	32	–	16	–	●	–	●	64	1/2/10	–	2x	4 ch	–	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	2x 64 segment	16 ch
XMC1202-T016X0016	–	●	●	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	16	–	16	–	●	–	●	64	1/2/7	–	2x	4 ch	–	–	–	–	9 ch	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1202-T016X0032	–	●	●	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	32	–	16	–	●	–	●	64	1/2/7	–	2x	4 ch	–	–	–	–	9 ch	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1202-T028X0016	–	●	●	TSSOP-28	26	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	16	–	16	–	●	–	●	64	1/2/10	–	3x	4 ch	–	–	–	–	9 ch	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1202-T028X0032	–	●	●	TSSOP-28	26	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	32	–	16	–	●	–	●	64	1/2/10	–	3x	4 ch	–	–	–	–	9 ch	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1202-T028X0064	–	●	●	TSSOP-28	26	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	64	1/2/10	–	3x	4 ch	–	–	–	–	9 ch	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1202-Q024X0016	–	●	●	VQFN-24	22	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	16	–	16	–	●	–	●	64	1/2/9	–	3x	4 ch	–	–	–	–	9 ch	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1202-Q024X0032	–	●	●	VQFN-24	22	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	32	–	16	–	●	–	●	64	1/2/9	–	3x	4 ch	–	–	–	–	9 ch	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1202-Q040X0016	–	●	●	VQFN-40	26	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	16	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	–	–	–	–	9 ch	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1202-Q040X0032	–	●	●	VQFN-40	26	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	32	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	–	–	–	–	9 ch	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1202-T016X0064	–	●	●	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 106	64	–	16	–	●	–	●	64	1/2/7	–	2x	4 ch	–	–	–	–	–	–	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1300 Series																																																		
XMC1301-T016F0008	–	●	●	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	8	–	16	–	●	–	●	64	1/2/7	–	2x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1301-T016X0008	–	●	●	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	8	–	16	–	●	–	●	64	1/2/7	–	2x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1301-T016F0016	–	●	●	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	16	–	16	–	●	–	●	64	1/2/7	–	2x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1301-T016X0016	–	●	●	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	16	–	16	–	●	–	●	64	1/2/7	–	2x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1301-T016F0032	–	●	●	TSSOP-16	14	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	32	–	16	–	●	–	●	64	1/2/7	–	2x	–	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1301-T038F0008	–	●	●	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	8	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1301-T038F0016	–	●	●	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	16	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1301-T038F0032	–	●	●	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	32	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1301-T038X0032	–	●	●	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	32	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1301-T038F0064	–	●	●	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	64	–	16	–	●	–	●	64	1/2/12	–	3x	–	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1301-T038X0064	–	●	●	TSSOP-38	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	64	1/2/12	–	3x	–	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1301-Q024F0008	–	●	●	VQFN-24	22	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	8	–	16	–	●	–	●	64	1/2/9	–	3x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–

32-bit XMC™ Microcontroller – XMC1000 family

Product type/partnumber	Markets			Package	GPIOs	Core		Co-processor			System								Debug		Supply voltage [V]	Operating temperature range T_A [°C]	Memory					Data/IP protection	Secure bootloader	Peripherals clock [MHz]	Analog			Timer/PWM						Communication															LED display	Capacitive touch
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM	Cache	EEPROM emulationin flash				No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller) # channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	IIS/I²S	LIN	External Bus Unit (EBU)		
XMC1300 Series																																																				
XMC1301-Q024F0016	–	●	●	VQFN-24	22	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	16	–	16	–	●	–	●	64	1/2/9	–	3x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1301-Q040F0008	–	●	●	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	8	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1301-Q040F0016	–	●	●	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	16	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1301-Q040F0032	–	●	●	VQFN-40	34	Cortex®-M0	32	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	32	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	–	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-T016X0008	–	●	●	TSSOP-16	14	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	8	–	16	–	●	–	●	64	1/2/7	–	2x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-T016X0016	–	●	●	TSSOP-16	14	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	16	–	16	–	●	–	●	64	1/2/7	–	2x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-T016X0032	–	●	●	TSSOP-16	14	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	32	–	16	–	●	–	●	64	1/2/7	–	2x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-T028X0016	–	●	●	TSSOP-28	26	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	16	–	16	–	●	–	●	64	1/2/10	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-T028X0032	–	●	●	TSSOP-28	26	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	32	–	16	–	●	–	●	64	1/2/10	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-T028X0064	–	●	●	TSSOP-28	26	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	64	1/2/10	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-T028X0128	–	●	●	TSSOP-28	26	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	128	–	16	–	●	–	●	64	1/2/10	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-T028X0200	–	●	●	TSSOP-28	26	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	200	–	16	–	●	–	●	64	1/2/10	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-T038X0016	–	●	●	TSSOP-38	34	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	16	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-T038X0032	–	●	●	TSSOP-38	34	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	32	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-T038X0064	–	●	●	TSSOP-38	34	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	8	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-T038X0128	–	●	●	TSSOP-38	34	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	128	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-T038X0200	–	●	●	TSSOP-38	34	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	200	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-Q024F0016	–	●	●	VQFN-24	22	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	16	–	16	–	●	–	●	64	1/2/9	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-Q024X0016	–	●	●	VQFN-24	22	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	16	–	16	–	●	–	●	64	1/2/9	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-Q024F0032	–	●	●	VQFN-24	22	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	32	–	16	–	●	–	●	64	1/2/9	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-Q024X0032	–	●	●	VQFN-24	22	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	32	–	16	–	●	–	●	64	1/2/9	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-Q024F0064	–	●	●	VQFN-24	22	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	64	–	16	–	●	–	●	64	1/2/9	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-Q024X0064	–	●	●	VQFN-24	22	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	64	1/2/9	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-Q040X0016	–	●	●	VQFN-40	34	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	16	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-Q040X0032	–	●	●	VQFN-40	26	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	32	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-Q040X0064	–	●	●	VQFN-40	34	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-Q040X0128	–	●	●	VQFN-40	34	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	128	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–
XMC1302-Q040X0200	–	●	●	VQFN-40	34	Cortex®-M0	32	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	200	–	16	–	●	–	●	64	1/2/12	–	3x	4 ch	4 ch	–	–	1x	9 ch	–	–	–	–	–	2 ch	●	●	●	●	●	●	●	–	–	–

32-bit XMC™ Microcontroller – XMC1000 family

Product type/partnumber	Markets			Package	GPIOs	Core		Co-processor			System								Debug		Supply voltage [V]	Operating temperature range T_A [°C]	Memory					Data/IP protection	Secure bootloader	Peripherals clock [MHz]	Analog			Timer/PWM						Communication												LED display	Capacitive touch
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM	Cache	EEPROM emulationin flash				No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller) # channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	IIS/I²S	LIN	External Bus Unit (EBU)		
XMC1400 Series																																																		
XMC1401-Q048F0064	–	●	●	VQFN-48	42	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	128	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
XMC1401-Q048F0128	–	●	●	VQFN-48	42	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	128	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
XMC1401-F064F0064	–	●	●	LQFP-64	55	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	64	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
XMC1401-F064F0128	–	●	●	LQFP-64	55	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 85	128	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
XMC1402-T038X0032	–	●	●	TSSOP-38	34	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	32	–	16	–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-T038X0064	–	●	●	TSSOP-38	34	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-T038X0128	–	●	●	TSSOP-38	34	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-T038X0200	–	●	●	TSSOP-38	34	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q040X0032	–	●	●	VQFN-40	35	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	32	–	16	–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q040X0064	–	●	●	VQFN-40	35	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q040X0128	–	●	●	VQFN-40	35	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q040X0200	–	●	●	VQFN-40	35	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	3x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q048X0032	–	●	●	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	32	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q048X0064	–	●	●	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q048X0128	–	●	●	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q048X0200	–	●	●	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q064X0064	–	●	●	VQFN-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q064X0128	–	●	●	VQFN-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-Q064X0200	–	●	●	VQFN-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-F064X0064	–	●	●	LQFP-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-F064X0128	–	●	●	LQFP-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1402-F064X0200	–	●	●	LQFP-65	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1403-Q048X0064	–	●	●	VQFN-48	42	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	2	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1403-Q048X0128	–	●	●	VQFN-48	42	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	2	–	–	–	4 ch	●	●	●	●	●	●	●	–	–	–

32-bit XMC™ Microcontroller – XMC1000 family

Product type/partnumber	Markets			Package	GPIOs	Core		Co-processor			System								Debug		Supply voltage [V]	Operating temperature range T_A [°C]	Memory					Data/IP protection	Secure bootloader	Peripherals clock [MHz]	Analog			Timer/PWM						Communication											LED display	Capacitive touch
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM	Cache	EEPROM emulationin flash				No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller) # channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	IIS/I²S	LIN	External Bus Unit (EBU)		
XMC1400 Series																																																		
XMC1403-Q048X0200	–	●	●	VQFN-48	42	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1403-Q064X0064	–	●	●	VQFN-64	55	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1403-Q064X0128	–	●	●	VQFN-64	55	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1403-Q064X0200	–	●	●	VQFN-64	55	Cortex®-M0	48	–	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	–	8 ch	–	–	–	–	–	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC1404-Q048X0064	–	●	●	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
XMC1404-Q048X0128	–	●	●	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
XMC1404-Q048X0200	–	●	●	VQFN-48	42	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
XMC1404-Q064X0064	–	●	●	VQFN-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
XMC1404-Q064X0128	–	●	●	VQFN-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
XMC1404-Q064X0200	–	●	●	VQFN-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
XMC1404-F064X0064	–	●	●	LQFP-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	64	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
XMC1404-F064X0128	–	●	●	LQFP-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	128	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch
XMC1404-F064X0200	–	●	●	LQFP-64	55	Cortex®-M0	48	●	–	–	1	–	–	–	●	●	●	●	–	1.8 to 5.5	-40 to 105	200	–	16	–	●	–	●	96	1/2/12	–	4x	8 ch	8 ch	–	–	2x	9 ch	–	–	2	–	–	4 ch	●	●	●	●	●	●	●	–	3x 64 segment	24 ch

BCCU = Brightness and Color Control Unit for LED lighting
CCU = Capture Compare Unit
FPU = Floating Point Unit
MMC = Multi Media Card

POSIF = Motor Position Interface
SDIO = SD Card Interface with Input/Output
USIC = UART/SCI, SPI, Dual-SPI, Quad-SPI, IIC/I²C, IIS/I²S, LIN

32-bit XMC™ Microcontroller – XMC4000 family

Brand | Device

XMC 4 5 0 0 – F 144 K 1024 AC

- XMC: Arm® Cortex™-M
- 4: Arm® Cortex™-M4
- 5: Architecture
- 0: Series
- F: Package class
- 144: Pins
- K: Temperature range
- 1024: Memory size
- AC: Step

Arm® Cortex™-M4
with built in DSP, SPFPU, DMA and MPU

Architecture
8 architecture
7 architecture
5 architecture
4 architecture
3 architecture
2 architecture
1 architecture

Series
8 series
4 series
2 series
0 series

Package class
E LFBGA
F LQFP
Q VQFN

Pins
196 pins
144 pins
100 pins
64 pins
48 pins

Temperature range
K -40 ... +125°C
X -40 ... +105°C
F -40 ... +85°C

Flash size code
2048 kB
1536 kB
1024 kB
768 kB
512 kB
256 kB
128 kB
64 kB

Step
AA 01
AB 02
AC 03
BA 04

32-bit XMC™ Microcontroller – XMC4000 family

Product type/partnumber	Markets			Package	GPIOs	Core		Co-processor			System								Debug		Supply voltage [V]	Operating temperature range T_A [°C]	Memory					Data/IP protection	Secure bootloader	Peripherals clock [MHz]	Analog			Timer/PWM						Communication																LED display	Capacitive touch
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM	Cache	EEPROM emulationin flash				No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller) # channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	IIS/I²S	LIN	External Bus Unit (EBU)		
XMC4100 Series																																																					
XMC4108-Q48K64	–	●	●	VQFN-48	30	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	64	●	20	1	●	●	–	80	2/2/8	2 ch	–	8 ch	4 ch	–	–	1x	–	–	–	1	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC4108-F64K64	–	●	●	TQFP-64	45	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	64	●	20	1	●	●	–	80	2/2/9	2 ch	–	8 ch	4 ch	–	–	1x	–	–	–	1	–	–	4 ch	●	●	●	●	●	●	●	–	–	–
XMC4104-Q48F64	–	●	●	VQFN-48	30	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	64	●	20	1	●	●	–	80	2/2/8	2 ch	–	8 ch	4 ch	●	–	1x	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4104-Q48F128	–	●	●	VQFN-48	30	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	128	●	20	1	●	●	–	80	2/2/8	2 ch	–	8 ch	4 ch	●	–	1x	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4104-Q48K64	–	●	●	VQFN-48	30	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	64	●	20	1	●	●	–	80	2/2/8	2 ch	–	8 ch	4 ch	●	–	1x	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4104-Q48K128	–	●	●	VQFN-48	30	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	128	●	20	1	●	●	–	80	2/2/8	2 ch	–	8 ch	4 ch	●	–	1x	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4104-F64F64	–	●	●	TQFP-64	45	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	64	●	20	1	●	●	–	80	2/2/9	2 ch	–	8 ch	4 ch	●	–	1x	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4104-F64F128	–	●	●	TQFP-64	45	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	128	●	20	1	●	●	–	80	2/2/9	2 ch	–	8 ch	4 ch	●	–	1x	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4104-F64K64	–	●	●	TQFP-64	45	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	64	●	20	1	●	●	–	80	2/2/9	2 ch	–	8 ch	4 ch	●	–	1x	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4104-F64K128	–	●	●	TQFP-64	45	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	128	●	20	1	●	●	–	80	2/2/9	2 ch	–	8 ch	4 ch	●	–	1x	–	–	–	–	–	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4100-Q48F128	–	●	●	VQFN-48	30	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	128	●	20	1	●	●	–	80	2/2/8	2 ch	–	8 ch	4 ch	●	–	1x	–	–	–	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4100-Q48K128	–	●	●	VQFN-48	30	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	128	●	20	1	●	●	–	80	2/2/8	2 ch	–	8 ch	4 ch	●	–	1x	–	–	–	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4100-F64F128	–	●	●	TQFP-64	45	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	128	●	20	1	●	●	–	80	2/2/9	2 ch	–	8 ch	4 ch	●	–	1x	–	–	–	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4100-F64K128	–	●	●	TQFP-64	45	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	128	●	20	1	●	●	–	80	2/2/9	2 ch	–	8 ch	4 ch	●	–	1x	–	–	–	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4200 Series																																																					
XMC4200-Q48F256	–	●	●	VQFN-48	30	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	256	●	40	1	●	●	–	80	2/2/8	2 ch	–	8 ch	4 ch	●	–	1x	–	–	–	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4200-Q48K256	–	●	●	VQFN-48	30	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	256	●	40	1	●	●	–	80	2/2/8	2 ch	–	8 ch	4 ch	●	–	1x	–	–	–	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4200-F64F256	–	●	●	TQFP-64	45	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	256	●	40	1	●	●	–	80	2/2/9	2 ch	–	8 ch	4 ch	●	–	1x	–	–	–	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4200-F64K256	–	●	●	TQFP-64	45	Cortex®-M4	80	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	256	●	40	1	●	●	–	80	2/2/9	2 ch	–	8 ch	4 ch	●	–	1x	–	–	–	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4300 Series																																																				
XMC4300-F100F256	–	●	–	LQFP-100	75	Cortex®-M4	144	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	256	●	128	8	●	●	–	144	2/2/14	2 ch	–	8 ch	4 ch	–	–	–	–	●	●	2	●	●	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4300-F100K256	–	●	–	LQFP-100	75	Cortex®-M4	144	–	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	256	●	128	8	●	●	–	144	2/2/14	2 ch	–	8 ch	4 ch	–	–	–	–	●	●	2	●	●	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch

32-bit XMC™ Microcontroller – XMC4000 family

Product type/partnumber	Markets			Package	GPIOs	Core		Co-processor			System								Debug		Supply voltage [V]	Operating temperature range T_A [°C]	Memory					Data/IP protection	Secure bootloader	Peripherals clock [MHz]	Analog			Timer/PWM						Communication											LED display	Capacitive touch
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM	Cache	EEPROM emulationin flash				No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller) # channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	IIS/I²S	LIN	External Bus Unit (EBU)		
XMC4400 Series																																																		
XMC4402-F64F256	–	●	●	TQFP-64	41	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	256	●	80	4	●	●	–	120	4/4/9	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	–	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4402-F64K256	–	●	●	TQFP-64	41	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	256	●	80	4	●	●	–	120	4/4/9	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	–	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4402-F100F256	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	256	●	80	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	–	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4402-F100K256	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	256	●	80	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	–	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4400-F64F256	–	●	●	TQFP-64	41	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	256	●	80	4	●	●	–	120	4/4/9	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	●	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4400-F64F512	–	●	●	TQFP-64	41	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	512	●	80	4	●	●	–	120	4/4/9	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	●	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4400-F64K256	–	●	●	TQFP-64	41	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	256	●	80	4	●	●	–	120	4/4/9	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	●	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4400-F64K512	–	●	●	TQFP-64	41	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	512	●	80	4	●	●	–	120	4/4/9	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	●	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4400-F100F256	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	256	●	80	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	●	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4400-F100F512	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	512	●	80	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	●	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4400-F100K256	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	256	●	80	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	●	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4400-F100K512	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	8 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	512	●	80	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	●	4 ch	2x	–	–	●	2	●	–	4 ch	●	●	●	●	●	●	●	–	1x 64 segment	8 ch
XMC4500 Series																																																		
XMC4504-F100F512	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	512	●	128	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	–	–	–	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4504-F100K512	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	512	●	128	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	–	–	–	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4504-F144F512	–	●	●	LQFP-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	512	●	128	4	●	●	–	120	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	–	–	–	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4504-F144K512	–	●	●	LQFP-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	512	●	128	4	●	●	–	120	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	–	–	–	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4502-F100F768	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	768	●	160	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	–	3	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4502-F100K768	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	768	●	160	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	–	3	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-F100F768	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	768	●	160	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-F100F1024	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	1024	●	160	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-F100K768	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	768	●	160	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-F100K1024	–	●	●	LQFP-100	75	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	1024	●	160	4	●	●	–	120	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-F144F768	–	●	●	LQFP-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	768	●	160	4	●	●	–	120	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-F144F1024	–	●	●	LQFP-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	1024	●	160	4	●	●	–	120	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-F144K768	–	●	●	LQFP-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	768	●	160	4	●	●	–	120	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-E144F1024	–	●	●	LFBGA-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	1024	●	160	4	●	●	–	120	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-F144K1024	–	●	●	LQFP-144	119	Cortex®-M4	120	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	1024	●	160	4	●	●	–	120	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch

32-bit XMC™ Microcontroller – XMC4000 family

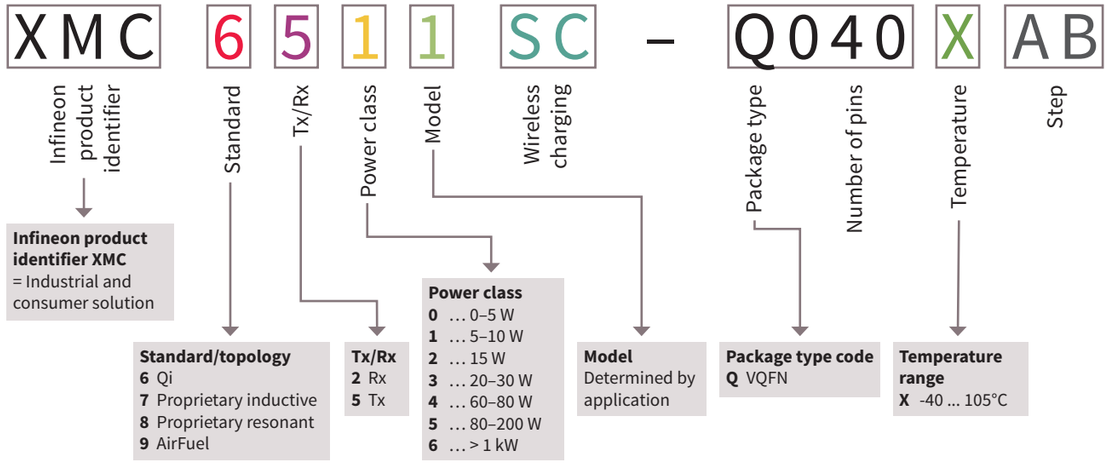
Product type/partnumber	Markets			Package	GPIOs	Core		Co-processor			System								Debug		Supply voltage [V]	Operating temperature range T_A [°C]	Memory					Data/IP protection	Secure bootloader	Peripherals clock [MHz]	Analog			Timer/PWM						Communication												LED display	Capacitive touch
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM	Cache	EEPROM emulationin flash				No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	# channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	IIS/I²S	LIN	External Bus Unit (EBU)		
XMC4700 Series																																																		
XMC4700-F100F1536	–	●	●	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	1536	●	276	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4700-F100K1536	–	●	●	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	1536	●	276	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4700-F100F2048	–	●	●	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	2048	●	352	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4700-F100K2048	–	●	●	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	2048	●	352	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4700-F144F1536	–	●	●	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	1536	●	276	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4700-F144K1536	–	●	●	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	40 to 125	1536	●	276	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4700-F144F2048	–	●	●	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	2048	●	352	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4700-F144K2048	–	●	●	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	2048	●	352	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4700-E196F1536	–	●	●	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	1536	●	276	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4700-E196K1536	–	●	●	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	1536	●	276	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4700-E196F2048	–	●	●	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	2048	●	352	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4700-E196K2048	–	●	●	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	2048	●	352	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	–	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4800 Series																																																	
XMC4800-F100F1024	–	●	–	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	1024	●	200	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4800-F100K1024	–	●	–	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	1024	●	200	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4800-F100F1536	–	●	–	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	1536	●	276	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4800-F100K1536	–	●	–	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	1536	●	276	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4800-F100F2048	–	●	–	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	2048	●	352	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4800-F100K2048	–	●	–	LQFP-100	75	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to125	2048	●	352	8	●	●	–	144	4/4/18	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4800-F144F1024	–	●	–	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	1024	●	200	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4800-F144K1024	–	●	–	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	1024	●	200	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4800-F144F1536	–	●	–	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	1536	●	276	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4800-F144K1536	–	●	–	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 125	1536	●	276	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4800-F144F2048	–	●	–	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	2048	●	352	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4800-F144K2048	–	●	–	LQFP-144	119	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to125	2048	●	352	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4800-E196F1024	–	●	–	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●			3.13 to 3.63	-40 to 85	1024	●	200	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch

32-bit XMC™ Microcontroller – XMC4000 family

Product type/partnumber	Markets			Package	GPIOs	Core		Co-processor			System								Debug		Supply voltage [V]	Operating temperature range T_A [°C]	Memory					Data/IP protection	Secure bootloader	Peripherals clock [MHz]	Analog			Timer/PWM						Communication												LED display	Capacitive touch
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM	Cache	EEPROM emulationin flash				No. of 12-bit ADC/ No. of sample & hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller) # channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	IIS/I²S	LIN	External Bus Unit (EBU)		
XMC4800 Series																																																		
XMC4800-E196K1024	–	●	–	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	1024	●	200	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4800-E196F1536	–	●	–	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	1536	●	276	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4800-E196K1536	–	●	–	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	1536	●	276	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4800-E196F2048	–	●	–	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	2048	●	352	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4800-E196K2048	–	●	–	LFBGA-196	155	Cortex®-M4	144	–	●	●	2	12 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to125	2048	●	352	8	●	●	–	144	4/4/26	2 ch	–	16 ch	8 ch	–	4 ch	2x	–	●	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	1x 64 segment	8 ch

BCCU = Brightness and Color Control Unit for LED lighting
CCU = Capture Compare Unit
FPU = Floating Point Unit
MMC = Multi Media Card
POSIF = Motor Position Interface
SDIO = SD Card Interface with Input/Output
USIC = UART/SCI, SPI, Dual-SPI, Quad-SPI, IIC/I²C, IIS/I²S, LIN

Wireless power controller



Wireless charging series

Product type/ partnumber	Automotive	Industrial	Consumer	Package	GPIOs	Topology	Power [W]	Transmitter	Receiver	Certification	CAN	NFC
XMC8201SC-Q024X	–	●	●	VQFN-24	–	Resonant	2.5	–	●	–	–	–
XMC8501SC-Q040X	–	●	●	VQFN-40	–	Resonant	2.5	●	–	–	CAN 2.0	SPI
XMC8231SC-Q024X	–	●	●	VQFN-24	–	Resonant	30	–	●	–	–	–
XMC8531SC-Q040X	–	●	●	VQFN-40	–	Resonant	30	●	–	–	CAN 2.0	SPI
XMC7201SC-Q024X	–	●	●	VQFN-24	–	Inductive	< 5	–	●	–	–	–
XMC7501SC-Q040X	–	●	●	VQFN-40	–	Inductive	< 5	●	–	–	CAN 2.0	SPI
XMC6511SC-Q040X	–	●	●	VQFN-40	–	Inductive	10	●	–	Qi-Certified	–	–
XMC6521SC-Q040X	–	●	●	VQFN-40	–	Inductive	15	●	–	Qi-Certified	–	–
XMC7231SC-Q024X	–	●	●	VQFN-24	–	Custom	30	–	●	–	–	–
XMC7531SC-Q040X	–	●	●	VQFN-40	–	Custom	30	●	–	–	–	–
XMC7234SC-Q040X	–	●	●	VQFN-41	–	Custom	30	–	●	–	–	–
XMC7533SC-Q040X	–	●	●	VQFN-42	–	Custom	30	●	–	–	–	–
XMC7241SC-Q024X	–	●	●	VQFN-43	–	Inductive	80	–	●	–	CAN 2.0	SPI
XMC7541SC-Q040X	–	●	●	VQFN-44	–	Inductive	80	●	–	–	CAN 2.0	SPI
SAK-TC212S-8F133SC	●	–	–	TQFP-80	–	Inductive	15	●	–	Qi-Certified	CAN FD	SPI

Industrial PSoC™ 4000

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/ Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4000 Series																																
CY8C4013LQI-411	●	●	–	QFN	13	Cortex®-M0	16	–	0x0A431193	8	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Tray
CY8C4013LQI-411T	●	●	–	QFN	13	Cortex®-M0	16	–	0x0A431193	8	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Reel
CY8C4013SXI-400	●	●	–	SOP	5	Cortex®-M0	16	–	0x0A401193	8	–	2	–	85	5.5	-40	1.7	–	–	–	1	–	–	1	–	–	–	–	–	–	–	Tube
CY8C4013SXI-400T	●	●	–	SOP	5	Cortex®-M0	16	–	0x0A401193	8	–	2	–	85	5.5	-40	1.7	–	–	–	1	–	–	1	–	–	–	–	–	–	–	Reel
CY8C4013SXI-410	●	●	–	SOP	5	Cortex®-M0	16	–	0x0A411193	8	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Tube
CY8C4013SXI-410T	●	●	–	SOP	5	Cortex®-M0	16	–	0x0A411193	8	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Reel
CY8C4013SXI-411	●	●	–	SOP	13	Cortex®-M0	16	–	0x0A421193	8	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Tube
CY8C4013SXI-411T	●	●	–	SOP	13	Cortex®-M0	16	–	0x0A421193	8	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Reel
CY8C4014FNI-421AT	●	●	●	WLCSP	13	Cortex®-M0	16	–	0x0A441193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Reel
CY8C4014LQI-412	●	●	–	QFN	20	Cortex®-M0	16	–	0x0A471193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Tray
CY8C4014LQI-412KT	●	●	–	QFN	20	Cortex®-M0	16	–	0x0A471193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Tray
CY8C4014LQI-412T	●	●	–	QFN	20	Cortex®-M0	16	–	0x0A471193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Reel
CY8C4014LQI-421	●	●	●	QFN	13	Cortex®-M0	16	–	0x0A461193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Tray
CY8C4014LQI-421T	●	●	●	QFN	13	Cortex®-M0	16	–	0x0A461193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Reel
CY8C4014LQI-422	●	●	●	QFN	20	Cortex®-M0	16	–	0x0A481193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Tray
CY8C4014LQI-422KT	●	●	●	QFN	20	Cortex®-M0	16	–	0x0A481193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Tray
CY8C4014LQI-422T	●	●	●	QFN	20	Cortex®-M0	16	–	0x0A481193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Reel
CY8C4014LQIW-412	●	●	–	QFN	20	Cortex®-M0	16	–	0x0A471193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Tray
CY8C4014LQIW-422	●	●	●	QFN	20	Cortex®-M0	16	–	0x0A481193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Tray
CY8C4014PVI-412	●	●	–	SOP	20	Cortex®-M0	16	–	0x0A54119A	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Tube
CY8C4014PVI-422	●	●	●	SOP	20	Cortex®-M0	16	–	0x0A55119A	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Tube
CY8C4014SXI-420	●	●	●	SOP	5	Cortex®-M0	16	–	0x0A53119A	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Tube
CY8C4014SXI-420T	●	●	●	SOP	5	Cortex®-M0	16	–	0x0A53119A	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Reel
CY8C4014SXI-421	●	●	●	SOP	13	Cortex®-M0	16	–	0x0A441193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Tube
CY8C4014SXI-421T	●	●	●	SOP	13	Cortex®-M0	16	–	0x0A441193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Reel
CY8C4014SXIW-421	●	●	●	SOIC	13	Cortex®-M0	16	–	0x0A441193	16	–	2	–	85	5.5	-40	1.7	–	–	1	1	–	–	1	–	–	–	–	–	–	–	Tube

Industrial PSoC™ 4000

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/ Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4000 DS-Series																																
CY8C4045FNI-DS402T	●	●	–	WLCSP	21	Cortex®-M0	48	–	–	32	–	4	–	85	5.5	-40	1.7	–	–	2	4	8	–	3	–	8	–	–	–	–	–	–	Reel
CY8C4045PVI-DS402	●	●	–	SOP	24	Cortex®-M0	48	–	–	32	–	4	–	85	5.5	-40	1.7	–	–	2	4	8	–	3	–	8	–	–	–	–	–	–	Tube
PSoC™ 4000 S-Series																																
CY8C4024AXI-S402	●	●	–	QFP	27	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4024AXI-S412	●	●	●	QFP	27	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4024AZI-S403	●	●	–	QFP	36	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4024AZI-S403T	●	●	–	QFP	36	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel
CY8C4024AZI-S413	●	●	●	QFP	36	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4024AZI-S413T	●	●	●	QFP	36	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel
CY8C4024AZQ-S413	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 1 msps)	–	16		2	●	105	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	PSoC™ 4	–	–	Tray
CY8C4024FNI-S402	●	●	–	WLCSP	21	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	–
CY8C4024FNI-S402T	●	●	–	WLCSP	21	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Reel
CY8C4024FNI-S412	●	●	●	WLCSP	21	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	–
CY8C4024FNI-S412T	●	●	●	WLCSP	21	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Reel
CY8C4024LQI-S401	●	●	–	QFN	19	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Tray
CY8C4024LQI-S401KT	●	●	–	QFN	19	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Tray
CY8C4024LQI-S402	●	●	–	QFN	27	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4024LQI-S403	●	●	–	QFN	34	Cortex®-M0+	24	–	0x1914	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4024LQI-S403T	●	●	–	QFN	34	Cortex®-M0+	24	–	0x1914	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel
CY8C4024LQI-S411	●	●	●	QFN	19	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Tray
CY8C4024LQI-S412	●	●	●	QFN	27	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4024LQI-S412T	●	●	●	QFN	27	Cortex®-M0+	24	–	–	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel
CY8C4024LQI-S413	●	●	●	QFN	34	Cortex®-M0+	24	–	0x1915	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4024LQI-S413T	●	●	●	QFN	34	Cortex®-M0+	24	–	0x1915	16		2	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel
CY8C4025AXI-S402	●	●	–	QFP	27	Cortex®-M0+	24	–	–	32		4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4025AXI-S412	●	●	●	QFP	27	Cortex®-M0+	24	–	–	32		4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4025AZI-S403	●	●	–	QFP	36	Cortex®-M0+	24	–	–	32		4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4025AZI-S403T	●	●	–	QFP	36	Cortex®-M0+	24	–	–	32		4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel

Industrial PSoC™ 4000

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/ Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4000 S-Series																																
CY8C4025AZI-S413	●	●	●	QFP	36	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4025AZI-S413T	●	●	●	QFP	36	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel
CY8C4025AZQ-S403	●	●	–	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 1 msps)	–	32	–	4	●	105	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	PSoC™ 4	–	–	Tray
CY8C4025AZQ-S413	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 1 msps)	–	32	–	4	●	105	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	PSoC™ 4	–	–	Tray
CY8C4025FNI-S402	●	●	–	WLCSP	21	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	–
CY8C4025FNI-S402T	●	●	–	WLCSP	21	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Reel
CY8C4025FNI-S412	●	●	●	WLCSP	21	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	–
CY8C4025FNI-S412T	●	●	●	WLCSP	21	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Reel
CY8C4025LQI-S401	●	●	–	QFN	19	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Tray
CY8C4025LQI-S402	●	●	–	QFN	27	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4025LQI-S402T	●	●	–	QFN	27	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel
CY8C4025LQI-S403	●	●	–	QFN	34	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4025LQI-S411	●	●	●	QFN	19	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Tray
CY8C4025LQI-S412	●	●	●	QFN	27	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4025LQI-S412T	●	●	●	QFN	27	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel
CY8C4025LQI-S413	●	●	●	QFN	34	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4045AZI-S413	●	●	●	QFP	36	Cortex®-M0+	48	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4045AZI-S413T	●	●	●	QFP	36	Cortex®-M0+	48	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel
CY8C4045FNI-S412	●	●	●	WLCSP	21	Cortex®-M0+	48	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	–
CY8C4045FNI-S412T	●	●	●	WLCSP	21	Cortex®-M0+	48	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Reel
CY8C4045LQI-S411	●	●	●	QFN	19	Cortex®-M0+	48	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Tray
CY8C4045LQI-S412	●	●	●	QFN	27	Cortex®-M0+	48	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4045LQI-S412T	●	●	●	QFN	27	Cortex®-M0+	48	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Reel
CY8C4045LQI-S413	●	●	●	QFN	34	Cortex®-M0+	48	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray

Industrial PSoC™ 4100

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/ Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4100 Series																																
CY8C4124AXI-443	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	Tray
CY8C4124AXI-443T	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	Reel
CY8C4124AXI5-443	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	Tray
CY8C4124AXQ-443	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	●	105	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	Tray
CY8C4124AZI-443	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	Tray
CY8C4124LQI-443	●	●	●	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041C1193	16	4	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	Tray
CY8C4124LQI-443T	●	●	●	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041C1193	16	4	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	Reel
CY8C4124LQQ-443	●	●	●	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04161193	16	4	4	●	105	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	Tray
CY8C4124PVI-432	●	●	–	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04101193	16	4	4	–	85	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	Tube
CY8C4124PVI-432T	●	●	–	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04101193	16	4	4	–	85	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	Reel
CY8C4124PVI-442	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04111193	16	4	4	●	85	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	Tube
CY8C4124PVI-442T	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04111193	16	4	4	●	85	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	Reel
CY8C4124PVI5-442	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04111193	16	4	4	●	85	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	Tube
CY8C4124PVQ-432	●	●	–	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04101193	16	4	4	–	105	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	Tube
CY8C4124PVQ-442	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04111193	16	4	4	●	105	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	Tube
CY8C4125AXI-473	●	●	–	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041B1193	32	4	4	–	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	Tray
CY8C4125AXI-483	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04161193	32	–	4	●	85	5.5	-40	1.7	–	1	2	4	–	2	2	–	–	–	–	–	–	–	Tray
CY8C4125AXI-483T	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04161193	32	–	4	●	85	5.5	-40	1.7	–	1	2	4	–	2	2	–	–	–	–	–	–	–	Reel
CY8C4125AXQ-473	●	●	–	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041B1193	32	4	4	–	105	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	Tray
CY8C4125AXQ-483	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041C1193	32	–	4	●	105	5.5	-40	1.7	–	1	2	4	–	2	2	–	–	–	–	–	–	–	Tray
CY8C4125AZI-473	●	●	–	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041B1193	32	4	4	–	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	Tray
CY8C4125AZI-483	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04261193	32	4	4	●	85	5.5	-40	1.7	–	1	2	4	–	2	2	–	–	–	–	–	–	–	Tray
CY8C4125LQI-483	●	●	●	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04171193	32	–	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	Tray
CY8C4125LQI-483T	●	●	●	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04171193	32	–	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	Reel
CY8C4125LQQ-483	●	●	●	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04171193	32	–	4	●	105	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	–	–	–	–	Tray
CY8C4125PVI-482	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04121193	32	–	4	●	85	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	Tube
CY8C4125PVI-482T	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04121193	32	–	4	●	85	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	Reel
CY8C4125PVQ-482	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04121193	32	–	4	●	105	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	–	–	–	–	Tube

Industrial PSoC™ 4100

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/ Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4100 M-Series																																
CY8C4125AXI-M445	●	●	●	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1104	32	–	4	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4125AXI-M445T	●	●	●	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1104	32	–	4	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Reel
CY8C4125AZI-M433	●	●	–	QFP	38	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1100	32	–	4	–	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4125AZI-M443	●	●	●	QFP	38	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1101	32	–	4	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4125AZI-M445	●	●	●	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1102	32	–	4	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4125LTI-M445	●	●	●	QFN	55	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1103	32	–	4	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4126AXI-M443	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	–	2	4	–	–	–	–	–	–	–	Tray
CY8C4126AXI-M443T	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	–	2	4	–	–	–	–	–	–	–	Reel
CY8C4126AXI-M445	●	●	●	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x110A	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4126AZI-M443	●	●	●	QFP	38	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1105	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4126AZI-M445	●	●	●	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1106	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4126AZI-M475	●	●	–	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1107	64	–	8	–	85	5.5	-40	1.7	–	2	2	8	8	4	4	–	–	–	–	–	–	–	Tray
CY8C4126LTI-M445	●	●	●	QFN	55	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1108	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4126LTI-M475	●	●	–	QFN	55	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1109	64	–	8	–	85	5.5	-40	1.7	–	2	2	8	8	4	4	–	–	–	–	–	–	–	Tray
CY8C4127AXI-M485	●	●	●	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x110E	128	–	16	●	85	5.5	-40	1.7	–	2	2	8	8	4	4	–	–	–	–	–	–	–	Tray
CY8C4127AZI-M475	●	●	–	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x110C	128	–	16	–	85	5.5	-40	1.7	–	2	2	8	8	4	4	–	–	–	–	–	–	–	Tray
CY8C4127AZI-M485	●	●	●	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x110D	128	–	16	●	85	5.5	-40	1.7	–	2	2	8	8	4	4	–	–	–	–	–	–	–	Tray
CY8C4127LTI-M475	●	●	●	QFN	55	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x110B	128	–	16	●	85	5.5	-40	1.7	–	2	2	8	8	4	4	–	–	–	–	–	–	–	Tray
CYSHM35925I-M068LTIT	●	●	–	QFN	55	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1111	128	–	16	●	85	5.5	-40	1.7	–	2	2	8	8	2	4	–	–	–	–	–	–	–	Reel
PSoC™ 4100 PS-Series																																
CY8C4125AZI-PS423	●	●	●	QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	●	85	5.5	-40	1.7	–	2	2	8	8	4	3	–	8	1	–	–	–	–	–	Tray
CY8C4125FNI-PS423T	●	●	●	WLCSP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	●	85	5.5	-40	1.7	–	2	2	8	8	4	3	–	8	1	–	–	–	–	–	Reel
CY8C4125LQI-PS423	●	●	●	QFN	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	●	85	5.5	-40	1.7	–	2	2	8	8	4	3	–	8	1	–	–	–	–	–	Tray
CY8C4125PVI-PS421	●	●	●	SOP	19	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	–	85	5.5	-40	1.7	–	2	2	8	8	4	3	–	8		–	–	–	–	–	Tube
CY8C4145AZI-PS423	●	●	●	QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	●	85	5.5	-40	1.7	–	2	2	8	8	4	3	–	8	1	–	–	–	–	–	Tray
CY8C4145AZI-PS433	●	●	●	QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	●	85	5.5	-40	1.7	–	2	2	8	8	4	3	–	8	1	–	–	–	–	–	Tray
CY8C4145FNI-PS423T	●	●	●	WLCSP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	●	85	5.5	-40	1.7	–	2	2	8	8	4	3	–	8	1	–	–	–	–	–	Reel
CY8C4145FNI-PS433T	●	●	●	WLCSP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	●	85	5.5	-40	1.7	–	2	2	8	8	4	3	–	8	1	–	–	–	–	–	Reel

Industrial PSoC™ 4100

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and S| ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/ Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4100 PS-Series																																	
CY8C4145FNQ-PS423T	●	●	●	WLCSP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	●	105	5.5	-40	1.7	–	2	2	8	8	4	3	–	8	1	–	–	–	–	–	Reel
CY8C4145FNQ-PS433T	●	●	●	WLCSP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	●	85	5.5	-40	1.7	–	2	2	8	8	4	3	–	8	1	–	–	–	–	–	Reel
CY8C4145LQI-PS423	●	●	●	QFN	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	●	85	5.5	-40	1.7	–	2	2	8	8	4	3	–	8	1	–	–	–	–	–	Tray
CY8C4145LQI-PS433	●	●	●	QFN	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	●	85	5.5	-40	1.7	–	2	2	8	8	4	3	–	8	1	–	–	–	–	–	Tray
CY8C4145PVI-PS421	●	●	●	SOP	19	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	–	85	5.5	-40	1.7	–	2	2	8	8	4	3	–	8	–	–	–	–	–	–	Tube
CY8C4145PVI-PS431	●	●	●	SOP	19	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	–	85	5.5	-40	1.7	–	2	2	8	8	4	3	–	8	–	–	–	–	–	–	Tube
CY8C4724FNI-S402T	●	●	–	WLCSP	21	Cortex®-M0+	24	–	–	16	–	2	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	–	–	–	–	–	–	–	Reel
CY8C4724LQI-S401	●	●	–	QFN	19	Cortex®-M0+	24	–	–	16	–	2	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	–	–	–	–	–	–	–	Tray
CY8C4725FNI-S402T	●	●	–	WLCSP	21	Cortex®-M0+	24	–	–	32	–	4	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	–	–	–	–	–	–	–	Reel
CY8C4725LQI-S401	●	●	–	QFN	19	Cortex®-M0+	24	–	–	32	–	4	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	–	–	–	–	–	–	–	Tray
CY8C4744AZI-S403	●	●	–	QFP	36	Cortex®-M0+	48	–	–	32	–	2	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	–	–	–	–	–	–	–	Tray
CY8C4744FNI-S402T	●	●	–	WLCSP	21	Cortex®-M0+	48	–	–	16	–	2	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	–	–	–	–	–	–	–	Reel
CY8C4744LQI-S401	●	●	–	QFN	19	Cortex®-M0+	48	–	–	16	–	2	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	–	–	–	–	–	–	–	Tray
CY8C4745AZI-S403	●	●	–	QFP	36	Cortex®-M0+	48	–	–	32	–	4	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Tray
CY8C4745AZI-S413	●	●	●	QFP	36	Cortex®-M0+	48	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	–	Tray
CY8C4745FNI-S402T	●	●	–	WLCSP	21	Cortex®-M0+	48	–	–	32	–	4	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Reel
CY8C4745FNI-S412T	●	●	●	WLCSP	21	Cortex®-M0+	48	–	–	32	–	4	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	–	–	–	–	–	–	–	Reel
CY8C4745LQI-S401	●	●	–	QFN	19	Cortex®-M0+	48	–	–	32	–	4	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	–	–	–	–	–	–	–	Tray
CY8C4745LQI-S411	●	●	●	QFN	19	Cortex®-M0+	48	–	–	32	–	4	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	–	Tray
PSoC™ 4100 S-Series																																	
CY8C4124AZI-S413	●	●	●	QFP	36	Cortex®-M0+	24	–	–	16		4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4124AZI-S413T	●	●	●	QFP	36	Cortex®-M0+	24	–	–	16		4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4124AZI-S433	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	16		4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4124AZI-S433T	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	16		4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4124FNI-S403	●	●	–	WLCSP	31	Cortex®-M0+	24	–	–	16		4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	8	–	–	–	–	–	–	–
CY8C4124FNI-S403T	●	●	–	WLCSP	31	Cortex®-M0+	24	–	–	16		4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	8	–	–	–	–	–	–	Reel
CY8C4124FNI-S413	●	●	●	WLCSP	31	Cortex®-M0+	24	–	–	16		4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	–
CY8C4124FNI-S413T	●	●	●	WLCSP	31	Cortex®-M0+	24	–	–	16		4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel

Industrial PSoC™ 4100

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and S| ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/ Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4100 S-Series																																	
CY8C4124FNI-S433	●	●	●	WLCSP	31	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	16		4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	–
CY8C4124FNI-S433T	●	●	●	WLCSP	31	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	16	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4124LQI-S412	●	●	●	QFN	27	Cortex®-M0+	24	–	–	16	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4124LQI-S412T	●	●	●	QFN	27	Cortex®-M0+	24	–	–	16	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4124LQI-S413	●	●	●	QFN	34	Cortex®-M0+	24	–	–	16	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4124LQI-S413T	●	●	●	QFN	34	Cortex®-M0+	24	–	–	16	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4124LQI-S432	●	●	●	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	16	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4124LQI-S432T	●	●	●	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	16	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4124LQI-S433	●	●	●	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	16	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4124LQI-S433T	●	●	●	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	16	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4125AXI-S423	●	●	–	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4125AXI-S433	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4125AZI-S413	●	●	●	QFP	36	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4125AZI-S413T	●	●	●	QFP	36	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4125AZI-S423	●	●	–	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4125AZI-S423T	●	●	–	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4125AZI-S433	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4125AZI-S433KT	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4125AZI-S433T	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4125AZQ-S433	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	105	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4125FNI-S413	●	●	●	WLCSP	31	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	–
CY8C4125FNI-S413T	●	●	●	WLCSP	31	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4125FNI-S423	●	●	–	WLCSP	31	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	–
CY8C4125FNI-S423T	●	●	–	WLCSP	31	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4125FNI-S433	●	●	●	WLCSP	31	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	–
CY8C4125FNI-S433T	●	●	●	WLCSP	31	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4125LQI-S412	●	●	●	QFN	27	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4125LQI-S412T	●	●	●	QFN	27	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel

Industrial PSoC™ 4100

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/ Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4100 S-Series																																
CY8C4125LQI-S413	●	●	●	QFN	34	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4125LQI-S413KG	●	●	●	QFN	34	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4125LQI-S413T	●	●	●	QFN	34	Cortex®-M0+	24	–	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4125LQI-S422	●	●	–	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4125LQI-S422T	●	●	–	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4125LQI-S423	●	●	–	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4125LQI-S423T	●	●	–	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4125LQI-S432	●	●	●	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4125LQI-S432T	●	●	●	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4125LQI-S433	●	●	●	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Tray
CY8C4125LQI-S433T	●	●	●	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4125LQQ-S432	●	●	●	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	32	–	4	●	105	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	PSoC™ 4	–	–	Tray
CY8C4126AXI-S423	●	●	–	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	Tray
CY8C4126AXI-S433	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	Tray
CY8C4126AXI-S443	●	●	–	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray
CY8C4126AXI-S445	●	●	–	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray
CY8C4126AXI-S453	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray
CY8C4126AXI-S455	●	●	●	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray
CY8C4126AXQ-S433	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	64	–	8	●	105	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	PSoC™ 4	–	–	Tray
CY8C4126AZI-S423	●	●	–	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	Tray
CY8C4126AZI-S423T	●	●	–	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	Reel
CY8C4126AZI-S433	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	Tray
CY8C4126AZI-S433T	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	Reel
CY8C4126AZI-S445	●	●	–	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray
CY8C4126AZI-S455	●	●	●	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray
CY8C4126AZQ-S423	●	●	–	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	64	–	8	●	105	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	Tray
CY8C4126AZQ-S433	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	64	–	8	●	105	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	Tray
CY8C4127AXI-S443	●	●	–	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray

Industrial PSoC™ 4100

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and S| ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/ Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4100 S-Series																																	
CY8C4127AXI-S445	●	●	–	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray
CY8C4127AXI-S453	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray
CY8C4127AXI-S455	●	●	●	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray
CY8C4127AZI-S443	●	●	–	QFP	38	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray
CY8C4127AZI-S445	●	●	–	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray
CY8C4127AZI-S453	●	●	–	QFP	38	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray
CY8C4127AZI-S455	●	●	●	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray
CY8C4127AZQ-S445	●	●	–	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	128	–	16	●	105	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray
CY8C4127AZQ-S455	●	●	●	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	–	128	–	16	●	105	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray
CY8C4145AXI-S423	●	●	–	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	Tray
CY8C4145AXI-S433	●	●	●	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	Tray
CY8C4145AXQ-S433	●	●	●	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	●	105	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	PSoC™ 4	–	–	Tray
CY8C4145AZI-S423	●	●	–	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	Tray
CY8C4145AZI-S423T	●	●	–	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4145AZQ-S433	●	●	●	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	32	–	4	●	105	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	Tray
CY8C4146AXI-S423	●	●	–	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	Tray
CY8C4146AXI-S433	●	●	●	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	Tray
CY8C4146AXI-S443	●	●	–	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray
CY8C4146AXI-S445	●	●	–	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray
CY8C4146AXI-S453	●	●	●	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray
CY8C4146AXI-S455	●	●	●	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray
CY8C4146AXQ-S423	●	●	–	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	105	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	PSoC™ 4	–	–	Tray
CY8C4146AXQ-S433	●	●	●	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	105	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	PSoC™ 4	–	–	Tray
CY8C4146AZI-S423	●	●	–	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	Tray
CY8C4146AZI-S423T	●	●	–	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4146AZI-S433	●	●	●	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–	Tray
CY8C4146AZI-S433T	●	●	●	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	4	●	85	5.5	-40	1.7	–	1	2	5	–	2	2	–	16	–	–	–	–	–	–	Reel
CY8C4146AZI-S445	●	●	–	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	–	Tray

Industrial PSoC™ 4100

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/ Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4100 S-Series																																
CY8C4146AZI-S453	●	●	●	QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4146AZI-S455	●	●	●	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4146AZI-S463	●	●	–	QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	1	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4146AZQ-S423	●	●	–	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	105	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	Tray
CY8C4146AZQ-S433	●	●	●	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	105	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	Tray
CY8C4146AZQ-S445	●	●	–	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	105	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4146AZQ-S455	●	●	●	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	105	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4146FNI-S423	●	●	–	WLCSP	31	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–
CY8C4146FNI-S423T	●	●	–	WLCSP	31	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	Reel
CY8C4146FNI-S433	●	●	●	WLCSP	31	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	–
CY8C4146FNI-S433T	●	●	●	WLCSP	31	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	Reel
CY8C4146FNI-S443T	●	●	●	WLCSP	31	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	Reel
CY8C4146LQI-S422	●	●	–	QFN	27	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	Tray
CY8C4146LQI-S422T	●	●	–	QFN	27	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	Reel
CY8C4146LQI-S423	●	●	–	QFN	34	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	Tray
CY8C4146LQI-S423T	●	●	–	QFN	34	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	Reel
CY8C4146LQI-S432	●	●	●	QFN	27	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	Tray
CY8C4146LQI-S432T	●	●	●	QFN	27	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	Reel
CY8C4146LQI-S433	●	●	●	QFN	34	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	Tray
CY8C4146LQI-S433T	●	●	●	QFN	34	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	85	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	–	–	Reel
CY8C4146LQQ-S422	●	●	–	QFN	27	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	105	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	PSoC™ 4	–	–	Tray
CY8C4146LQQ-S432	●	●	●	QFN	27	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	105	5.5	-40	1.7	–	1	2	5	–	2	3	–	16	–	–	–	PSoC™ 4	–	–	Tray
CY8C4147AXI-S443	●	●	–	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4147AXI-S445	●	●	–	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4147AXI-S453	●	●	●	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4147AXI-S455	●	●	●	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	128	–		●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4147AXI-S465	●	●	–	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	128	–	16	●	85	5.5	-40	1.7	1	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4147AXI-S475	●	●	●	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	128	–	16	●	85	5.5	-40	1.7	1	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4147AZI-S443	●	●	–	QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray

Industrial PSoC™ 4100

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/ Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4100 S-Series																																
CY8C4147AZI-S445	●	●	–	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4147AZI-S453	●	●	●	QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4147AZI-S455	●	●	●	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4147AZI-S465	●	●	–	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	128	–	16	●	85	5.5	-40	1.7	1	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4147AZI-S475	●	●	●	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4147AZQ-S445	●	●	–	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	128	–	16	●	105	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4147AZQ-S455	●	●	●	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	128	–	16	●	105	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4147AZQ-S465	●	●	–	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	128	–	16	●	105	5.5	-40	1.7	1	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray
CY8C4147AZQ-S475	●	●	●	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	–	128	–	16	●	105	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	–	–	–	–	Tray

Industrial PSoC™ 4200

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/ Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4200 Series																																
CY8C4244AXQ-443	●	●	●	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04FA1193	16	4	4	●	105	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	2	–	–	–	–	Tray
CY8C4244AZI-443	●	●	●	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04DA1193	16	4	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	2	–	–	–	–	Tray
CY8C4244FNI-443T	●	●	●	WLCSP	31	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	–	16	4	4	●	85	5.5	-40	1.7	–	1	2	4	–	2	2	–	–	–	2	–	–	–	–	Reel
CY8C4244LQI-443	●	●	●	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04F61193	16	4	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	2	–	–	–	–	Tray
CY8C4244LQQ-443	●	●	●	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04F61193	16	4	4	●	105	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	2	–	–	–	–	Tray
CY8C4244PVI-442	●	●	●	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04F11193	16	4	4	●	85	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	2	–	–	–	–	Tube
CY8C4244PVQ-432	●	●	–	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04F01193	16	4	4	–	105	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	2	–	–	–	–	Tube
CY8C4244PVQ-442	●	●	●	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04F11193	16	4	4	●	105	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	2	–	–	–	–	Tube
CY8C4245AXI-473	●	●	–	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04FB1193	32	4	4	–	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	4	–	–	–	–	Tray
CY8C4245AXI-483	●	●	●	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04C81193	32	–	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	4	–	–	–	–	Tray
CY8C4245AXQ-473	●	●	–	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04FB1193	32	4	4	–	105	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	4	–	–	–	–	Tray
CY8C4245AXQ-483	●	●	●	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04C81193	32	–	4	●	105	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	4	–	–	–	–	Tray
CY8C4245AZI-473	●	●	–	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04DB1193	32	4	4	–	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	4	–	–	–	–	Tray
CY8C4245AZI-483	●	●	●	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04C81193	32	–	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	4	–	–	–	–	Tray
CY8C4245FNI-483T	●	●	●	WLCSP	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04E81193	32	–	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	4	–	–	–	–	Reel
CY8C4245LQI-483	●	●	●	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04B61193	32	–	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	4	–	–	–	–	Tray
CY8C4245LQI-483T	●	●	●	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04B61193	32	–	4	●	85	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	4	–	–	–	–	Reel
CY8C4245LQQ-483	●	●	●	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04B61193	32	–	4	●	105	5.5	-40	1.7	–	2	2	4	–	2	2	–	–	–	4	–	–	–	–	Tray
CY8C4245PVI-482	●	●	●	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04A61193	32	–	4	●	85	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	4	–	–	–	–	Tube
CY8C4245PVQ-482	●	●	●	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x04A61193	32	–	4	●	105	5.5	-40	1.7	–	1	2	4	–	1	2	–	–	–	4	–	–	–	–	Tube
PSoC™ 4200 DS-Series																																
CY8C4245FNI-DS402T	●	●	–	WLCSP	21	Cortex®-M0	48	–	–	32	–	4	–	85	5.5	-40	1.7	–	–	2	4	8	–	3	–	–	–	4	–	–	–	–	Reel
CY8C4246FNI-DS402T	●	●	–	WLCSP	21	Cortex®-M0	48	–	–	64	–	8	–	85	5.5	-40	1.7	–	–	2	4	8	–	3	–	–	–	4	–	–	–	–	Reel

Industrial PSoC™ 4200

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/ Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4200 L-Series																																
CY8C4246AZI-L423	●	●	●	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100211A0	64		8	●	85	5.5	-40	1.7	–	1	2	8	32	2	3	2	–	–	8	–	–	●	–	Tray
CY8C4246AZI-L423T	●	●	●	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100211A0	64		8	●	85	5.5	-40	1.7	–	1	2	8	32	2	3	2	–	–	8	–	–	●	–	Reel
CY8C4246AZI-L433	●	●	–	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100011A0	64		8	–	85	5.5	-40	1.7	–	1	2	8	32	2	3	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4246AZI-L433T	●	●	–	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100011A0	64	–	8	–	85	5.5	-40	1.7	–	1	2	8	32	2	3	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Reel
CY8C4246AZI-L435	●	●	–	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100111A0	64	–	8	–	85	5.5	-40	1.7	–	1	2	8	32	2	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4246AZI-L445	●	●	●	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100311A0	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	32	2	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4246LTI-L445	●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100411A0	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	32	2	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4247AZI-L423	●	●	●	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100511A0	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	32	2	3	2	–	–	8	–	–	●	–	Tray
CY8C4247AZI-L423T	●	●	●	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100511A0	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	32	2	3	2	–	–	8	–	–	●	–	Reel
CY8C4247AZI-L433	●	●	–	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101511A0	128	–	16	–	85	5.5	-40	1.7	–	1	2	8	32	2	3	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4247AZI-L433T	●	●	–	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101511A0	128	–	16	–	85	5.5	-40	1.7	–	1	2	8	32	2	3	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Reel
CY8C4247AZI-L445	●	●	●	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100611A0	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	32	2	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4247AZI-L475	●	●	●	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100811A0	128	–	16	–	85	5.5	-40	1.7	–	2	2	8	32	4	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4247AZI-L485	●	●	●	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100B11A0	128	–	16	●	85	5.5	-40	1.7	2	2	2	8	32	4	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4247BZI-L479	●	●	●	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100A11A0	128	–	16	–	85	5.5	-40	1.7	–	4	2	8	32	4	2	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4247BZI-L479T	●	●	●	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100A11A0	128	–	16	–	85	5.5	-40	1.7	–	4	2	8	32	4	2	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Reel
CY8C4247BZI-L489	●	●	●	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100D11A0	128	–	16	●	85	5.5	-40	1.7	2	4	2	8	32	4	2	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4247LTI-L445	●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100711A0	128	–	16	●	85	5.5	-40	1.7	–	1	2	8	32	2	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4247LTI-L475	●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100911A0	128	–	16	–	85	5.5	-40	1.7	–	2	2	8	32	4	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4247LTI-L485	●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100C11A0	128	–	16	●	85	5.5	-40	1.7	2	2	2	8	32	4	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4248AZI-L475	●	●	●	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100E11A0	256	–	32	–	85	5.5	-40	1.7	–	2	2	8	32	4	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4248AZI-L485	●	●	●	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101111A0	256	–	32	●	85	5.5	-40	1.7	2	2	2	8	32	4	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4248BZI-L469	●	●	–	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101711A0	256	–	32	●	85	5.5	-40	1.7	–	4	2	8	32	4	4	2	–	–	8	–	–	●	–	Tray
CY8C4248BZI-L479	●	●	●	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101011A0	256	–	32	–	85	5.5	-40	1.7	–	4	2	8	32	4	2	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4248BZI-L489	●	●	●	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101311A0	256	–	32	●	85	5.5	-40	1.7	2	4	2	8	32	4	2	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4248LTI-L475	●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x100F11A0	256	–	32	–	85	5.5	-40	1.7	–	2	2	8	32	4	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4248LTI-L485	●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101211A0	256	–	32	●	85	5.5	-40	1.7	2	2	2	8	32	4	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray
CY8C4248LTQ-L485	●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x101211A0	256	–	32	●	85	5.5	-40	1.7	2	2	2	8	32	4	4	2	–	–	8	2	–	●	USB 2.0 full-speed client contr.	Tray

Industrial PSoC™ 4200

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and Si ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/ Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4200 M-Series																																
CY8C4245AXI-M445	●	●	●	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1124	32	–	4	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	4	–	–	–	–	Tray
CY8C4245AZI-M433	●	●	–	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1120	32	–	4	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	4	–	–	–	–	Tray
CY8C4245AZI-M443	●	●	●	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1121	32	–	4	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	4	–	–	–	–	Tray
CY8C4245AZI-M445	●	●	●	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1122	32	–	4	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	4	–	–	–	–	Tray
CY8C4245LTI-DM405	●	●	–	QFN	55	Cortex®-M0	48	–	0x1123	32	–	4	–	85	5.5	-40	1.7	–	–	2	8	8	–	4	–	–	–	4	–	–	–	–	Tray
CY8C4245LTI-DM405T	●	●	–	QFN	55	Cortex®-M0	48	–	0x1123	32	–	4	–	85	5.5	-40	1.7	–	–	2	8	8	–	4	–	–	–	4	–	–	–	–	Reel
CY8C4245LTI-M445	●	●	●	QFN	55	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1123	32	–	4	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	4	–	–	–	–	Tray
CY8C4246AXI-M445	●	●	●	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x112A	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	4	–	–	–	–	Tray
CY8C4246AZI-M443	●	●	●	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1125	64	–	8	●	85	5.5	-40	1.7	–	1	2	8		2	4	–	–	–	4	–	–	–	–	Tray
CY8C4246AZI-M445	●	●	●	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1126	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	4	–	–	–	–	Tray
CY8C4246AZI-M475	●	●	–	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1127	64	–	8	–	85	5.5	-40	1.7	–	2	2	8	8	4	4	–	–	–	4	–	–	–	–	Tray
CY8C4246AZQ-M443	●	●	●	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	–	64	–	8	●	105	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	4	–	–	–	–	Tray
CY8C4246LTI-DM405	●	●	–	QFN	55	Cortex®-M0	48	–	0x1128	64	–	8	–	85	5.5	-40	1.7	–	–	2	8	8	–	4	–	–	–	4	–	–	–	–	Tray
CY8C4246LTI-M445	●	●	●	QFN	55	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1128	64	–	8	●	85	5.5	-40	1.7	–	1	2	8	8	2	4	–	–	–	4	–	–	–	–	Tray
CY8C4246LTI-M475	●	●	–	QFN	55	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x1129	64	–	8	–	85	5.5	-40	1.7	–	2	2	8	8	4	4	–	–	–	4	–	–	–	–	Tray
CY8C4247AXI-M485	●	●	●	FP	48	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x112E	128	–	16	●	85	5.5	-40	1.7	2	2	2	8	–	4	4	–	–	–	4	–	–	–	–	Tray
CY8C4247AXQ-M485	●	●	●	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	–	128	–	16	●	85	5.5	-40	1.7	2	2	2	8	8	4	4	–	–	–	4	–	–	–	–	Tray
CY8C4247AZI-M475	●	●	–	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x112C	128	–	16	–	85	5.5	-40	1.7	–	2	2	8	8	4	4	–	–	–	4	–	–	–	–	Tray
CY8C4247AZI-M475T	●	●	–	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	0x112C	128	–	16	–	85	5.5	-40	1.7	–	2	2	8	8	4	4	–	–	–	4	–	–	–	–	Reel
CY8C4247AZI-M485	●	●	●	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 806 ksps)	0x112D	128	–	16	●	85	5.5	-40	1.7	2	2	2	8	8	4	4	–	–	–	4	–	–	–	–	Tray
CY8C4247AZQ-M485	●	●	●	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	–	128	–	16	●	105	5.5	-40	1.7	2	2	2	8	8	4	4	–	–	–	4	–	–	–	–	Tray
CY8C4247AZQ-M485T	●	●	●	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msps)	–	128	–	16	●	105	5.5	-40	1.7	2	2	2	8	8	4	4	–	–	–	4	–	–	–	–	Reel
CY8C4247LTI-M475	●	●	●	QFN	48	Cortex®-M0	48	SAR (1, 12-bit @ 806 ksps)	0x112B	128	–	16	●	85	5.5	-40	1.7	–	2	2	8	8	4	4	–	–	–	4	–	–	–	–	Tray
CY8C4247LTQ-M475	●	●	–	QFN	48	Cortex®-M0	48	SAR (1, 12-bit @ 806 ksps)	0x112B	128	–	16	–	85	5.5	-40	1.7	–	2	2	8	8	4	4	–	–	–	4	–	–	–	–	Tray

Industrial PSoC™ 4700

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SI ID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/ Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4700 S-Series																																
CY8C4724FNI-S402T	●	●	–	WLCSP	21	Cortex®-M0+	24	–	–	16	–	2	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	–	–	–	–	–	–	Reel
CY8C4724LQI-S401	●	●	–	QFN	19	Cortex®-M0+	24	–	–	16	–	2	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	–	–	–	–	–	–	Tray
CY8C4725FNI-S402T	●	●	–	WLCSP	21	Cortex®-M0+	24	–	–	32	–	4	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	–	–	–	–	–	–	Reel
CY8C4725LQI-S401	●	●	–	QFN	19	Cortex®-M0+	24	–	–	32	–	4	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	–	–	–	–	–	–	Tray
CY8C4744AZI-S403	●	●	–	QFP	36	Cortex®-M0+	48	–	–	32	–	2	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	–	–	–	–	–	–	Tray
CY8C4744FNI-S402T	●	●	–	WLCSP	21	Cortex®-M0+	48	–	–	16	–	2	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	–	–	–	–	–	–	Reel
CY8C4744LQI-S401	●	●	–	QFN	19	Cortex®-M0+	48	–	–	16	–	2	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	–	–	–	–	–	–	Tray
CY8C4745AZI-S403	●	●	–	QFP	36	Cortex®-M0+	48	–	–	32	–	4	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	Tray
CY8C4745AZI-S413	●	●	●	QFP	36	Cortex®-M0+	48	–	–	32	–	4	●	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	16	–	–	–	–	–	Tray
CY8C4745FNI-S402T	●	●	–	WLCSP	21	Cortex®-M0+	48	–	–	32	–	4	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	Reel
CY8C4745FNI-S412T	●	●	●	WLCSP	21	Cortex®-M0+	48	–	–	32	–	4	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	–	–	–	–	–	–	Reel
CY8C4745LQI-S401	●	●	–	QFN	19	Cortex®-M0+	48	–	–	32	–	4	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	–	–	–	–	–	–	Tray
CY8C4745LQI-S411	●	●	●	QFN	19	Cortex®-M0+	48	–	–	32	–	4	–	85	5.5	-40	1.7	–	–	2	5	–	–	2	–	8	–	–	–	–	–	Tray

Industrial PSoC™ 6

CY XX 6 A B C DD E - FF G H I JJ K L

Company ID
- **CY** Cypress

Firmware
- **8C** Standard PSoC™ MCU
- **B0** Secure Boot v1
- **S0** Std. Secure – AWS
- **S1** Std. Secure – Pelion
- **S2** Std. Secure – Alibaba
- **S3** Std. Secure – Google

Architecture
- **6** PSoC™ 6

Line
- **0** Value
- **1** Programmable
- **2** Performance
- **3** Connectivity
- **4** Security

Speed
- **2** 100 MHz
- **3** 150 MHz
- **4** 150/50 MHz

Memory size (Flash/SRAM)
- **0–3** RFU
- **4** 256/128K
- **5** 512/256K
- **6** 512/128K
- **7** 1024/288K
- **8** 1024/512K
- **9** RFU
- **A** 2048/1024K

Package class
- **AZ, AX** TQFP
- **LQ** QFN
- **BZ** BGA
- **FM** M-CSP
- **FN,FD,FT** WLCSP

Temperature range
- **C** Customer
- **I** Industrial
- **Q** Extended Industrial

Core architecture
- **F** Single core
- **D** Dual core

Attribute code
- **F** Single core
- **D** Dual core

Feature code
- **0–9** Feature Set

Pins
- **1** 31–50
- **2** 51–70
- **3** 71–90
- **4** 91–110

Engineering sample (opt.)
- **ES** Engineering samples or not

Die revision (opt.)
- Base
- **A1–A9** Die revision

Tape/Reel shipment (opt.)
- **T** Tape and Reel shipment

Industrial PSoC™ 6

Product type/partnumber	Industrial	Consumer	BLE Maximum Data Rate [Mbps]	BLE Power Output [dBm]	BLE RX Sensitivity [dBm]	BLE Supported Frequency band [GHz]	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Secondary processor type	Cryptographics accelerator	Dedicated ADC (# Max Resolution @ Sample rate)	Dedicated DAC (# Max Resolution @ Sample rate)	Flash [KB]	SRAM [KB]	I²S	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Dedicated comparators	# Dedicated OpAmps	# Dedicated timer/ Counter/PWM blocks	# DMA channels	# Programmable universal digital blocks	# Serial communication blocks (I²C, UART, SPI)	PDM-PCM	Quad-SPI	Smart I/O	FS-USB	Package carrier
PSoC™ 61 Series																																		
CY8C6136FTI-F42T	●	●	–	–	–	–	●	WLCSP	–	Cortex®-M4	150	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	Dual host and device	Reel
CY8C6145AZI-S3F42	●	●	–	–	–	–	●	QFP	64	Cortex®-M4	150	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	–	2	–	12	2	–	6	–	●	8	Dual host and device	Tray
CY8C6145AZI-S3F12	●	●	–	–	–	–	●	QFP	64	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	–	2	–	12	2	–	6	–	●	8	Dual host and device	Tray
CY8C6145AZI-S3F62	●	●	–	–	–	–	–	QFP	64	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	1	2	–	12	2	–	6	–	●	8	Dual host and device	Tray
CY8C614AAZI-S2F14	●	●	–	–	–	–	●	QFP	102	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	–	2048	1024	2	●	85	3.6	-40	1.7	–	2	–	32	62	–	12	2	●	16	Dual host and device	Tray
CY8C6145AZI-S3F02	●	●	–	–	–	–	–	QFP	64	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	–	2	–	12	2	–	6	–	●	8	Dual host and device	Tray
CY8C614ABZI-S2F44	●	●	–	–	–	–	●	BGA	102	Cortex®-M4	150	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	2048	1024	2	●	85	3.6	-40	1.7	–	2	–	32	3	–	13	2	●	16	Dual host and device	Tray
CY8C614AAZI-S2F04	●	●	–	–	–	–	–	QFP	102	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	–	2048	1024	2	●	85	3.6	-40	1.7	–	2	–	32	62	–	13	2	●	16	Dual host and device	Tray
CY8C6145LQI-S3F62	●	●	–	–	–	–	–	QFN	53	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	1	2	–	12	2	–	6	–	●	8	Dual host and device	Tray
CY8C6145LQI-S3F72	●	●	–	–	–	–	●	QFN	53	Cortex®-M4	150	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	1	2	–	12	2	–	6	–	●	8	Dual host and device	Tray
CY8C6148BZI-S2F44	●	●	–	–	–	–	●	BGA	102	Cortex®-M4	150	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	1024	512	2	●	85	3.6	-40	1.7	–	2	–	32	3	–	13	2	●	16	Dual host and device	Tray
CY8C6145LQI-S3F02	●	●	–	–	–	–	–	QFN	53	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	–	2	–	12	2	–	6	–	●	8	Dual host and device	Tray
CY8C6145LQI-S3F12	●	●	–	–	–	–	●	QFN	53	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	–	2	–	12	2	–	6	–	●	8	Dual host and device	Tray
CY8C614AFNI-S2F43T	●	●	–	–	–	–	●	WLCSP	82	Cortex®-M4	150	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	2048	1024	2	●	85	3.6	-40	1.7	–	2	–	32	3	–	13	2	●	16	Dual host and device	Reel
CY8C6148AZI-S2F44	●	●	–	–	–	–	●	QFP	102	Cortex®-M4	150	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	1024	512	2	●	85	3.6	-40	1.7	–	2	–	32	62	–	13	2	●	16	Dual host and device	Tray
CY8C6148FNI-S2F43T	●	●	–	–	–	–	●	WLCSP	82	Cortex®-M4	150	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	1024	512	2	●	85	3.6	-40	1.7	–	2	–	32	3	–	13	2	●	16	Dual host and device	Reel
CY8C614AFNI-S2F03T	●	●	–	–	–	–	–	WLCSP	82	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	–	2048	1024	2	●	85	3.6	-40	1.7	–	2	–	32	3	–	13	2	●	16	Dual host and device	Reel
CY8C614ABZI-S2F04	●	●	–	–	–	–	–	BGA	102	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	–	2048	1024	2	●	85	3.6	-40	1.7	–	2	–	32	3	–	13	2	●	16	Dual host and device	Tray
CY8C6145LQI-S3F42	●	●	–	–	–	–	●	QFN	53	Cortex®-M4	150	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	–	2	–	12	2	–	6	–	●	8	Dual host and device	Tray
CY8C6136BZI-F14	●	●	–	–	–	–	●	BGA	104	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	–	●	16	Dual host and device	Tray
CY8C6137BZI-F54	●	●	–	–	–	–	●	BGA	104	Cortex®-M4	150	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	–	●	16	Dual host and device	Tray
CY8C6117BZI-F34	●	●	–	–	–	–	●	BGA	104	Cortex®-M4	50	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	–	●	16	Dual host and device	Tray
CY8C6116BZI-F54	●	●	–	–	–	–	●	BGA	104	Cortex®-M4	50	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	–	●	16	Dual host and device	Tray
CY8C6117BZI-F34T	●	●	–	–	–	–	●	BGA	104	Cortex®-M4	50	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	2	●	16	Dual host and device	Reel
CY8C6145FNI-S3F41T	●	●	–	–	–	–	●	WLCSP	37	Cortex®-M4	150	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	–	2		12	2	–	6	–	●	8	–	Reel
CY8C6145FNI-S3F71T	●	●	–	–	–	–	●	WLCSP	37	Cortex®-M4	150	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	1	2		12	2	–	6	–	●	8	–	Reel
CY8C6145FNI-S3F11T	●	●	–	–	–	–	●	WLCSP	37	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	–	2		12	2	–	6	–	●	8	–	Reel
CY8C6117FDI-F02T	●	●	–	–	–	–	–	WLCSP	–	Cortex®-M4	50	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2		32	32	–	9	2	●	16	Dual host and device	Reel

Industrial PSoC™ 6

Product type/partnumber	Industrial	Consumer	BLE Maximum Data Rate [Mbps]	BLE Power Output [dBm]	BLE RX Sensitivity [dBm]	BLE Supported Frequency band [GHz]	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Secondary processor type	Cryptographics accelerator	Dedicated ADC (# Max Resolution @ Sample rate)	Dedicated DAC (# Max Resolution @ Sample rate)	Flash [KB]	SRAM [KB]	I²S	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Dedicated comparators	# Dedicated OpAmps	# Dedicated timer/ Counter/PWM blocks	# DMA channels	# Programmable universal digital blocks	# Serial communication blocks (I²C, UART, SPI)	PDM-PCM	Quad-SPI	Smart I/O	FS-USB	Package carrier
PSoC™ 61 Series																																		
CY8C6137FDI-F02T	●	●	–	–	–	–	–	WLCSP	–	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	–	●	16	Dual host and device	Reel
CY8C6136FDI-F42T	●	●	–	–	–	–	●	WLCSP	–	Cortex®-M4	150	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	Dual host and device	Reel
CY8C6145AZI-S3F72	●	●	–	–	–	–	●	QFP	64	Cortex®-M4	150	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	1	2	–	12	2	–	6	–	●	8	Dual host and device	Tray
CY8C6136BZI-F34	●	●	–	–	–	–	●	BGA	104	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	–	●	16	Dual host and device	Tray
CY8C6137BZI-F14	●	●	–	–	–	–	●	BGA	104	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	–	●	16	Dual host and device	Tray
CY8C6137BZI-F34	●	●	–	–	–	–	●	BGA	104	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	–	●	16	Dual host and device	Tray
PSoC™ 62 Series																																		
CY8C6247FDI-D32T	●	●	–	–	–	–	●	WLCSP	–	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	2	●	16	Dual host and device	Reel
CY8C6247FDI-D52T	●	●	–	–	–	–	●	WLCSP	–	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	2	●	16	Dual host and device	Reel
CY8C6248BZI-S2D44	●	●	–	–	–	–	●	BGA	100	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	1024	512	2	●	85	3.6	-40	1.7	–	2	–	32	–	–	–	2	●	16	Dual host and device	Tray
CY8C624ABZI-S2D14	●	●	–	–	–	–	●	BGA	100	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	–	2048	1024	2	●	85	3.6	-40	1.7	–	2	–	32	–	–	–	2	●	16	Dual host and device	Tray
CY8C624ABZI-S2D04	●	●	–	–	–	–	–	BGA	100	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	–	2048	1024	2	●	85	3.6	-40	1.7	–	2	–	32	–	–	–	2	●	16	Dual host and device	Tray
CY8C6248AZI-S2D14	●	●	–	–	–	–	●	QFP	27	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	–	1024	512	2	●	85	3.6	-40	1.7	–	2	–	32	–	–	–	2	●	16	Dual host and device	Tray
CY8C6248AZI-S2D44	●	●	–	–	–	–	●	QFP	–	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	1024	512	2	●	85	3.6	-40	1.7	–	2	–	32	–	–	–	2	●	16	Dual host and device	Tray
CY8C624AAZI-S2D14	●	●	–	–	–	–	●	QFP	–	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	–	2048	1024	2	●	85	3.6	-40	1.7	–	2	–	32	4	–	–	2	●	16	Dual host and device	Tray
CY8C6245AZI-S3D12	●	●	–	–	–	–	●	QFP	64	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	–	2	–	12	2	–	6	–	–	8	Dual host and device	Tray
CY8C6245LQI-S3D62	●	●	–	–	–	–	–	QFN	–	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	1	2	–	12	2	12	6	–	●	8	Dual host and device	Tray
CY8C6245AZI-S3D42	●	●	–	–	–	–	●	QFP	64	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	–	2	–	12	2	–	6	–	–	8	Dual host and device	Tray
CY8C6245LQI-S3D12	●	●	–	–	–	–	●	QFN	–	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	–	2	–	12	2	–	6	–	●	8	Dual host and device	Tray
CY8C6245AZI-S3D62	●	●	–	–	–	–	–	QFP	64	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	1	2	–	12	2	–	6	–	–	8	Dual host and device	Tray
CY8C6245LQI-S3D72	●	●	–	–	–	–	●	QFN	–	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	1	2	–	12	2	–	6	–	●	8	Dual host and device	Tray
CY8C6247BZI-AUD54	●	●	–	–	–	–	●	BGA	104	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	2	●	16	Dual host and device	Tray
CY8C6246BZI-D04	●	●	–	–	–	–	–	BGA	104	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	–	●	16	Dual host and device	Tray
CY8C6247BZI-D54T	●	●	–	–	–	–	●	BGA	104	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	2	●	16	Dual host and device	Reel
CY8C6247BZI-D44T	●	●	–	–	–	–	●	BGA	104	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	Dual host and device	Reel
CY8C6245AZI-S3D02	●	●	–	–	–	–	–	QFP	64	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	–	2	–	12	2	–	6	2	–	8	Dual host and device	Tray
CY8C6245LQI-S3D42	●	●	–	–	–	–	●	QFN	–	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	–	2	–	12	2	–	6	–	●	8	Dual host and device	Tray
CY8C6247BZI-D54	●	●	–	–	–	–	●	BGA	104	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	–	●	16	Dual host and device	Tray

Industrial PSoC™ 6

Product type/partnumber	Industrial	Consumer	BLE Maximum Data Rate [Mbps]	BLE Power Output [dBm]	BLE RX Sensitivity [dBm]	BLE Supported Frequency band [GHz]	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Secondary processor type	Cryptographics accelerator	Dedicated ADC (# Max Resolution @ Sample rate)	Dedicated DAC (# Max Resolution @ Sample rate)	Flash [KB]	SRAM [KB]	I²S	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Dedicated comparators	# Dedicated OpAmps	# Dedicated timer/ Counter/PWM blocks	# DMA channels	# Programmable universal digital blocks	# Serial communication blocks (I²C, UART, SPI)	PDM-PCM	Quad-SPI	Smart I/O	FS-USB	Package carrier
PSoC™ 62 Series																																		
CY8C6245FNI-S3D41T	●	●	–	–	–	–	●	WLCSP	–	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	–	2	–	12	2	–	6	–	●	8	Dual host and device	Reel
CY8C6245FNI-S3D11T	●	●	–	–	–	–	●	WLCSP	–	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	–	2	–	12	2	–	6	–	●	16	Dual host and device	Reel
CY8C6245LQI-S3D02	●	●	–	–	–	–	–	QFN	–	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	–	2	–	12	2	–	6	–	●	8	Dual host and device	Tray
CY8C624ABZI-S2D44	●	●	–	–	–	–	●	BGA	100	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	2048	1024	2	●	85	3.6	-40	1.7	–	2	–	32	4	–	12	2	●	16	Dual host and device	Tray
CY8C6247FDI-D02T	●	●	–	–	–	–	–	WLCSP	–	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	–	●	16	Dual host and device	Reel
CY8C6247BZI-D34	●	●	–	–	–	–	●	BGA	104	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	–	●	16	Dual host and device	Tray
CY8C624AFNI-S2D43T	●	●	–	–	–	–	●	WLCSP	–	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	2048	1024	2	●	85	3.6	-40	1.7	–	2	–	32	–	–	–	2	●	16	Dual host and device	Reel
CY8C624AAZI-S2D44	●	●	–	–	–	–	●	QFP	–	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	2048	1024	2	●	85	3.6	-40	1.7	–	2	–	32	–	–	–	2	●	16	Dual host and device	Tray
CY8C6245AZI-S3D72	●	●	–	–	–	–	●	QFP	64	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	1	2	–	12	2	–	6	–	–	8	Dual host and device	Tray
CY8C6248FNI-S2D43T	●	●	–	–	–	–	●	WLCSP	–	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	1024	512	2	●	85	3.6	-40	1.7	–	2	–	32	–	–	–	2	●	16	Dual host and device	Reel
CY8C6245FNI-S3D71T	●	●	–	–	–	–	●	WLCSP	–	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	–	512	256	–	●	85	3.6	-40	1.7	1	2	–	12	2	12	6	–	●	8	Dual host and device	Reel
CY8C6247BZI-D44	●	●	–	–	–	–	●	BGA	104	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	–	●	16	Dual host and device	Tray
PSoC™ 63 Series																																		
CY8C6347FMI-BLD33T	●	●	2	+4	-95	2.4	●	WLCSP	72	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	2	●	16	–	Reel
CY8C6347FMI-BLD13T	●	●	2	+4	-95	2.4	●	WLCSP	72	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	–	Reel
CY8C6347FMI-BLD53T	●	●	2	+4	-95	2.4	●	WLCSP	72	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	2	●	16	–	Reel
CY8C6347FMI-BUD43T	●	●	2	+4	-95	2.4	●	WLCSP	69	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	Dual host and device	Reel
CY8C6347FMI-BUD13T	●	●	2	+4	-95	2.4	●	WLCSP	69	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	Dual host and device	Reel
CY8C6347FMI-BUD33T	●	●	2	+4	-95	2.4	●	WLCSP	69	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	2	●	16	Dual host and device	Reel
CY8C68237FM-BLE	●	●	2	+4	-95	2.4	●	WLCSP	72	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	5,5	-40	1.9	–	2	2	32	32	12	9	2	●	16	–	Tray
CY8C6347FMI-BLD43T	●	●	2	+4	-95	2.4	●	WLCSP	72	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	–	Reel
CY8C6336BZI-BLD14	●	●	2	+4	-95	2.4	●	BGA	84	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	Dual host and device	Tray
CY8C6347BZI-BLD34	●	●	2	+4	-95	2.4	●	BGA	84	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	2	●	16	Dual host and device	Tray
CY8C6316BZI-BLF54	●	●	2	+4	-95	2.4	●	BGA	84	Cortex®-M4	50	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	2	●	16	Dual host and device	Tray
CY8C6336BZI-BLF04	●	●	2	+4	-95	2.4	–	BGA	84	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	Dual host and device	Tray
CY8C6347BZI-BLD44	●	●	2	+4	-95	2.4	●	BGA	84	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	Dual host and device	Tray
CY8C6337BZI-BLF14	●	●	2	+4	-95	2.4	●	BGA	84	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	Dual host and device	Tray
CY8C6316BZI-BLF03	●	●	2	+4	-95	2.4	–	BGA	78	Cortex®-M4	50	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	160	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	–	●	16	–	Tray

Industrial PSoC™ 6

Product type/partnumber	Industrial	Consumer	BLE Maximum Data Rate [Mbps]	BLE Power Output [dBm]	BLE RX Sensitivity [dBm]	BLE Supported Frequency band [GHz]	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Secondary processor type	Cryptographics accelerator	Dedicated ADC (# Max Resolution @ Sample rate)	Dedicated DAC (# Max Resolution @ Sample rate)	Flash [KB]	SRAM [KB]	I²S	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Dedicated comparators	# Dedicated OpAmps	# Dedicated timer/ Counter/PWM blocks	# DMA channels	# Programmable universal digital blocks	# Serial communication blocks (I²C, UART, SPI)	PDM-PCM	Quad-SPI	Smart I/O	FS-USB	Package carrier
PSoC™ 63 Series																																		
CY8C6336BZI-BLF03	●	●	2	+4	-95	2.4	–	BGA	78	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	160	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	–	●	16	–	Tray
CY8C6347BZI-BLD43	●	●	2	+4	-95	2.4	●	BGA	78	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	–	Tray
CY8C6336BZI-BLD13	●	●	2	+4	-95	2.4	●	BGA	78	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	160	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	–	●	16	–	Tray
CY8C6337BZI-BLF13	●	●	2	+4	-95	2.4	●	BGA	78	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	–	Tray
CY8C6347BZI-BLD43T	●	●	2	+4	-95	2.4	●	BGA	78	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	–	Reel
CY8C6347BZI-BLD53T	●	●	2	+4	-95	2.4	●	BGA	78	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	2	●	16	–	Reel
CY8C6316BZI-BLF53	●	●	2	+4	-95	2.4	●	BGA	78	Cortex®-M4	50	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	160	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	–	●	16	–	Tray
CY8C6336LQI-BLF42	●	●	2	+4	-95	2.4	●	QFN	41	Cortex®-M4	150	–	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	–	Tray
CY8C6316BZI-BLF04	●	●	2	+4	-95	2.4	–	BGA	84	Cortex®-M4	50	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	Dual host and device	Tray
CY8C6336LQI-BLF02	●	●	2	+4	-95	2.4	–	QFN	41	Cortex®-M4	150	–	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	●	85	3.6	-40	1.7	–	2	–	32	32	–	9	2	●	16	–	Tray
CY8C6347FMI-BUD53T	●	●	2	+4	-95	2.4	●	WLCSP	–	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	–	–	16	Dual host and device	Reel
CY8C6347BZI-BLD33	●	●	2	+4	-95	2.4	●	BGA	78	Cortex®-M4	150	Cortex®-M0	–	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	2	●	16	–	Tray
CY8C6347LQI-BLD52	●	●	2	+4	-95	2.4	●	QFN	–	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	2	●	16	–	Tray
CY8C6347BZI-BLD53	●	●	2	+4	-95	2.4	●	BGA	78	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	●	85	3.6	-40	1.7	–	2	2	32	32	12	9	2	●	16	–	Tray

Automotive, Off-Highway vehicles and Safety Required Applications

AURIX™ Microcontroller – TC2x family

Brand | Device

SA K – TC 2 7 5 T □ – 64 F 200 N

- SA: Infineon product identifier
- K: Temperature range
- TC: TriCore™
- 2: Architecture
- 7: Series
- 5: Package
- T: Core architecture
- □: Feature package
- 64: Memory size
- F: Memory type
- 200: Frequency
- N: Package type

Temperature range
K -40 ... +125°C
L -40 ... +150°C

Frequency
160 MHz
200 MHz
300 MHz

Series
9 series
8 series
7 series
6 series
3 series
2 series
E series
A series

Package class
9 516 – pin
8 416 – pin
7 292 – pin
5 176 – pin
4 144 – pin
3 100 – pin
2 80 – pin
0 Bare die

Core architecture
T Triple core
D Dual core
S Single core
L Single core with lockstep

Feature package
– Production device, no HSM
A ADAS enhanced, HSM enabled
E Emulation device, no HSM
F Emulation device, HSM enabled
P Production device, HSM enabled
X Extended feature, HSM enabled
C Customer specific

Flash size code
8 0.5 MB
16 1 MB
24 1.5 MB
32 2 MB
40 2.5 MB
64 4 MB
96 6 MB
128 8 MB

Package type code
N CAN FD ISO frame
W LQFP 0.5 mm pitch
F TQFP 0.4 mm pitch
L BGA 1.0 mm pitch
S LFBGA 0.8 mm pitch
Q Fusion Quad QFP 0.5 mm pitch

32-bit AURIX™ Microcontroller – TC2x family

Product type	Package		TriCore™		Program flash		Data flash			SRAM	DMA	ADC		Timer - GTM				Timer	Interfaces																Safety	Security	Power	
	Temperature T_A [°C]	Package (Pitch)	# Cores/checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	Modules 12-bit (SAR)/16-bit (DS)	Channels VADC/DSADC	GTM input/output channels	TOM – standard 16-bit PWM ch.	ATOM – complex 24-bit PWM ch.	DTM – 2x 4 ch	CCU/GPT modules	FlexRay (#./ch.)	CAN-FD (nodes/obj)/(DIS 2014)	CAN-FD (nodes/obj)/(DIS 2015)	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I^2C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	FFT accelerator engine	Camera (incl. pixel preprocessing) & ext. ADC 16-bit interface (CIF)	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	Embedded Voltage Regulator (EVR)	Standby control unit
AURIX™ TC2x – family																																						
SAK-TC299TX-128F300	125	LFBGA-516 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	84/10 diff	48/152	80	72	–	2/1	2/4	6/384	4	6	4	2	15	5	1	1	3 diff LVDS	1	–	–	1	ASIL-D	●	●	SRAM
SAK-TC299TY-128F300	125	LFBGA-516 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	84/10 diff	48/152	80	72	–	2/1	2/4	6/384	4	6	4	2	15	5	1	1	3 diff LVDS	1	–	–	1	ASIL-D	–	●	SRAM
SAK/L-TC299TP-128F300	125, 150	LFBGA-516 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	728	128	11/10	84/10 diff	48/152	80	72	–	2/1	2/4	6/384	4	6	4	2	15	5	1	1	3 diff LVDS	1	–	–	1	ASIL-D	●	●	SRAM
SAK/L-TC298TP-128F300	125, 150	LFBGA-416 (1.0 mm)	3/1	300	8	20 years	768	125 k	10 years	728	128	11/10	62/10 diff	48/152	80	72	–	2/1	2/4	6/384	4	4	4	2	15	5	1	1	3 diff LVDS	1	–	–	1	ASIL-D	●	●	SRAM
SAK-TC297TA-128F300	125	LFBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	60/6 diff	48/152	80	72	–	2/1	2/4	6/384	4	5	4	2	15	5	1	1	3 diff LVDS	–	1	1	1	ASIL-D	●	●	SRAM
SAK-TC297TB-128F300	125	LFBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	60/6 diff	48/152	80	72	–	2/1	2/4	6/384	4	5	4	2	15	5	1	1	3 diff LVDS	–	1	1	1	ASIL-D	–	●	SRAM
SAK-TC297TX-128F300	125	LFBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	60/6 diff	48/152	80	72	–	2/1	2/4	6/384	4	5	4	2	15	5	1	1	3 diff LVDS	–	–	–	1	ASIL-D	●	●	SRAM
SAK-TC297TY-128F300	125	LFBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	60/6 diff	48/152	80	72	-	2/1	2/4	6/384	4	5	4	2	15	5	1	1	3 diff LVDS	–	–	–	1	ASIL-D	–	●	SRAM
SAK/L-TC297TP-128F300	125, 150	LFBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	728	128	11/10	60/6 diff	48/152	80	72	–	2/1	2/4	6/384	4	5	4	2	15	5	1	1	3 diff LVDS	–	–	–	1	ASIL-D	●	●	SRAM
SAK/L-TC297T-128F300	125, 150	LFBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	728	128	11/10	60/6 diff	48/152	80	72	–	2/1	2/4	6/384	4	5	4	2	15	5	1	1	3 diff LVDS	–	–	–	1	ASIL-D	–	●	SRAM
SAK/L-TC277TP-64F200	125, 150	LFBGA-292 (0.8 mm)	3/2	200	4	20 years	384	125 k	10 years	472	64	8/6	60/6 diff	32/88	48	40	–	2/1	1/2	4/256	4	4	4	1	10	3	1	1	2 diff LVDS	–	–	–	1	ASIL-D	●	●	SRAM
SAK/L-TC277T-64F200	125, 150	LFBGA-292 (0.8 mm)	3/2	200	4	20 years	384	125 k	10 years	472	64	8/6	60/6 diff	32/88	48	40	–	2/1	1/2	4/256	4	4	4	1	10	3	1	1	2 diff LVDS	–	–	–	1	ASIL-D	–	●	SRAM
SAK/L-TC275TP-64F200	125, 150	LQFP-176 (0.5 mm)	3/2	200	4	20 years	384	125 k	10 years	472	64	8/6	48/6 diff	32/88	48	40	–	2/1	1/2	4/256	4	4	4	1	10	3	1	1	2 diff LVDS	–	–	–	1	ASIL-D	●	●	SRAM
SAK/L-TC275T-64F200	125, 150	LQFP-176 (0.5 mm)	3/2	200	4	20 years	384	125 k	10 years	472	64	8/6	48/6 diff	32/88	48	40	–	2/1	1/2	4/256	4	4	4	1	10	3	1	1	2 diff LVDS	–	–	–	1	ASIL-D	–	●	SRAM
SAK/L-TC267D-40F200	125, 150	LFBGA-292 (0.8 mm)	2/1	200	2.5	20 years	96	125 k	10 years	240	48	4/3	56/3 diff	24/ 64	32	32	–	2/1	1/2	5/256	–	4	4	1	6	2	1	1	2 diff LVDS	–	–	–	1	ASIL-D	–	●	●
SAK/L-TC265D-40F200	125, 150	LQFP-176 (0.5 mm)	2/1	200	2.5	20 years	96	125 k	10 years	240	48	4/3	50/3 diff	24/ 64	32	32	–	2/1	1/2	5/256	4	4	4	1	6	2	1	1	2 diff LVDS	–	–	–	1	ASIL-D	–	●	●
SAK-TC264DA-40F200	125	LQFP-144 (0.5 mm)	2/1	200	2.5	20 years	96	125 k	10 years	752	48	4/3	40/3 diff	24/ 64	32	32	–	2/1	1/2	5/256	4	4	4	1	6	2	1	1	2 diff LVDS	–	1	1	1	ASIL-D	–	●	●
SAK/L-TC264D-40F200	125, 150	LQFP-144 (0.5 mm)	2/1	200	2.5	20 years	96	125 k	10 years	240	48	4/3	40/3 diff	24/ 64	32	32	–	2/1	1/2	5/256	4	4	4	1	6	2	1	1	2 diff LVDS	–	–	–	1	ASIL-D	–	●	●
SAK-TC234LA-32F200	125	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	704	16	4/–	24/–	8/32	32	–	2	2/1	1/2	6/256	–	4	2	–	4	–	–	–	–	–	1	–	1	ASIL-D	●	●	WUT + SRAM
SAK-TC234LX-32F200	125	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	704	16	2/–	24/–	8/32	32	–	2	2/1	1/2	6/256	–	4	2	–	4	–	–	–	–	–	–	–	1	ASIL-D	●	●	WUT + SRAM
SAK/L-TC237LP-32F200	125, 150	LFBGA-292 (0.8 mm)	1/1	200	2	20 years	128	125 k	10 years	192	16	2/–	24/–	8/32	32	–	2	2/1	1/2	6/256	4	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	●	●	WUT + SRAM
SAK/L-TC234LP-32F200	125, 150	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	192	16	2/–	24/–	8/32	32	–	2	2/1	1/2	6/256	4	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	●	●	WUT + SRAM
SAK/L-TC234L-32F200	125, 150	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	192	16	2/–	24/–	8/32	32	–	2	2/1	1/2	6/256	4	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	–	●	WUT + SRAM
SAK/L-TC233L-32F200	125, 150	TQFP-100 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	192	16	2/–	24/–	8/32	32	–	2	2/1	1/2	6/256	4	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	–	●	WUT + SRAM
SAK/L-TC233LP-32F200	125, 150	TQFP-100 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	192	16	2/–	24/–	8/32	32	–	2	2/1	1/2	6/256	4	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	●	●	WUT + SRAM

32-bit AURIX™ Microcontroller – TC2x family

Product type	Package		TriCore™		Program flash		Data flash			SRAM	DMA	ADC		Timer - GTM				Timer	Interfaces															Safety	Security	Power	
	Temperature T_A [°C]	Package (Pitch)	# Cores/checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	Modules 12-bit (SAR)/16-bit (DS)	Channels VADC/DSADC	GTM input/output channels	TOM – standard 16-bit PWM ch.	ATOM – complex 24-bit PWM ch.	DTM – 2x 4 ch	CCU/GPT modules	FlexRay (#/ch.)	CAN-FD (nodes/obj)(DIS 2014)	CAN-FD (nodes/obj)(DIS 2015)	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I^2C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	FFT accelerator engine	Camera (incl. pixel preprocessing) & ext. ADC 16-bit interface (CIF)	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	Embedded Voltage Regulator (EVR)	Standby control unit
AURIX™ TC2x – family																																						
SAK/L-TC224L-16F133	125, 150	TQFP-144 (0.4 mm)	1/1	133	1	20 years	96	125 k	10 years	96	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	–	●	WUT + SRAM
SAK/L-TC224S-16F133	125, 150	TQFP-144 (0.4 mm)	1/0	133	1	20 years	96	125 k	10 years	96	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-B	–	●	WUT + SRAM
SAK/L-TC223L-16F133	125, 150	TQFP-100 (0.4 mm)	1/1	133	1	20 years	96	125 k	10 years	96	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	–	●	WUT + SRAM
SAK/L-TC223S-16F133	125, 150	TQFP-100 (0.4 mm)	1/0	133	1	20 years	96	125 k	10 years	96	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-B	–	●	WUT + SRAM
SAK/L-TC222L-16F133	125, 150	TQFP-80 (0.4 mm)	1/1	133	1	20 years	96	125 k	10 years	96	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	–	●	WUT + SRAM
SAK/L-TC222S-16F133	125, 150	TQFP-80 (0.4 mm)	1/0	133	1	20 years	96	125 k	10 years	96	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-B	–	●	WUT + SRAM
SAK/L-TC214L-8F133	125, 150	TQFP-144 (0.4 mm)	1/1	133	0.5	20 years	64	125 k	10 years	56	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	–	●	WUT + SRAM
SAK/L-TC214S-8F133	125, 150	TQFP-144 (0.4 mm)	1/0	133	0.5	20 years	64	125 k	10 years	56	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-B	–	●	WUT + SRAM
SAK/L-TC213L-8F133	125, 150	TQFP-100 (0.4 mm)	1/1	133	0.5	20 years	64	125 k	10 years	56	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	–	●	WUT + SRAM
SAK/L-TC213S-8F133	125, 150	TQFP-100 (0.4 mm)	1/0	133	0.5	20 years	64	125 k	10 years	56	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-B	–	●	WUT + SRAM
SAK/L-TC212L-8F133	125, 150	TQFP-80 (0.4 mm)	1/1	133	0.5	20 years	64	125 k	10 years	56	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-D	–	●	WUT + SRAM
SAK/L-TC212S-8F133	125, 150	TQFP-80 (0.4 mm)	1/0	133	0.5	20 years	64	125 k	10 years	56	16	2/–	24/–	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	ASIL-B	–	●	WUT + SRAM

ASC = Asynchronous Serial Channel
EVR = Embedded Voltage Regulator
MSC = Micro Second Channel
SENT = Single Edge Nibble Transmission

Ambient temperature range:
K = -40 ... 125°C, **L** = -40 ... 150°C

AURIX™ Microcontroller – TC3x family

Brand: SA K – TC
Device: 3 7 5 T P – 96 F 300 W

SA	K	–	TC	3	7	5	T	P	–	96	F	300	W
Infineon product identifier	Temperature range		TriCore™	Architecture	Series	Package	Core architecture	Feature package		Memory size	Memory type	Frequency	Package type

Temperature range
K -40 ... +125°C
L -40 ... +150°C

Series
9 series
8 series
7 series
6 series
3 series
2 series
E series
A series

Package class
9 516 – pin
8 233 – pin
7 292 – pin
6 180 – pin
5 176 – pin
4 144 – pin
3 100 – pin
2 80 – pin
0 Bare die

Core architecture
X Hexa core
Q Quad core
T Triple core
D Dual core
L Single core

Feature package
A ADAS extended memory
E Emulation device
F Extended flash
G Additional connectivity
H ADAS standard feature
M MotionWise software
P Standard feature
T ADAS + emulation
X Extended feature
C, V, Z Customer specific

Flash size code
16 1 MB
32 2 MB
64 4 MB
96 6 MB
128 8 MB
160 10 MB
192 12 MB
256 16 MB

Frequency
160 MHz
200 MHz
300 MHz

Package type code
W LQFP 0.5 mm pitch
F TQFP 0.4 mm pitch
S LFBGA 0.8 mm pitch
– letter for bare die

32-bit AURIX™ Microcontroller – TC3x family

Product type	TriCore™	Package		Program flash		Data flash			SRAM	DMA	Timer	Interfaces														Safety	Security	Power	
	Max frequency [MHz]	Temperature T_A [°C]	Package (Pitch)	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	GTM/CCU/GPT modules	FlexRay (#/ch.)	CAN-FD	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I^2C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	Signal Processing Unit (SPU)	Camera (incl. pixel preprocessing) & ext. ADC 16-bit interface (CIF)	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	Embedded Voltage Regulator (EVR) (5 V/3.3 V)	Standby control unit
AURIX™ TC3x – family																													
SAK-TC397XA-256F300S	300	125	LFBGA-292 (0.8 mm)	16	20 years	1024	125 k	10 years	6912	128	●/●/●	4	12	6	12	2	17	4	●	2	1	–	2	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC399XX-256F300S	300	125–150	LFBGA-516 (0.8 mm)	16	20 years	1024	125 k	10 years	6912	128	●/●/●	4	12	6	12	2	25	4	●	2	4	●	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC399XP-256F300S	300	125–150	LFBGA-516 (0.8 mm)	16	20 years	1024	125 k	10 years	2816	128	●/●/●	4	12	6	12	2	25	4	●	2	4	●	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC397XX-256F300S	300	125–150	LFBGA-292 (0.8 mm)	16	20 years	1024	125 k	10 years	6912	128	●/●/●	4	12	6	12	2	20	4	●	2	2	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC397XP-256F300S	300	125–150	LFBGA-292 (0.8 mm)	16	20 years	1024	125 k	10 years	2816	128	●/●/●	4	12	6	12	2	20	4	●	2	2	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK-TC397QA-160F300S	300	125	LFBGA-292 (0.8 mm)	16	20 years	1024	125 k	10 years	6368	128	●/●/●	4	12	6	12	2	20	4	●	2	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK-TC397XM-256F300S	300	125	LFBGA-292 (0.8 mm)	16	20 years	1024	125 k	10 years	2816	128	●/●/●	4	12	6	12	2	20	4	●	2	2	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC389QP-160F300S	300	125–150	LFBGA-516 (0.8 mm)	10	20 years	512	125 k	10 years	1568	128	●/●/●	4	12	5	24	2	25	4	●	1	3	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC387QP-160F300S	300	125–150	LFBGA-292 (0.8 mm)	10	20 years	512	125 k	10 years	1568	128	●/●/●	4	12	5	24	2	20	4	●	1	2	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK-TC3E7QG-160F300S	300	125	LFBGA-292 (0.8 mm)	10	20 years	512	125 k	10 years	1696	128	●/●/●	4	20	5	24	2	20	4	●	1	2	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC3E7QF-192F300S	300	125–150	LFBGA-292 (0.8 mm)	12	20 years	512	125 k	10 years	1696	128	●/●/●	4	16	5	24	2	20	4	●	1	2	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC3E7QX-192F300S	300	125–150	LFBGA-292 (0.8 mm)	12	20 years	512	125 k	10 years	1696	128	●/●/●	4	20	5	24	2	20	4	●	1	2	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK-TC377TX-96F300S	300	125	LFBGA-292 (0.8 mm)	6	20 years	256	125 k	10 years	4208	128	●/●/●	2	12	5	12	1	15	2	●	1	2	–	–	1	2/2	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC377TP-96F300S	300	125–150	LFBGA-292 (0.8 mm)	6	20 years	256	125 k	10 years	1136	128	●/●/●	2	8	5	12	1	15	2	●	1	2	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC375TP-96F300W	300	125–150	LQFP-176 (0.5 mm)	6	20 years	256	125 k	10 years	1136	128	●/●/●	2	8	5	12	1	15	2	●	1	2	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC367DP-64F300S	300	125–150	LFBGA-292 (0.8 mm)	4	20 years	128	125 k	10 years	672	64	●/●/●	2	8	4	12	1	10	2	●	1	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC365DP-64F300W	300	125–150	LQFP-176 (0.5 mm)	4	20 years	128	125 k	10 years	672	64	●/●/●	2	8	4	12	1	10	2	●	1	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC364DP-64F300W	300	125–150	LQFP-176 (0.5 mm)	4	20 years	128	125 k	10 years	672	64	●/●/●	2	8	4	12	1	10	2	●	1	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC364DP-64F300F	300	125–150	TQFP-144 (0.4 mm)	4	20 years	128	125 k	10 years	672	64	●/●/●	2	8	4	12	1	10	2	●	1	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC367DP-64F300S	300	125–150	LFBGA-292 (0.8 mm)	4	20 years	128	125 k	10 years	672	64	●/●/●	2	8	4	12	1	10	2	●	1	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC366DP-64F300S	300	125–150	BGA-180 (0.8 mm)	4	20 years	128	125 k	10 years	672	64	●/●/●	2	8	4	12	1	10	2	●	1	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC365DP-64F300W	300	125–150	LQFP-176 (0.5 mm)	4	20 years	128	125 k	10 years	672	64	●/●/●	2	8	4	12	1	10	2	●	1	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC364DP-64F300W	300	125–150	LQFP-176 (0.5 mm)	4	20 years	128	125 k	10 years	672	64	●/●/●	2	8	4	12	1	10	2	●	1	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC364DP-64F300F	300	125–150	TQFP-144 (0.4 mm)	4	20 years	128	125 k	10 years	672	64	●/●/●	2	8	4	12	1	10	2	●	1	1	–	–	–	1/1	ASIL-D	Full eVita	●	● (8 bit)

32-bit AURIX™ Microcontroller – TC3x family

Product type	TriCore™	Package		Program flash		Data flash			SRAM	DMA	Timer	Interfaces														Safety	Security	Power	
	Max frequency [MHz]	Temperature T_A [°C]	Package (Pitch)	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	GTM/CCU/GPT modules	FlexRay (#/ch.)	CAN-FD	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I^2C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	Signal Processing Unit (SPU)	Camera (incl. pixel preprocessing) & ext. ADC 16-bit interface (CIF)	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	Embedded Voltage Regulator (EVR) (5 V/3.3 V)	Standby control unit
AURIX™ TC3x – family																													
SAK-TC357TA-64F300S	300	125	LFBGA-292 (0.8 mm)	4	20 years	128	125 k	10 years	3664	64	●/●/●	2	8	4	4	1	–	–	–	–	–	–	2	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK-TC357TH-64F300S	300	125	LFBGA-292 (0.8 mm)	4	20 years	128	125 k	10 years	3152	64	●/●/●	2	8	4	4	1	–	–	–	–	–	–	2	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK-TC356TH-64F300S	300	125	BGA-180 (0.8 mm)	4	20 years	128	125 k	10 years	3152	64	●/●/●	2	8	4	4	1	–	–	–	–	–	–	2	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK-TC356TA-64F300S	300	125	BGA-180 (0.8 mm)	4	20 years	128	125 k	10 years	3664	64	●/●/●	2	8	4	4	1	–	–	–	–	–	–	2	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK-TC337DA-32F200S	200	125	LFBGA-292 (0.8 mm)	2	20 years	128	125 k	10 years	1576	16	–/●/●	2	4	4	6	–	6	–	–	–	–	–	1	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC337LP-32F200S	200	125–150	LFBGA-292 (0.8 mm)	2	20 years	128	125 k	10 years	248	16	●/●/●	2	8	4	12	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC334LP-32F200F	200	125–150	TQFP-144 (0.4 mm)	2	20 years	128	125 k	10 years	248	16	●/●/●	2	8	4	12	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC333LP-32F200F	200	125–150	TQFP-100 (0.4 mm)	2	20 years	128	125 k	10 years	248	16	●/●/●	2	6	4	5	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC337LP-32F300S	300	125–150	LFBGA-292 (0.8 mm)	2	20 years	128	125 k	10 years	248	16	●/●/●	2	8	4	12	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)
TC337DA-32F300S	300	125	LFBGA-292 (0.8 mm)	2	20 years	128	125 k	10 years	1576	16	–/●/●	2	4	4	6	–	6	–	–	–	–	–	1	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC336LP-32F300S	300	125–150	BGA-180 (0.8 mm)	2	20 years	128	125 k	10 years	248	16	●/●/●	2	8	4	12	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC336LP-32F200S	200	125–150	BGA-180 (0.8 mm)	2	20 years	128	125 k	10 years	248	16	●/●/●	2	8	4	12	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)
SAK-TC336DA-32F300S	300	125	BGA-180 (0.8 mm)	2	20 years	128	125 k	10 years	1576	16	–/●/●	2	4	4	5	–	6	–	–	–	–	–	1	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK-TC336DA-32F200S	200	125	BGA-180 (0.8 mm)	2	20 years	128	125 k	10 years	1576	16	–/●/●	2	4	4	5	–	6	–	–	–	–	–	1	–	1/1	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC334LP-32F300F	300	125–150	TQFP-144 (0.4 mm)	2	20 years	128	125 k	10 years	248	16	●/●/●	2	8	4	12	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC333LP-32F300F	300	125–150	TQFP-100 (0.4 mm)	2	20 years	128	125 k	10 years	248	16	●/●/●	2	6	4	5	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC332LP-32F300F	300	125–150	TQFP-80 (0.4 mm)	2	20 years	128	125 k	10 years	248	16	●/●/●	2	6	4	5	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC332LP-32F200F	200	125–150	TQFP-80 (0.4 mm)	2	20 years	128	125 k	10 years	248	16	●/●/●	2	6	4	5	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC327LP-16F160S	160	125–150	LFBGA-292 (0.8 mm)	1	20 years	96	125 k	10 years	152	16	●/●/●	2	8	4	4	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC324LP-16F160F	160	125–150	TQFP-144 (0.4 mm)	1	20 years	96	125 k	10 years	152	16	●/●/●	2	8	4	4	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC323LP-16F160F	160	125–150	TQFP-100 (0.4 mm)	1	20 years	96	125 k	10 years	152	16	●/●/●	2	6	4	4	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)
SAK/L-TC322LP-16F160F	160	125–150	TQFP-80 (0.4 mm)	1	20 years	96	125 k	10 years	152	16	●/●/●	2	6	4	4	–	6	–	–	–	–	–	–	–	–/–	ASIL-D	Full eVita	●	● (8 bit)

ASC = Asynchronous Serial Channel
EVR = Embedded Voltage Regulator
MSC = Micro Second Channel
SENT = Single Edge Nibble Transmission

Ambient temperature range:
K = -40 ... 125°C, **L** = -40 ... 150°C

TRAVEO™ T2G Microcontroller

TRAVEO™ T2G Body decoder

CY	T	X	X	X	X	B	X	E	Q	0	XX	X	GS	X
Company ID	ATV MCU Family:	MCU Core	Application	cFlash/wFlash/ RAM density	Package	Hardware	Marketing	Revision	Fab Location	Reserved	Package code	Temperature	Quality	Tape/Reel shipment (opt.)

CY Infineon

T TRAVEO™ T2G

2 Single Core M4
3 Single Core M7
4 Dual Core M7

B Body

6 512KB/64KB/64KB (CYT2B6 Series)
7 1MB/96KB/128KB (CYT2B7 Series)
9 2MB/128KB/256KB (CYT2B9 Series)
B 4MB/256KB/768KB (CYT3BB/CYT4BB Series)
L 4MB/128KB/512KB (CYT2BL Series)
F 8MB/256KB/1024KB (CYT4BF Series)

3 64 pins
4 80 pins
5 100 pins
7 144 pins
8 176 pins
B 272 balls
C 320 balls

B eSHE
C HSM

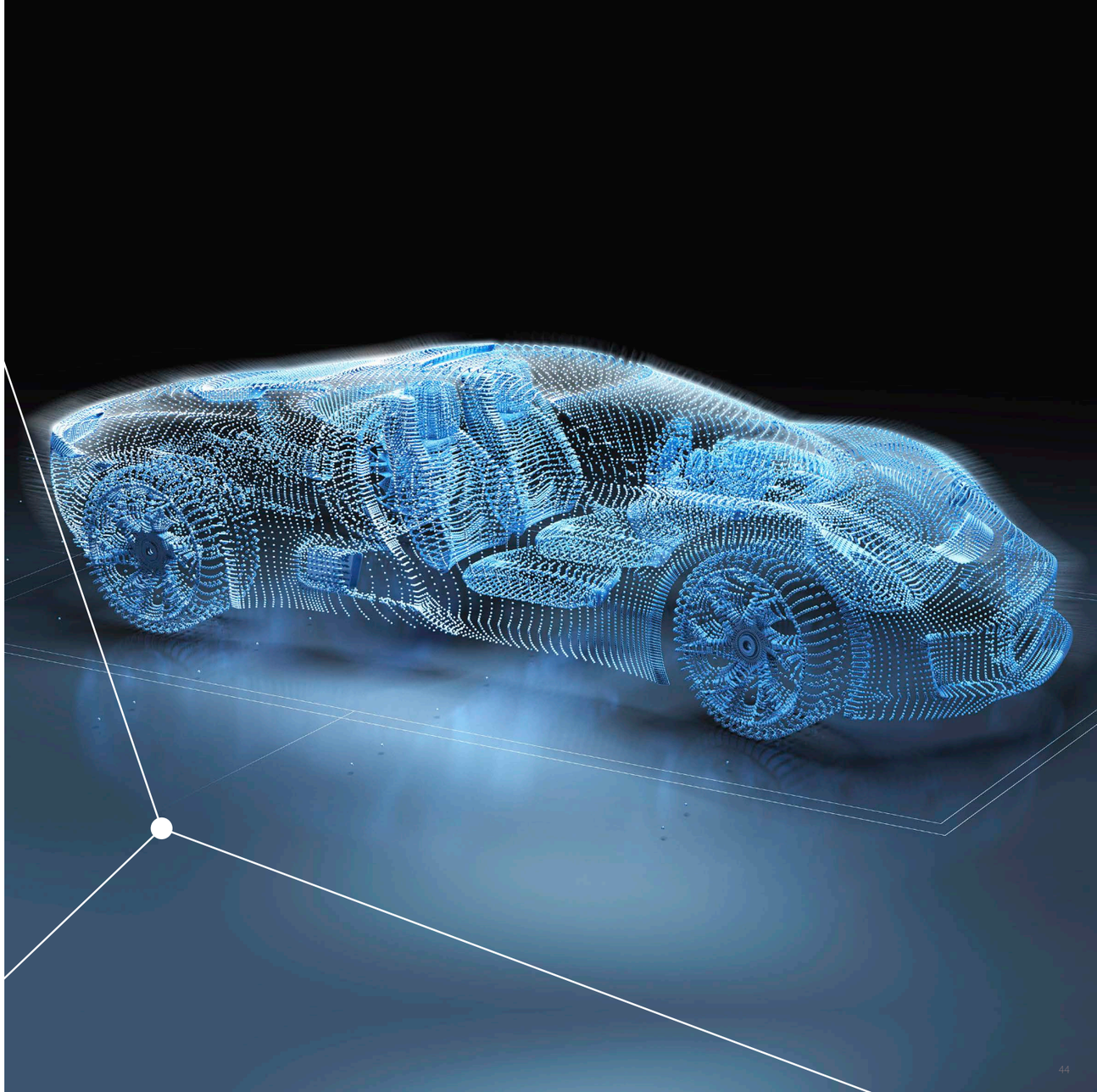
Options	Ethernet	Flexary	eMMC
A	off	off	off
B	1ch	off	off
C	1ch	on	off
D	1ch	on	on
E	1ch	off	on
F	2ch	off	off
G	2ch	on	off
H	2ch	on	on
J	2ch	off	on

AE TQFP
AZ LQFP
BZ BGA

S -40…+105°C
E -40…+120°C

GS Qualified

T Tape and Reel shipment



TRAVEO™ T2G Body

Product type/partnumber	Package	Pin count	GPIO	Smart IO	Main core type/Crypto core type – CM4F (Single core with FPU) – CM7F (Single core with FPU) – CM7F_D (Dual core with FPU)	Main Core frequency [MHz]	FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog	RTC channel	Temperature sensor	Debug Interface	Supply voltage [V]	Operating temperature range T_A [°C] -S: -40 to 105°C -E: -40 to 125°C	Code Flash [KB]	Work Flash [KB]	SRAM [KB]	ADC Channel	32-bit TCPWM	16-bit TCPWM	16-bit TCPWM (Motor control)	SCB channel	LIN channel	CAN FD channel	CXPI channel	I^2C channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel	eMMC IO speed	SMIF (SPI/HyperBus)	SMIF speed	External Interrupt channel	SIL level	Flash Securrty	eSHE/HSM
CYT2B6 Series																																									
CYT2B63BADQ0AZSGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	80	Single precision	●	●	54/26/2	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	576	64	64	22	2	46	4	6	5	3	0	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	eSHE
CYT2B63BADQ0AZEGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	80	Single precision	●	●	54/26/2	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	576	64	64	22	2	46	4	6	5	3	0	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	eSHE
CYT2B63CADQ0AZSGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	80	Single precision	●	●	54/26/2	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	576	64	64	22	2	46	4	6	5	3	0	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	HSM
CYT2B63CADQ0AZEGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	80	Single precision	●	●	54/26/2	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	576	64	64	22	2	46	4	6	5	3	0	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	HSM
CYT2B64BADQ0AZSGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	80	Single precision	●	●	54/26/2	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	576	64	64	28	2	46	4	6	5	4	0	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	eSHE
CYT2B64BADQ0AZEGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	80	Single precision	●	●	54/26/2	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	576	64	64	28	2	46	4	6	5	4	0	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	eSHE
CYT2B64CADQ0AZSGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	80	Single precision	●	●	54/26/2	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	576	64	64	28	2	46	4	6	5	4	0	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	HSM
CYT2B64CADQ0AZEGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	80	Single precision	●	●	54/26/2	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	576	64	64	28	2	46	4	6	5	4	0	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	HSM
CYT2B65BADQ0AZSGS	LQFP-100	100	78	16 (3 port)	CM4F/CM0+	80	Single precision	●	●	54/26/2	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	576	64	64	32	2	46	4	6	5	4	0	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	eSHE
CYT2B65BADQ0AZEGS	LQFP-100	100	78	16 (3 port)	CM4F/CM0+	80	Single precision	●	●	54/26/2	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	576	64	64	32	2	46	4	6	5	4	0	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	eSHE
CYT2B65CADQ0AZSGS	LQFP-100	100	78	16 (3 port)	CM4F/CM0+	80	Single precision	●	●	54/26/2	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	576	64	64	32	2	46	4	6	5	4	0	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	HSM
CYT2B65CADQ0AZEGS	LQFP-100	100	78	16 (3 port)	CM4F/CM0+	80	Single precision	●	●	54/26/2	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	576	64	64	32	2	46	4	6	5	4	0	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	HSM
CYT2B7 Series																																									
CYT2B73BADQ0AZSGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	1088	96	128	27	4	63	11	7	6	5	0	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	eSHE
CYT2B73BADQ0AZEGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	1088	96	128	27	4	63	11	7	6	5	0	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	eSHE
CYT2B73CADQ0AZSGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	1088	96	128	27	4	63	11	7	6	5	0	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	HSM
CYT2B73CADQ0AZEGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	1088	96	128	27	4	63	11	7	6	5	0	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	HSM
CYT2B74BADQ0AZSGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	1088	96	128	34	4	63	12	8	7	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	eSHE
CYT2B74BADQ0AZEGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	1088	96	128	34	4	63	12	8	7	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	eSHE
CYT2B74CADQ0AZSGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	1088	96	128	34	4	63	12	8	7	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	HSM
CYT2B74CADQ0AZEGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	1088	96	128	34	4	63	12	8	7	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	HSM
CYT2B75BADQ0AZSGS	LQFP-10	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	1088	96	128	39	4	63	12	8	7	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	eSHE
CYT2B75BADQ0AZEGS	LQFP-10	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	1088	96	128	39	4	63	12	8	7	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	eSHE
CYT2B75CADQ0AZSGS	LQFP-10	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	1088	96	128	39	4	63	12	8	7	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	HSM
CYT2B75CADQ0AZEGS	LQFP-10	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	1088	96	128	39	4	63	12	8	7	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	HSM
CYT2B77BADQ0AZSGS	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	1088	96	128	54	4	63	12	8	8	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	122	ASIL-B	●	eSHE
CYT2B77BADQ0AZEGS	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	1088	96	128	54	4	63	12	8	8	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	122	ASIL-B	●	eSHE

TRAVEO™ T2G Body

Product type/partnumber	Package	Pin count	GPIO	Smart IO	Main core type/Crypto core type – CM4F (Single core with FPU) – CM7F (Single core with FPU) – CM7F_D (Dual core with FPU)	Main Core frequency [MHz]	FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog	RTC channel	Temperature sensor	Debug Interface	Supply voltage [V]	Operating temperature range T_A [°C] -S: -40 to 105°C -E: -40 to 125°C	Code Flash [KB]	Work Flash [KB]	SRAM [KB]	ADC Channel	32-bit TCPWM	16-bit TCPWM	16-bit TCPWM (Motor control)	SCB channel	LIN channel	CAN FD channel	CXPI channel	I^2S channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel	eMMC IO speed	SMIF (SPI/HyperBus)	SMIF speed	External Interrupt channel	SIL level	Flash Securrty	eSHE/HSM
CYT2B7 Series																																									
CYT2B77CADQ0AZSGS	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	1088	96	128	54	4	63	12	8	8	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	122	ASIL-B	●	HSM
CYT2B77CADQ0AZEGS	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	1088	96	128	54	4	63	12	8	8	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	122	ASIL-B	●	HSM
CYT2B78BADQ0AZSGS	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	1088	96	128	64	4	63	12	8	8	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	eSHE
CYT2B78BADQ0AZEGS	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	1088	96	128	64	4	63	12	8	8	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	eSHE
CYT2B78CADQ0AZSGS	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	1088	96	128	64	4	63	12	8	8	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	HSM
CYT2B78CADQ0AZEGS	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	89/33/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	1088	96	128	64	4	63	12	8	8	6	0	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	HSM
CYT2L9 Series																																									
CYT2B93BACQ0AZSGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	27	8	63	11	7	7	5	2	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	eSHE
CYT2B93BACQ0AZEGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	27	8	63	11	7	7	5	2	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	eSHE
CYT2B93CACQ0AZSGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	27	8	63	11	7	7	5	2	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	HSM
CYT2B93CACQ0AZEGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	27	8	63	11	7	7	5	2	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	HSM
CYT2B94BACQ0AZSGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	34	8	63	12	8	9	7	3	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	eSHE
CYT2B94BACQ0AZEGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	34	8	63	12	8	9	7	3	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	eSHE
CYT2B94CACQ0AZSGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	34	8	63	12	8	9	7	3	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	HSM
CYT2B94CACQ0AZEGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	34	8	63	12	8	9	7	3	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	HSM
CYT2B95BACQ0AZSGS	LQFP-10	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	39	8	63	12	8	9	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	eSHE
CYT2B95BACQ0AZEGS	LQFP-10	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	39	8	63	12	8	9	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	eSHE
CYT2B95CACQ0AZSGS	LQFP-10	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	39	8	63	12	8	9	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	HSM
CYT2B95CACQ0AZEGS	LQFP-10	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	39	8	63	12	8	9	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	HSM
CYT2B97BACQ0AZSGS	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	54	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	122	ASIL-B	●	eSHE
CYT2B97BACQ0AZEGS	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	54	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	122	ASIL-B	●	eSHE
CYT2B97CACQ0AZSGS	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	54	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	122	ASIL-B	●	HSM
CYT2B97CACQ0AZEGS	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	54	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	122	ASIL-B	●	HSM
CYT2B98BACQ0AZSGS	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	64	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	eSHE
CYT2B98BACQ0AZEGS	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	64	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	eSHE
CYT2B98CACQ0AZSGS	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	64	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	HSM
CYT2B98CACQ0AZEGS	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	2112	128	256	64	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	HSM

TRAVEO™ T2G Body

Product type/partnumber	Package	Pin count	GPIO	Smart IO	Main core type/Crypto core type – CM4F (Single core with FPU) – CM7F (Single core with FPU) – CM7F_D (Dual core with FPU)	Main Core frequency [MHz]	FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog	RTC channel	Temperature sensor	Debug Interface	Supply voltage [V]	Operating temperature range T_A [°C] -S: -40 to 105°C -E: -40 to 125°C	Code Flash [KB]	Work Flash [KB]	SRAM [KB]	ADC Channel	32-bit TCPWM	16-bit TCPWM	16-bit TCPWM (Motor control)	SCB channel	LIN channel	CAN FD channel	CXPI channel	I^2C channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel	eMMC IO speed	SMIF (SPI/HyperBus)	SMIF speed	External Interrupt channel	SIL level	Flash Securrty	eSHE/HSM
CYT2BL Series																																									
CYT2BL3BAAQ0AZSGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	27	8	63	11	7	7	5	2	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	eSHE
CYT2BL3BAAQ0AZEGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	27	8	63	11	7	7	5	2	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	eSHE
CYT2BL3CAAQ0AZSGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	27	8	63	11	7	7	5	2	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	HSM
CYT2BL3CAAQ0AZEGS	LQFP-64	64	49	9 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	27	8	63	11	7	7	5	2	N/A	0	N/A	0	0	N/A	N/A	N/A	49	ASIL-B	●	HSM
CYT2BL4BAAQ0AZSGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	34	8	63	12	8	9	7	3	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	eSHE
CYT2BL4BAAQ0AZEGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	34	8	63	12	8	9	7	3	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	eSHE
CYT2BL4CAAQ0AZSGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	34	8	63	12	8	9	7	3	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	HSM
CYT2BL4CAAQ0AZEGS	LQFP-80	80	63	14 (3 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	34	8	63	12	8	9	7	3	N/A	0	N/A	0	0	N/A	N/A	N/A	63	ASIL-B	●	HSM
CYT2BL5BAAQ0AZSGS	LQFP-10	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	39	8	63	12	8	9	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	eSHE
CYT2BL5BAAQ0AZEGS	LQFP-10	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	39	8	63	12	8	9	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	eSHE
CYT2BL5CAAQ0AZSGS	LQFP-10	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	39	8	63	12	8	9	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	HSM
CYT2BL5CAAQ0AZEGS	LQFP-10	100	78	20 (4 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	39	8	63	12	8	9	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	78	ASIL-B	●	HSM
CYT2BL7BAAQ0AZSGS	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	54	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	122	ASIL-B	●	eSHE
CYT2BL7BAAQ0AZEGS	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	54	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	122	ASIL-B	●	eSHE
CYT2BL7CAAQ0AZSGS	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	54	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	122	ASIL-B	●	HSM
CYT2BL7CAAQ0AZEGS	LQFP-144	144	122	29 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	54	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	122	ASIL-B	●	HSM
CYT2BL8BAAQ0AZSGS	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	64	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	eSHE
CYT2BL8BAAQ0AZEGS	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	64	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	eSHE
CYT2BL8CAAQ0AZSGS	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	64	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	HSM
CYT2BL8CAAQ0AZEGS	LQFP-176	176	152	36 (5 port)	CM4F/CM0+	160	Single precision	●	●	92/44/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	128	512	64	8	63	12	8	12	8	4	N/A	0	N/A	0	0	N/A	N/A	N/A	152	ASIL-B	●	HSM
CYT3BB/4BB Series																																								
CYT3BB5CEBQ0AESGS	TQFP-100	100	72	15 (3 port)	CM7F/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	256	768	39	7	63	12	9	9	8	0	Tx 2ch, Rx 2ch (2 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	72	ASIL-B	●	HSM
CYT3BB5CEBQ0AEEGS	TQFP-100	100	72	15 (3 port)	CM7F/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	256	768	39	7	63	12	9	9	8	0	Tx 2ch, Rx 2ch (2 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	72	ASIL-B	●	HSM
CYT3BB7CEBQ0AESGS	TQFP-144	144	116	27 (5 port)	CM7F/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	256	768	54	7	63	12	10	12	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	116	ASIL-B	●	HSM
CYT3BB7CEBQ0AEEGS	TQFP-144	144	116	27 (5 port)	CM7F/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	256	768	54	7	63	12	10	12	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	116	ASIL-B	●	HSM
CYT3BB8CEBQ0AESGS	TQFP-176	176	148	36 (5 port)	CM7F/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	256	768	64	8	63	12	10	16	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	148	ASIL-B	●	HSM

TRAVEO™ T2G Body

Product type/partnumber	Package	Pin count	GPIO	Smart IO	Main core type/Crypto core type – CM4F (Single core with FPU) – CM7F (Single core with FPU) – CM7F_D (Dual core with FPU)	Main Core frequency [MHz]	FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog	RTC channel	Temperature sensor	Debug Interface	Supply voltage [V]	Operating temperature range T_A [°C] -S: -40 to 105°C -E: -40 to 125°C	Code Flash [KB]	Work Flash [KB]	SRAM [KB]	ADC Channel	32-bit TCPWM	16-bit TCPWM	16-bit TCPWM (Motor control)	SCB channel	LIN channel	CAN FD channel	CXPI channel	I^2S channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel	eMMC IO speed	SMIF (SPI/HyperBus)	SMIF speed	External Interrupt channel	SIL level	Flash Securrty	eSHE/HSM
CYT3BB/4BB Series																																								
CYT3BB8CEBQ0AEEGS	TQFP-176	176	148	36 (5 port)	CM7F/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	256	768	64	8	63	12	10	16	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	148	ASIL-B	●	HSM
CYT3BBBCEBQ0BZSGS	BGA-272	272	220	36 (5 port)	CM7F/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	256	768	72	8	63	12	11	16	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	–	1	3.3 V I/O at 100 MHz	220	ASIL-B	●	HSM
CYT3BBBCEBQ0BZEGS	BGA-272	272	220	36 (5 port)	CM7F/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	256	768	72	8	63	12	11	16	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	–	1	3.3 V I/O at 100 MHz	220	ASIL-B	●	HSM
CYT4BB5CEBQ0AESGS	TQFP-100	100	72	15 (3 port)	CM7F_D/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	256	768	39	7	63	12	9	9	8	0	Tx 2ch, Rx 2ch (2 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	72	ASIL-B	●	HSM
CYT4BB5CEBQ0AEEGS	TQFP-100	100	72	15 (3 port)	CM7F_D/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	256	768	39	7	63	12	9	9	8	0	Tx 2ch, Rx 2ch (2 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	72	ASIL-B	●	HSM
CYT4BB7CEBQ0AESGS	TQFP-144	144	116	27 (5 port)	CM7F_D/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	256	768	54	7	63	12	10	12	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	116	ASIL-B	●	HSM
CYT4BB7CEBQ0AEEGS	TQFP-144	144	116	27 (5 port)	CM7F_D/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	256	768	54	7	63	12	10	12	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	116	ASIL-B	●	HSM
CYT4BB8CEBQ0AESGS	TQFP-176	176	148	36 (5 port)	CM7F_D/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	256	768	64	8	63	12	10	16	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	148	ASIL-B	●	HSM
CYT4BB8CEBQ0AEEGS	TQFP-176	176	148	36 (5 port)	CM7F_D/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	256	768	64	8	63	12	10	16	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	148	ASIL-B	●	HSM
CYT4BBBCEBQ0BZSGS	BGA-272	272	220	36 (5 port)	CM7F_D/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	256	768	72	8	63	12	11	16	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	-	1	3.3 V I/O at 100 MHz	220	ASIL-B	●	HSM
CYT4BBBCEBQ0BZEGS	BGA-272	272	220	36 (5 port)	CM7F_D/CM0+	250	Dual precision	●	●	100/58/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	4160	256	768	72	8	63	12	11	16	8	0	Tx 3ch, Rx 3ch (3 instances)	1	10/100	0	1	-	1	3.3 V I/O at 100 MHz	220	ASIL-B	●	HSM
CYT4BF Series																																								
CYT4BF8CEDQ0AESGS	TQFP-176	176	148	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	8384	256	1024	81	16	87	12	10	17	10	0	Tx 3ch, Rx 2ch (3 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	148	ASIL-B	●	HSM
CYT4BF8CEDQ0AEEGS	TQFP-176	176	148	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	8384	256	1024	81	16	87	12	10	17	10	0	Tx 3ch, Rx 2ch (3 instances)	1	10/100	0	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	148	ASIL-B	●	HSM
CYT4BF8CDDQ0AESGS	TQFP-176	176	148	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	8384	256	1024	81	16	87	12	10	17	10	0	Tx 3ch, Rx 2ch (3 instances)	1	10/100	2	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	148	ASIL-B	●	HSM
CYT4BF8CDDQ0AEEGS	TQFP-176	176	148	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	8384	256	1024	81	16	87	12	10	17	10	0	Tx 3ch, Rx 2ch (3 instances)	1	10/100	2	1	5 V I/O at 26 MHz	1	5 V I/O at 32 MHz	148	ASIL-B	●	HSM
CYT4BFBCJDQ0BZSGS	BGA-272	272	220	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	8384	256	1024	96	16	87	12	11	20	10	0	Tx 3ch, Rx 2ch (3 instances)	2	10/100/1000	0	1	-	1	3.3 V I/O at 100 MHz	220	ASIL-B	●	HSM
CYT4BFBCJDQ0BZEGS	BGA-272	272	220	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	8384	256	1024	96	16	87	12	11	20	10	0	Tx 3ch, Rx 2ch (3 instances)	2	10/100/1000	0	1	-	1	3.3 V I/O at 100 MHz	220	ASIL-B	●	HSM
CYT4BFBCHDQ0BZSGS	BGA-272	272	220	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	8384	256	1024	96	16	87	12	11	20	10	0	Tx 3ch, Rx 2ch (3 instances)	2	10/100/1000	2	1	-	1	3.3 V I/O at 100 MHz	220	ASIL-B	●	HSM
CYT4BFBCHDQ0BZEGS	BGA-272	272	220	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	8384	256	1024	96	16	87	12	11	20	10	0	Tx 3ch, Rx 2ch (3 instances)	2	10/100/1000	2	1	-	1	3.3 V I/O at 100 MHz	220	ASIL-B	●	HSM
CYT4BFCCJDQ0BZSGS	320-BGA	320	240	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	8384	256	1024	96	16	87	12	11	20	10	0	Tx 3ch, Rx 2ch (3 instances)	2	10/100/1000	0	1	-	1	3.3 V I/O at 100 MHz	240	ASIL-B	●	HSM
CYT4BFCCJDQ0BZEGS	320-BGA	320	240	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	8384	256	1024	96	16	87	12	11	20	10	0	Tx 3ch, Rx 2ch (3 instances)	2	10/100/1000	0	1	-	1	3.3 V I/O at 100 MHz	240	ASIL-B	●	HSM
CYT4BFCCHDQ0BZSGS	320-BGA	320	240	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	8384	256	1024	96	16	87	12	11	20	10	0	Tx 3ch, Rx 2ch (3 instances)	2	10/100/1000	2	1	-	1	3.3 V I/O at 100 MHz	240	ASIL-B	●	HSM
CYT4BFCCHDQ0BZEGS	320-BGA	320	240	36 (5 port)	CM7F_D/CM0+	350	Dual precision	●	●	143/65/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	E	8384	256	1024	96	16	87	12	11	20	10	0	Tx 3ch, Rx 2ch (3 instances)	2	10/100/1000	2	1	-	1	3.3 V I/O at 100 MHz	240	ASIL-B	●	HSM

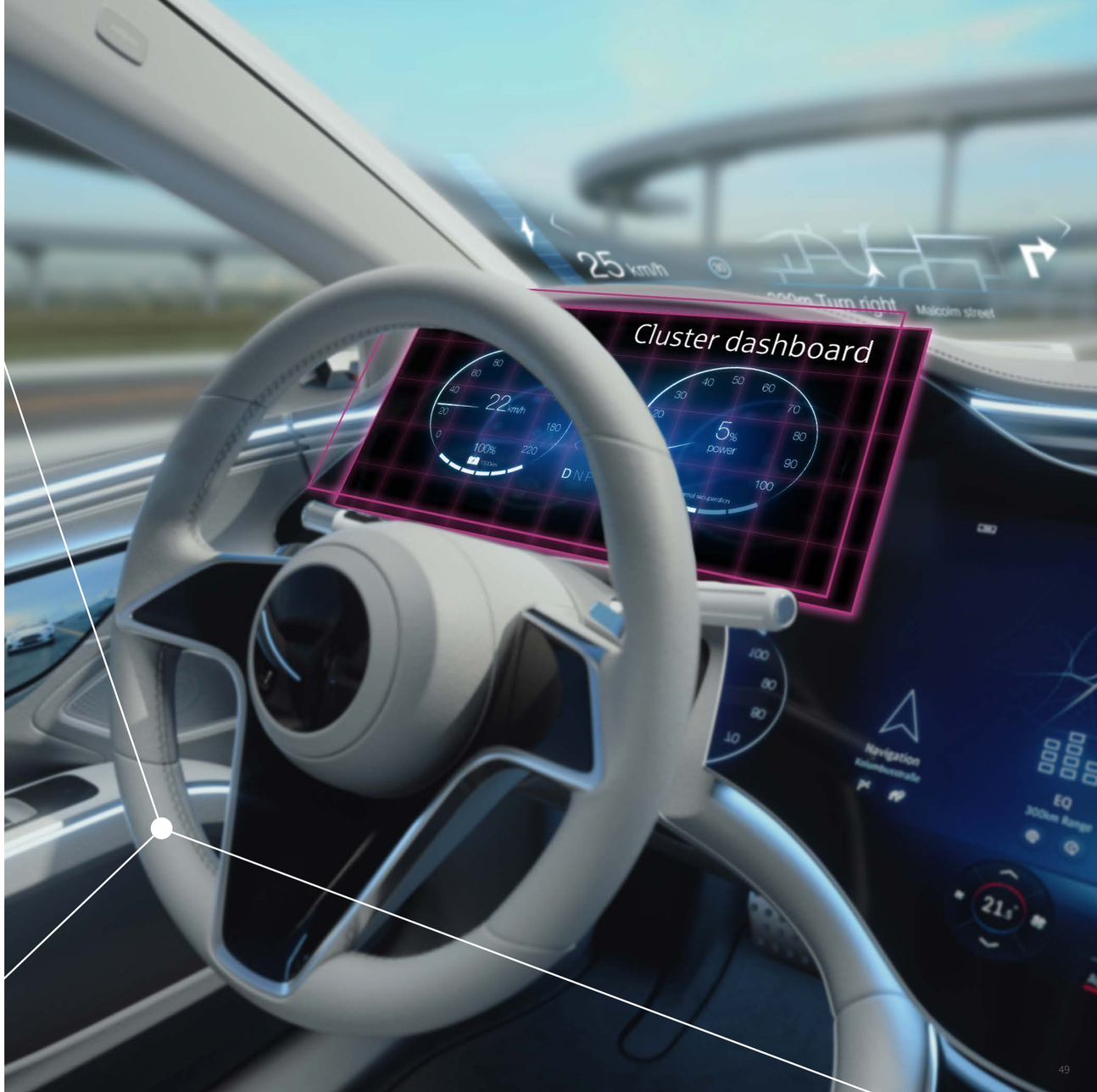
TRAVEO™ T2G Cluster decoder

C Y	T	X	X	X	X	B	X	X
Company ID	ATV MCU Family:	MCU Core	Application	cFlash/wFlash/ RAM density	Package [1]	Hardware	Marketing [2]	Temperature
CY Infineon	**T** TRAVEO™ T2G	**2** Single Core M4 **3** Single Core M7 **4** Dual Core M7	**C** Cluster D Cluster w/ 2D graphics **E** Cluster w/ 2D graphics + DDR i/f	**7** 1MB/96KB/128KB **9** 2MB/128KB/256KB **L** 4MB/128KB/512KB **N** 6MB/128KB/768KB	**5** 100 pins **7** 144 pins **8** 176 pins **9** 208 pins **A** 216 balls **B** 272 balls **D** 500 balls **H** 144 pins **J** 327 balls	**B** HSM enabled		**S** -40 ...+105°C

Marketing	JPG decoder	DAC	MIPI	Device option	CYT2C	CYT3C	CYT3D	CYT4D	CYT4E
A	no	no	no	no	X	X	X	X	X
B	no	no	no	yes		X	X	X	
C	no	no	yes	no			X	X	X
D	no	no	yes	yes			X	X	
E	no	yes	no	no		X	X	X	X
F	no	yes	no	yes		X	X	X	
G	no	yes	yes	no			X	X	X
H	no	yes	yes	yes			X	X	
J	yes	no	no	no				X	X
K	yes	no	no	yes				X	
L	yes	no	yes	no				X	X
M	yes	no	yes	yes				X	
N	yes	yes	no	no				X	X
P	yes	yes	no	yes				X	
Q	yes	yes	yes	no				X	X
R	yes	yes	yes	yes				X	

Device	Allowed device options No	Yes
CYT2C9xxx	No device options	
CYT2CLxxx	No device options	
CYT3CLxxx	No Video-out	Simple Video-out
CYT3DLxxx	1 x Video-out	2 x Video-out
CYT4DNxxx	1x SMIF	2x SMIF
CYT4ENxxx	No device options	

1) Not all package options are available for all devices
2) Depending on the package not all options shown here are actually available



TRAVEO™ T2G Cluster

Product type/partnumber	Package	Pin count	GPIO	Smart IO	Main core type/Crypto core type – CM4F (Single core with FPU) – CM7F (Single core with FPU) – CM7F_D (Dual core with FPU)	Main Core frequency [MHz]	FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog	RTC channel	Temperature sensor	Debug Interface	Supply voltage [V]	Operating temperature range T_A [°C] -S: -40 to 105°C -E: -40 to 125°C	Code Flash [KB]	Work Flash [KB]	SRAM [KB]	ADC Channel	32-bit TCPWM	16-bit TCPWM	16-bit TCPWM (Motor control)	SCB channel	LIN channel	CAN FD channel	CXPI channel	I²S channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel	eMMC IO speed	SMIF (SPI/HyperBus)	SMIF speed [MHz]	External Interrupt channel	MIPI D-PHY	LVDS TX PHY	LPDDR4/DDR3 PHY	Graphics	2.5 D Engine (IRIS on-the-fly)	Video-In	Video-out	Drawing engine	VRAM [MB]	VRAM Protection	JPEG decoder	SIL level	Flash security	eSHE/HSM
TRAVEO™ T2G CYT4DN Series																																																			
CYT4DNJBACQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	1	200	168	0	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	0	ASIL-B	●	HSM
CYT4DNJBBCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	2	200	168	0	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	0	ASIL-B	●	HSM
CYT4DNJBCCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	1	200	168	1	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	0	ASIL-B	●	HSM
CYT4DNJBDCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	2	200	168	1	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	0	ASIL-B	●	HSM
CYT4DNJBECQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	1	200	168	0	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	0	ASIL-B	●	HSM
CYT4DNJBFCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	2	200	168	0	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	0	ASIL-B	●	HSM
CYT4DNJBGCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	1	200	168	1	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	0	ASIL-B	●	HSM
CYT4DNJBHCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	2	200	168	1	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	0	ASIL-B	●	HSM
CYT4DNJBJCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	1	200	168	0	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	1	ASIL-B	●	HSM
CYT4DNJBKCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	2	200	168	0	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	1	ASIL-B	●	HSM
CYT4DNJBLCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	1	200	168	1	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	1	ASIL-B	●	HSM
CYT4DNJBMCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	2	200	168	1	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	1	ASIL-B	●	HSM
CYT4DNJBNCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	1	200	168	0	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	1	ASIL-B	●	HSM
CYT4DNJBPCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	2	200	168	0	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	1	ASIL-B	●	HSM
CYT4DNJBQCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	1	200	168	1	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	1	ASIL-B	●	HSM
CYT4DNJBRCQ1BZSGS	BGA-327	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100/1000	0	0	N/A	2	200	168	1	2 x single/1 x dual	N/A	●	●	1	2	●	4	●	1	ASIL-B	●	HSM
TRAVEO™ T2G CYT3DL Series																																																		
CYT3DLBBABQ1BZSGS	BGA-272	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	133	135	0	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM
CYT3DLBBBBQ1BZSGS	BGA-272	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	133	135	0	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM
CYT3DLBBCBQ1BZSGS	BGA-272	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	133	135	1	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM
CYT3DLBBDBQ1BZSGS	BGA-272	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	133	135	1	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM
CYT3DLBBEBQ1BZSGS	BGA-272	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	133	135	0	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM
CYT3DLBBFBQ1BZSGS	BGA-272	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	133	135	0	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM
CYT3DLBBGBQ1BZSGS	BGA-272	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	133	135	1	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM
CYT3DLBBHBQ1BZSGS	BGA-272	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	133	135	1	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM
CYT3DLABABQ1AESGS	TQFP-216	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	108	0	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM

TRAVEO™ T2G Cluster

Product type/partnumber	Package	Pin count	GPIO	Smart IO	Main core type/Crypto core type – CM4F (Single core with FPU) – CM7F (Single core with FPU) – CM7F_D (Dual core with FPU)	Main Core frequency [MHz]	FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog	RTC channel	Temperature sensor	Debug Interface	Supply voltage [V]	Operating temperature range T_A [°C] -S: -40 to 105°C -E: -40 to 125°C	Code Flash [KB]	Work Flash [KB]	SRAM [KB]	ADC Channel	32-bit TCPWM	16-bit TCPWM	16-bit TCPWM (Motor control)	SCB channel	LIN channel	CAN FD channel	CXPI channel	I²S channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel	eMMC IO speed	SMIF (SPI/HyperBus)	SMIF speed [MHz]	External Interrupt channel	MIPI D-PHY	LVDS TX PHY	LPDDR4/DDR3 PHY	Graphics	2.5 D Engine (IRIS on-the-fly)	Video-In	Video-out	Drawing engine	VRAM [MB]	VRAM Protection	JPEG decoder	SIL level	Flash security	eSHE/HSM
TRAVEO™ T2G CYT3DL Series																																																			
CYT3DLABBBQ1AESGS	TQFP-216	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	108	0	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM
CYT3DLABCBQ1AESGS	TQFP-216	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	108	1	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM
CYT3DLABDBQ1AESGS	TQFP-216	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	108	1	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM
CYT3DLABEBQ1AESGS	TQFP-216	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	108	0	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM
CYT3DLABFBQ1AESGS	TQFP-216	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	108	0	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM
CYT3DLABGBQ1AESGS	TQFP-216	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	108	1	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM
CYT3DLABHBQ1AESGS	TQFP-216	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	108	1	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM
CYT3DL9BABQ1AESGS	TQFP-208	208	102	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	102	0	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM
CYT3DL9BBBQ1AESGS	TQFP-208	208	102	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	102	0	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM
CYT3DL9BCBQ1AESGS	TQFP-208	208	102	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	102	1	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM
CYT3DL9BDBQ1AESGS	TQFP-208	208	102	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	102	1	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM
CYT3DL9BEBQ1AESGS	TQFP-208	208	102	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	102	0	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM
CYT3DL9BFBQ1AESGS	TQFP-208	208	102	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	102	0	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM
CYT3DL9BGBQ1AESGS	TQFP-208	208	102	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	102	1	1 x single	N/A	●	●	1	1	●	2	●	0	ASIL-B	●	HSM
CYT3DL9BHBQ1AESGS	TQFP-208	208	102	8 (1port)	ARM_CM7F/CM0+	240	Double prec.	●	●	76/84/8	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	384	48	32	50	0	12	2	4	2	2	1	10/100	0	0	N/A	2	100	102	1	1 x single	N/A	●	●	1	2	●	2	●	0	ASIL-B	●	HSM
TRAVEO™ T2G CYT2CL Series																																																			
CYT2C97BAAQ0AZSGS	LQFP-144	144	108	8 (1port)	ARM_CM4F/CM0+	160	Double prec.	●	●	76/84/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	48	16	46	0	12	2	4	2	2	0	N/A	0	0	N/A	1	100	108	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	ASIL-B	●	HSM
CYT2C9HBAAQ0AZSGS	LQFP-144	144 0.4mm	108	8 (1port)	ARM_CM4F/CM0+	160	Double prec.	●	●	76/84/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	48	16	46	0	12	2	4	2	2	0	N/A	0	0	N/A	1	100	108	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	ASIL-B	●	HSM
CYT2C98BAAQ0AZSGS	LQFP-144	176	140	8 (1port)	ARM_CM4F/CM0+	160	Double prec.	●	●	76/84/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	2112	128	256	48	16	46	0	12	2	4	2	2	0	N/A	0	0	N/A	1	100	140	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	ASIL-B	●	HSM
CYT2CL7BAAQ0AZSGS	LQFP-144	144	108	8 (1port)	ARM_CM4F/CM0+	160	Double prec.	●	●	76/84/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	48	16	46	0	12	2	4	2	2	0	N/A	0	0	N/A	1	100	108	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	ASIL-B	●	HSM
CYT2CLHBAAQ0AZSGS	LQFP-144	144 0.4mm	108	8 (1port)	ARM_CM4F/CM0+	160	Double prec.	●	●	76/84/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	48	16	46	0	12	2	4	2	2	0	N/A	0	0	N/A	1	100	108	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	ASIL-B	●	HSM
CYT2CL8BAAQ0AZSGS	LQFP-176	176	140	8 (1port)	ARM_CM4F/CM0+	160	Double prec.	●	●	76/84/4	●	●	1	●	SWD/JTAG/Trace	2.7 to 5.5	S	4160	128	512	48	16	46	0	12	2	4	2	2	0	N/A	0	0	N/A	1	100	140	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	ASIL-B	●	HSM

Automotive PSoC™ 4 decoder

CY	8C	4	A	B	C	DE	F	–	S	XYZ
Company ID	PSoC™	Architecture	Family	CPU Speed	Flash capacity	Package code	Temperature range		Silicon family	Code of feature set in the specific family

CY Infineon

PSoC™ 4

1 16 MHz
2 24 MHz
4 48 MHz

0 PSoC™ 4000 Family
1 PSoC™ 4100 Family
2 PSoC™ 4200 Family
7 PSoC™ 4700 Family

4 16 KB
5 32 KB
6 64 KB
7 128 KB
8 256 KB
9 384 KB

LT/LQ/LW	QFN
AX	TQFP (0.8 mm pitch)
AZ	TQFP (0.5 mm pitch)
FN/FD	CSP
PV	SSOP
BU	BGA
SX	SOIC

A Automotive (AEC-Q100: -40 to +85°C)
S Automotive (AEC-Q100: -40 to +105°C)
E Automotive (AEC-Q100: -40 to +125°C)

S PSoC™ 4 S-Series
M PSoC™ 4 M-Series
L PSoC™ 4 L-Series

Automotive PSoC™ 4 Series

Product type/partnumber	Features																				Packages												Operating Temperature		
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I^2S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4000 Series																																				
CY8C4014SXA-421Z	16	16	2	–	–	●	–	–	–	1	1	1	–	–	–	–	–	–	–	10	●	–	–	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4014LQA-422Z	16	16	2	–	–	●	–	–	–	1	1	1	–	–	–	–	–	–	–	16	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4014SXS-421Z	16	16	2	–	–	●	–	–	–	1	1	1	–	–	–	–	–	–	–	10	●	–	–	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4014LQS-422Z	16	16	2	–	–	●	–	–	–	1	1	1	–	–	–	–	–	–	–	16	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4014SXE-421Z	16	16	2	–	–	●	–	–	–	1	1	1	–	–	–	–	–	–	–	10	●	–	–	–	–	–	–	–	–	–	–	–	–	–	●
CY8C4014LQE-422Z	16	16	2	–	–	●	–	–	–	1	1	1	–	–	–	–	–	–	–	16	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●
PSoC™ 4100 Series																																				
CY8C4124PVA-442Z	24	16	4	–	1	●	–	●	806 Ksps	2	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4125PVA-482Z	24	32	4	–	1	●	–	●	806 Ksps	2	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4124PVS-442Z	24	16	4	–	1	●	–	●	806 Ksps	2	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4125PVS-482Z	24	32	4	–	1	●	–	●	806 Ksps	2	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–
PSoC™ 4200 Series																																				
CY8C4244PVA-442Z	48	16	4	2	1	●	–	●	1000 Ksps	2	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–
CY8C4245PVA-452Z	48	32	4	4	–	–	–	●	–	0	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–
CY8C4245PVA-472Z	48	32	4	4	1	-		●	1000Ksps	2	4	2	-	-	-	-	-		-	24				●										●	–	–
CY8C4245PVA-482Z	48	32	4	4	1	●	–	●	1000 Ksps	2	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	●	–	–
CY8C4244PVS-442Z	48	16	4	2	1	●	–	●	1000 Ksps	2	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–
CY8C4245PVS-452Z	48	32	4	4	–	–	–	●	–	0	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–
CY8C4245PVS-472Z	48	32	4	4	1	–	–	●	1000 Ksps	2	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–
CY8C4245PVS-482Z	48	32	4	4	1	●	–	●	1000 Ksps	2	4	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages												Operating Temperature		
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I^2S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4000S-Series																																				
CY8C4024LQA-S413KA	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4025LQA-S413KA	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4045LQA-S413KA	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4024LQS-S413KA	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4025LQS-S413KA	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4045LQS-S413KA	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4024LQE-S413KA	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4025LQE-S413KA	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4045LQE-S413KA	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4024LDA-S413KA	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4025LDA-S413KA	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4045LDA-S413KA	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4024LDS-S413KA	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4025LDS-S413KA	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4045LDS-S413KA	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4024LDE-S413KA	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●
CY8C4025LDE-S413KA	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●
CY8C4045LDE-S413KA	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●
CY8C4024LQA-S411	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4024PVA-S412	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4025LQA-S411	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4025PVA-S412	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4045LQA-S411	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4045PVA-S412	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4024LQS-S411	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4024PVS-S412	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages												Operating Temperature		
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I²S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4000S-Series																																				
CY8C4025LQS-S411	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4025PVS-S412	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4045LQS-S411	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4045PVS-S412	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4024LQA-S411KA	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4025LQA-S411KA	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4045LQA-S411KA	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4024LQS-S411KA	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4025LQS-S411KA	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4045LQS-S411KA	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4024LQE-S411KA	24	16	2	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●
CY8C4025LQE-S411KA	24	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●
CY8C4045LQE-S411KA	48	32	4	–	–	●	–	–	–	2	5	2	–	–	–	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●
PSoC™ 4100S-Series																																				
CY8C4124LQA-S411KA	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4124LQA-S421KA	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4124LQA-S431KA	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4125LQA-S411KA	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4125LQA-S421KA	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4125LQA-S431KA	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4146LQA-S421KA	48	64	8	–	2	–	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4146LQA-S431KA	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4124LQS-S411KA	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4124LQS-S421KA	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4124LQS-S431KA	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages													Operating Temperature		
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I^2S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S-Series																																				
CY8C4125LQS-S411KA	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4125LQS-S421KA	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4125LQS-S431KA	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4146LQS-S421KA	48	64	8	–	2	–	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4146LQS-S431KA	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4124LQE-S411KA	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●
CY8C4124LQE-S421KA	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●
CY8C4124LQE-S431KA	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●
CY8C4125LQE-S411KA	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●
CY8C4125LQE-S421KA	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●
CY8C4125LQE-S431KA	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●
CY8C4146LQE-S421KA	48	64	8	–	2	–	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●
CY8C4146LQE-S431KA	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	19	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–	●
CY8C4124LDA-S413KA	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4124LDA-S423KA	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4124LDA-S433KA	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4125LDA-S413KA	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4125LDA-S423KA	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4125LDA-S433KA	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4146LDA-S423KA	48	64	8	–	2	–	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4146LDA-S433KA	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4124LDS-S413KA	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4124LDS-S423KA	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4124LDS-S433KA	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4125LDS-S413KA	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4125LDS-S423KA	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4125LDS-S433KA	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages													Operating Temperature		
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I^2S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S-Series																																				
CY8C4146LDS-S423KA	48	64	8	–	2	–	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4146LDS-S433KA	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4124LDE-S413KA	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4124LDE-S423KA	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4124LDE-S433KA	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4125LDE-S413KA	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4125LDE-S423KA	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4125LDE-S433KA	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4146LDE-S423KA	48	64	8	–	2	–	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4146LDE-S433KA	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4124PVA-S412	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4124LQA-S413	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4124PVA-S422	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4124LQA-S423	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4124PVA-S432	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4124LQA-S433	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4125PVA-S412	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4125LQA-S413	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4125PVA-S422	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4125LQA-S423	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4125PVA-S432	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4125LQA-S433	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4146PVA-S422	48	64	8	–	2	–	–	●	1000 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4146LQA-S423	48	64	8	–	2	–	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4146PVA-S432	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	●	–	–
CY8C4146LQA-S433	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4124PVS-S412	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages												Operating Temperature		
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I^2S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S-Series																																				
CY8C4124LQS-S413	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4124PVS-S422	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4124LQS-S423	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4124PVS-S432	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4124LQS-S433	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4125PVS-S412	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4125LQS-S413	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4125PVS-S422	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4125LQS-S423	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4125PVS-S432	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4125LQS-S433	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4146PVS-S422	48	64	8	–	2	–	–	●	1000 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4146LQS-S423	48	64	8	–	2	–	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4146PVS-S432	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	●	–
CY8C4146LQS-S433	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4124PVE-S412	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●
CY8C4124LQE-S413	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4124PVE-S422	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●
CY8C4124LQE-S423	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4124PVE-S432	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●
CY8C4124LQE-S433	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4125PVE-S412	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●
CY8C4125LQE-S413	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4125PVE-S422	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●
CY8C4125LQE-S423	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4125PVE-S432	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●
CY8C4125LQE-S433	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages												Operating Temperature		
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I²S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S-Series																																				
CY8C4146PVE-S422	48	64	8	–	2	–	–	●	1000 Ksps	2	5	2	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●
CY8C4146LQE-S423	48	64	8	–	2	–	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4146PVE-S432	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	24	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	●
CY8C4146LQE-S433	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4124LQA-S423KA	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4124LQA-S433KA	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4125LQA-S413KA	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4125LQA-S423KA	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4125LQA-S433KA	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4146LQA-S423KA	48	64	8	–	2	–	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4146LQA-S433KA	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4124LQS-S413KA	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4124LQS-S423KA	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4124LQS-S433KA	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4125LQS-S413KA	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4125LQS-S423KA	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4125LQS-S433KA	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4146LQS-S423KA	48	64	8	–	2	–	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4146LQS-S433KA	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4124LQE-S413KA	24	16	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4124LQE-S423KA	24	16	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4124LQE-S433KA	24	16	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4125LQE-S413KA	24	32	4	–	2	●	–	●	–	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4125LQE-S423KA	24	32	4	–	2	–	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4125LQE-S433KA	24	32	4	–	2	●	–	●	806 Ksps	2	5	2	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4146LQE-S423KA	48	64	8	–	2	–	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4146LQE-S433KA	48	64	8	–	2	●	–	●	1000 Ksps	2	5	3	–	–	16	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages														Operating Temperature		
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I²S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S Plus Series																																				
CY8C4126LDA-S453KA	24	64	8	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4146LDA-S243KA	48	64	8	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4146LDA-S253KA	48	64	8	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4146LDA-S263KA	48	64	8	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4146LDA-S273KA	48	64	8	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4146LDA-S453KA	48	64	8	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4127LDA-S443KA	24	128	16	–	2	–	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4127LDA-S453KA	24	128	16	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4147LDA-S243KA	48	128	16	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4147LDA-S253KA	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4147LDA-S263KA	48	128	16	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4147LDA-S273KA	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4147LDA-S283KA	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4147LDA-S293KA	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4147LDA-S443KA	48	128	16	–	2	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4147LDA-S453KA	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4147LDA-S463KA	48	128	16	–	2	–	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4147LDA-S473KA	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4126LDS-S453KA	24	64	8	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4146LDS-S243KA	48	64	8	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4146LDS-S253KA	48	64	8	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4146LDS-S263KA	48	64	8	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4146LDS-S273KA	48	64	8	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4146LDS-S453KA	48	64	8	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4127LDS-S443KA	24	128	16	–	2	–	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4127LDS-S453KA	24	128	16	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4147LDS-S243KA	48	128	16	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4147LDS-S253KA	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages													Operating Temperature		
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I²S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S Plus Series																																				
CY8C4147LDS-S263KA	48	128	16	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4147LDS-S273KA	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4147LDS-S283KA	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4147LDS-S293KA	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4147LDS-S443KA	48	128	16	–	2	-	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4147LDS-S453KA	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4147LDS-S463KA	48	128	16	–	2	-	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4147LDS-S473KA	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4126LDE-S453KA	24	64	8	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4146LDE-S243KA	48	64	8	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4146LDE-S253KA	48	64	8	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4146LDE-S263KA	48	64	8	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4146LDE-S273KA	48	64	8	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4146LDE-S453KA	48	64	8	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4127LDE-S443KA	24	128	16	–	2	-	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4127LDE-S453KA	24	128	16	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4147LDE-S243KA	48	128	16	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4147LDE-S253KA	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4147LDE-S263KA	48	128	16	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4147LDE-S273KA	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4147LDE-S283KA	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4147LDE-S293KA	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4147LDE-S443KA	48	128	16	–	2	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4147LDE-S453KA	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4147LDE-S463KA	48	128	16	–	2	–	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4147LDE-S473KA	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	38	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●
CY8C4126AZA-S455	24	64	8	–	2	●	–	●	806 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages													Operating Temperature		
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I^2S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S Plus Series																																				
CY8C4146AZA-S245	48	64	8	–	–	–	–	–	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4146AZA-S255	48	64	8	–	–	–	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4146AZA-S265	48	64	8	–	–	●	–	–	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4146AZA-S275	48	64	8	–	–	●	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4146AZA-S455	48	64	8	–	2	●	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4127AZA-S445	24	128	16	–	2	–	–	●	806 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4127AZA-S455	24	128	16	–	2	●	–	●	806 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4147AZA-S245	48	128	16	–	–	–	–	–	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4147AZA-S255	48	128	16	–	–	–	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4147AZA-S265	48	128	16	–	–	●	–	–	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4147AZA-S275	48	128	16	–	–	●	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4147AZA-S285	48	128	16	–	–	–	–	●	1000 Ksps	2	8	5	●	●	24	1	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4147AZA-S295	48	128	16	–	–	●	–	●	1000 Ksps	2	8	5	●	●	24	1	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4147AZA-S445	48	128	16	–	2	–	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4147AZA-S455	48	128	16	–	2	●	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4147AZA-S465	48	128	16	–	2	–	–	●	1000 Ksps	2	8	5	●	●	24	1	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4147AZA-S475	48	128	16	–	2	●	–	●	1000 Ksps	2	8	5	●	●	24	1	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4126AZS-S455	24	64	8	–	2	●	–	●	806 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–
CY8C4146AZS-S245	48	64	8	–	–	–	–	–	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–
CY8C4146AZS-S255	48	64	8	–	–	–	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–
CY8C4146AZS-S265	48	64	8	–	–	●	–	–	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–
CY8C4146AZS-S275	48	64	8	–	–	●	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–
CY8C4146AZS-S455	48	64	8	–	2	●	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–
CY8C4127AZS-S445	24	128	16	–	2	–	–	●	806 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–
CY8C4127AZS-S455	24	128	16	–	2	●	–	●	806 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–
CY8C4147AZS-S245	48	128	16	–	–	–	–	–	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–
CY8C4147AZS-S255	48	128	16	–	–	–	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages													Operating Temperature		
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I^2S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S Plus Series																																				
CY8C4147AZS-S265	48	128	16	–	–	●	–	–	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–
CY8C4147AZS-S275	48	128	16	–	–	●	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–
CY8C4147AZS-S285	48	128	16	–	–	–	–	●	1000 Ksps	2	8	5	●	●	24	1	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–
CY8C4147AZS-S295	48	128	16	–	–	●	–	●	1000 Ksps	2	8	5	●	●	24	1	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–
CY8C4147AZS-S445	48	128	16	–	2	–	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–
CY8C4147AZS-S455	48	128	16	–	2	●	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–
CY8C4147AZS-S465	48	128	16	–	2	–	–	●	1000 Ksps	2	8	5	●	●	24	1	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–
CY8C4147AZS-S475	48	128	16	–	2	●	–	●	1000 Ksps	2	8	5	●	●	24	1	–	–	–	54	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–
CY8C4126LQA-S453	24	64	8	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4146LQA-S243	48	64	8	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4146LQA-S253	48	64	8	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4146LQA-S263	48	64	8	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4146LQA-S273	48	64	8	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4146LQA-S453	48	64	8	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4127LQA-S443	24	128	16	–	2	–	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4127LQA-S453	24	128	16	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S243	48	128	16	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S253	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S263	48	128	16	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S273	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S283	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S293	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S443	48	128	16	–	2	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S453	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S463	48	128	16	–	2	–	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S473	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4126LQS-S453	24	64	8	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages														Operating Temperature		
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I²S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S Plus Series																																				
CY8C4146LQS-S243	48	64	8	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4146LQS-S253	48	64	8	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4146LQS-S263	48	64	8	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4146LQS-S273	48	64	8	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4146LQS-S453	48	64	8	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4127LQS-S443	24	128	16	–	2	–	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4127LQS-S453	24	128	16	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4147LQS-S243	48	128	16	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4147LQS-S253	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4147LQS-S263	48	128	16	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4147LQS-S273	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4147LQS-S283	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4147LQS-S293	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4147LQS-S443	48	128	16	–	2	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4147LQS-S453	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4147LQS-S463	48	128	16	–	2	–	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4147LQS-S473	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4126LQE-S453	24	64	8	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4146LQE-S243	48	64	8	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4146LQE-S253	48	64	8	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4146LQE-S263	48	64	8	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4146LQE-S273	48	64	8	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4146LQE-S453	48	64	8	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4127LQE-S443	24	128	16	–	2	–	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4127LQE-S453	24	128	16	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4147LQE-S243	48	128	16	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4147LQE-S253	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages												Operating Temperature		
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I²S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S Plus Series																																				
CY8C4147LQE-S263	48	128	16	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4147LQE-S273	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4147LQE-S283	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4147LQE-S293	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4147LQE-S443	48	128	16	–	2	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4147LQE-S453	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4147LQE-S463	48	128	16	–	2	–	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4147LQE-S473	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4126AZE-S455	24	64	8	–	2	●	–	●	806 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
CY8C4146AZE-S245	48	64	8	–	–	–	–	–	1000 Ksps	2	8	5	●	●	–	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
CY8C4146AZE-S255	48	64	8	–	–	–	–	●	1000 Ksps	2	8	5	●	●	–	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
CY8C4146AZE-S265	48	64	8	–	–	●	–	–	1000 Ksps	2	8	5	●	●	–	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
CY8C4146AZE-S275	48	64	8	–	–	●	–	●	1000 Ksps	2	8	5	●	●	–	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
CY8C4146AZE-S455	48	64	8	–	2	●	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
CY8C4127AZE-S445	24	128	16	–	2	–	–	●	806 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
CY8C4127AZE-S455	24	128	16	–	2	●	–	●	806 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
CY8C4147AZE-S245	48	128	16	–	–	–	–	–	1000 Ksps	2	8	5	●	●	–	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
CY8C4147AZE-S255	48	128	16	–	–	–	–	●	1000 Ksps	2	8	5	●	●	–	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
CY8C4147AZE-S265	48	128	16	–	–	●	–	–	1000 Ksps	2	8	5	●	●	–	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
CY8C4147AZE-S275	48	128	16	–	–	●	–	●	1000 Ksps	2	8	5	●	●	–	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
CY8C4147AZE-S285	48	128	16	–	–	–	–	●	1000 Ksps	2	8	5	●	●	24	1	–	–	–	54	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
CY8C4147AZE-S295	48	128	16	–	–	●	–	●	1000 Ksps	2	8	5	●	●	24	1	–	–	–	54	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
CY8C4147AZE-S445	48	128	16	–	2	–	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
CY8C4147AZE-S455	48	128	16	–	2	●	–	●	1000 Ksps	2	8	5	●	●	24	–	–	–	–	54	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
CY8C4147AZE-S465	48	128	16	–	2	–	–	●	1000 Ksps	2	8	5	●	●	24	1	–	–	–	54	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
CY8C4147AZE-S475	48	128	16	–	2	●	–	●	1000 Ksps	2	8	5	●	●	24	1	–	–	–	54	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●
CY8C4126LQA-S453KA	24	64	8	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–
CY8C4146LQA-S243KA	48	64	8	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–	–

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages														Operating Temperature		
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I²S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S Plus Series																																				
CY8C4146LQA-S253KA	48	64	8	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4146LQA-S263KA	48	64	8	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4146LQA-S273KA	48	64	8	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4146LQA-S453KA	48	64	8	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4127LQA-S443KA	24	128	16	–	2	-	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4127LQA-S453KA	24	128	16	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S243KA	48	128	16	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S253KA	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S263KA	48	128	16	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S273KA	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S283KA	48	128	16	–	–	-	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S293KA	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S443KA	48	128	16	–	2	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S453KA	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S463KA	48	128	16	–	2	-	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4147LQA-S473KA	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4126LQS-S453KA	24	64	8	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4146LQS-S243KA	48	64	8	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4146LQS-S253KA	48	64	8	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4146LQS-S263KA	48	64	8	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4146LQS-S273KA	48	64	8	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4146LQS-S453KA	48	64	8	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4127LQS-S443KA	24	128	16	–	2	–	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4127LQS-S453KA	24	128	16	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4147LQS-S243KA	48	128	16	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4147LQS-S253KA	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4147LQS-S263KA	48	128	16	–	–	●	–	–	–	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4147LQS-S273KA	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages													Operating Temperature		
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I^2S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100S Plus Series																																				
CY8C4147LQS-S283KA	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4147LQS-S293KA	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4147LQS-S443KA	48	128	16	–	2	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4147LQS-S453KA	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4147LQS-S463KA	48	128	16	–	2	–	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4147LQS-S473KA	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4126LQE-S453KA	24	64	8	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4146LQE-S243KA	48	64	8	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4146LQE-S253KA	48	64	8	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4146LQE-S263KA	48	64	8	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4146LQE-S273KA	48	64	8	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4146LQE-S453KA	48	64	8	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4127LQE-S443KA	24	128	16	–	2	-	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4127LQE-S453KA	24	128	16	–	2	●	–	●	806 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4147LQE-S243KA	48	128	16	–	–	–	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4147LQE-S253KA	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4147LQE-S263KA	48	128	16	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4147LQE-S273KA	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4147LQE-S283KA	48	128	16	–	–	–	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4147LQE-S293KA	48	128	16	–	–	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4147LQE-S443KA	48	128	16	–	2	–	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4147LQE-S453KA	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4147LQE-S463KA	48	128	16	–	2	–	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●
CY8C4147LQE-S473KA	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	1	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	–	●

Automotive PSoC™ 4 S-Series

Product type/partnumber	Features																				Packages													Operating Temperature		
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I^2S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4700S Plus Series																																				
CY8C4746LQS-S263	48	64	8	–	–	●	–	–	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–
CY8C4747LQS-S453	48	128	16	–	2	●	–	●	1000 Ksps	2	8	4	●	●	24	–	–	–	–	34	–	–	–	–	–	●	–	–	–	–	–	–	–	–	●	–

Automotive PSoC™ 4 M-Series

Product type/partnumber	Features																				Packages														Operating Temperature		
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I^2S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4100M-Series																																				
CY8C4125AZA-M443	24	32	4	–	2	●	–	●	806 Ksps	2	8	4	●	–	–	–	–	–	–	38	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4125AZA-M445	24	32	4	–	2	●	–	●	806 Ksps	2	8	4	●	–	–	–	–	–	–	51	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4126AZA-M443	24	64	8	–	2	●	–	●	806 Ksps	2	8	4	●	–	–	–	–	–	–	38	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4126AZA-M445	24	64	8	–	2	●	–	●	806 Ksps	2	8	4	●	–	–	–	–	–	–	51	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4127AZA-M485	24	128	16	–	4	●	–	●	806 Ksps	2	8	4	●	–	–	–	–	–	–	51	–	–	–	–	–	–	–	–	–	–	●	–	–	●	–	–
CY8C4125AZS-M443	24	32	4	–	2	●	–	●	806 Ksps	2	8	4	●	–	–	–	–	–	–	38	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4125AZS-M445	24	32	4	–	2	●	–	●	806 Ksps	2	8	4	●	–	–	–	–	–	–	51	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–
CY8C4126AZS-M443	24	64	8	–	2	●	–	●	806 Ksps	2	8	4	●	–	–	–	–	–	–	38	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4126AZS-M445	24	64	8	–	2	●	–	●	806 Ksps	2	8	4	●	–	–	–	–	–	–	51	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–
CY8C4127AZS-M485	24	128	16	–	4	●	–	●	806 Ksps	2	8	4	●	–	–	–	–	–	–	51	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–

Automotive PSoC™ 4 M-Series

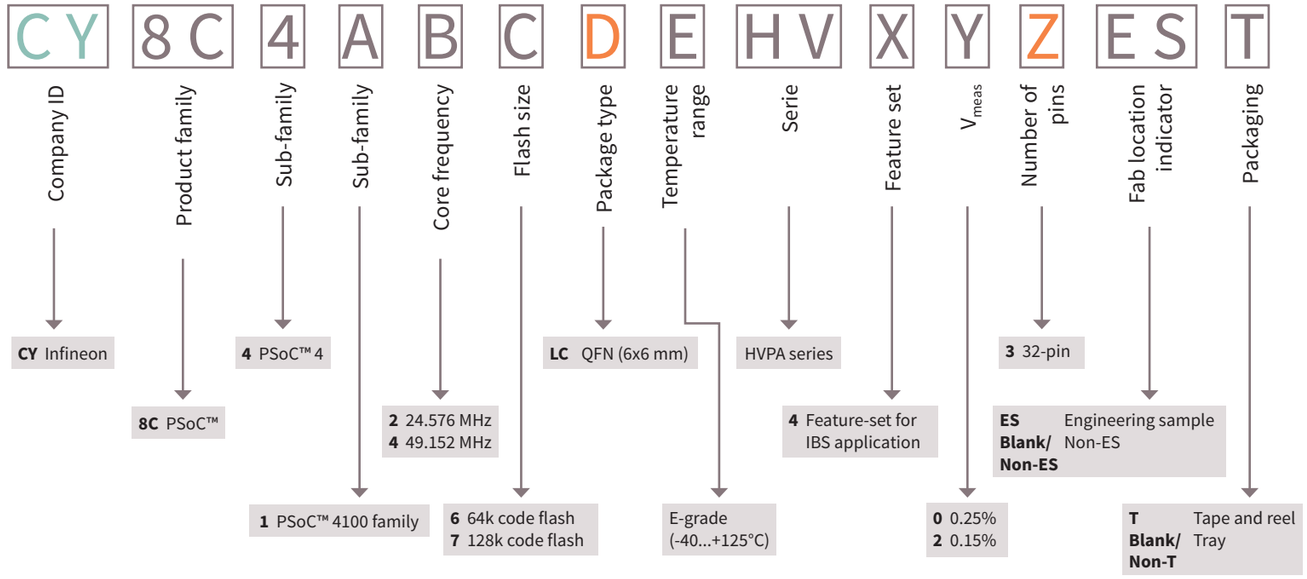
Product type/partnumber	Features																				Packages														Operating Temperature		
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I^2S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	VFBGA-124	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4200M-Series																																					
CY8C4245AZA-M443	48	32	4	4	2	●	–	●	1000 Ksps	2	8	4	●	–	–	–	–	–	–	38	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4245AZA-M445	48	32	4	4	2	●	–	●	1000 Ksps	2	8	4	●	–	–	–	–	–	–	51	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–	–
CY8C4246AZA-M443	48	64	8	4	2	●	–	●	1000 Ksps	2	8	4	●	–	–	–	–	–	–	38	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4246AZA-M445	48	64	8	4	2	●	–	●	1000 Ksps	2	8	4	●	–	–	–	–	–	–	51	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–	–
CY8C4247LWA-M464	48	128	16	4	4	●	–	●	1000 Ksps	2	8	4	●	–	–	–	–	–	–	46	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4247AZA-M475	48	128	16	4	4	–	–	●	1000 Ksps	2	8	4	●	–	–	–	–	–	–	51	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–	–
CY8C4247AZA-M483	48	128	16	4	4	●	–	●	1000 Ksps	2	8	4	●	–	–	2	–	–	–	38	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–
CY8C4247AZA-M485	48	128	16	4	4	●	–	●	1000 Ksps	2	8	4	●	–	–	2	–	–	–	51	–	–	–	–	–	–	–	–	–	–	●	–	–	–	●	–	–
CY8C4247LWA-M484	48	128	16	4	4	●	–	●	1000 Ksps	2	8	4	●	–	–	2	–	–	–	46	–	–	–	–	–	–	–	–	●	–	–	–	–	–	●	–	–
CY8C4245AZS-M443	48	32	4	4	2	●	–	●	1000 Ksps	2	8	4	●	–	–	–	–	–	–	38	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4245AZS-M445	48	32	4	4	2	●	–	●	1000 Ksps	2	8	4	●	–	–	–	–	–	–	51	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–
CY8C4246AZS-M443	48	64	8	4	2	●	–	●	1000 Ksps	2	8	4	●	–	–	–	–	–	–	38	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4246AZS-M445	48	64	8	4	2	●	–	●	1000 Ksps	2	8	4	●	–	–	–	–	–	–	51	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–
CY8C4247LWS-M464	48	128	16	4	4	●	–	●	1000 Ksps	2	8	4	●	–	–	–	–	–	–	46	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–
CY8C4247AZS-M475	48	128	16	4	4	–	–	●	1000 Ksps	2	8	4	●	–	–	–	–	–	–	51	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–
CY8C4247AZS-M483	48	128	16	4	4	●	–	●	1000 Ksps	2	8	4	●	–	–	2	–	–	–	38	–	–	–	–	–	–	–	●	–	–	–	–	–	–	–	●	–
CY8C4247AZS-M485	48	128	16	4	4	●	–	●	1000 Ksps	2	8	4	●	–	–	2	–	–	–	51	–	–	–	–	–	–	–	–	–	–	●	–	–	–	–	●	–
CY8C4247LWS-M484	48	128	16	4	4	●	–	●	1000 Ksps	2	8	4	●	–	–	2	–	–	–	46	–	–	–	–	–	–	–	–	●	–	–	–	–	–	–	●	–

Automotive PSoC™ 4 L-Series

Product type/partnumber	Features																				Packages															Operating Temperature		
	Max. CPU Speed [MHz]	Flash [KB]	SRAM [KB]	UDB	Op Amp [CTBm]	CapSense	I^2S	Direct LCD drive	12-bit SAR ADC	LP comparators	TCPWM blocks	SCB blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	CXPI	GPIO	SOIC-16	SSOP-20	QFN-24	SSOP-28	QFN-32	QFN-40	QFN-48	TQFP-48	QFN-56	WQFN-64	TQFP-64	TQFP-80	TQFP-100	VFBGA-124	-40 to +85°C	-40 to +105°C	-40 to +125°C
PSoC™ 4200L-Series																																					
CY8C4248BZA-L489	48	256	32	8	4	●	–	●	1000 Ksps	2	8	4	–	–	–	–	–	–	–	98	–	–	–	–	–	–	–	–	–	–	–	–	●	●	–	–
CY8C4248BZS-L489	48	256	32	8	4	●	–	●	1000 Ksps	2	8	4	–	–	–	–	–	–	–	98	–	–	–	–	–	–	–	–	–	–	–	–	●	–	●	–

PSoC™ 4 High Voltage

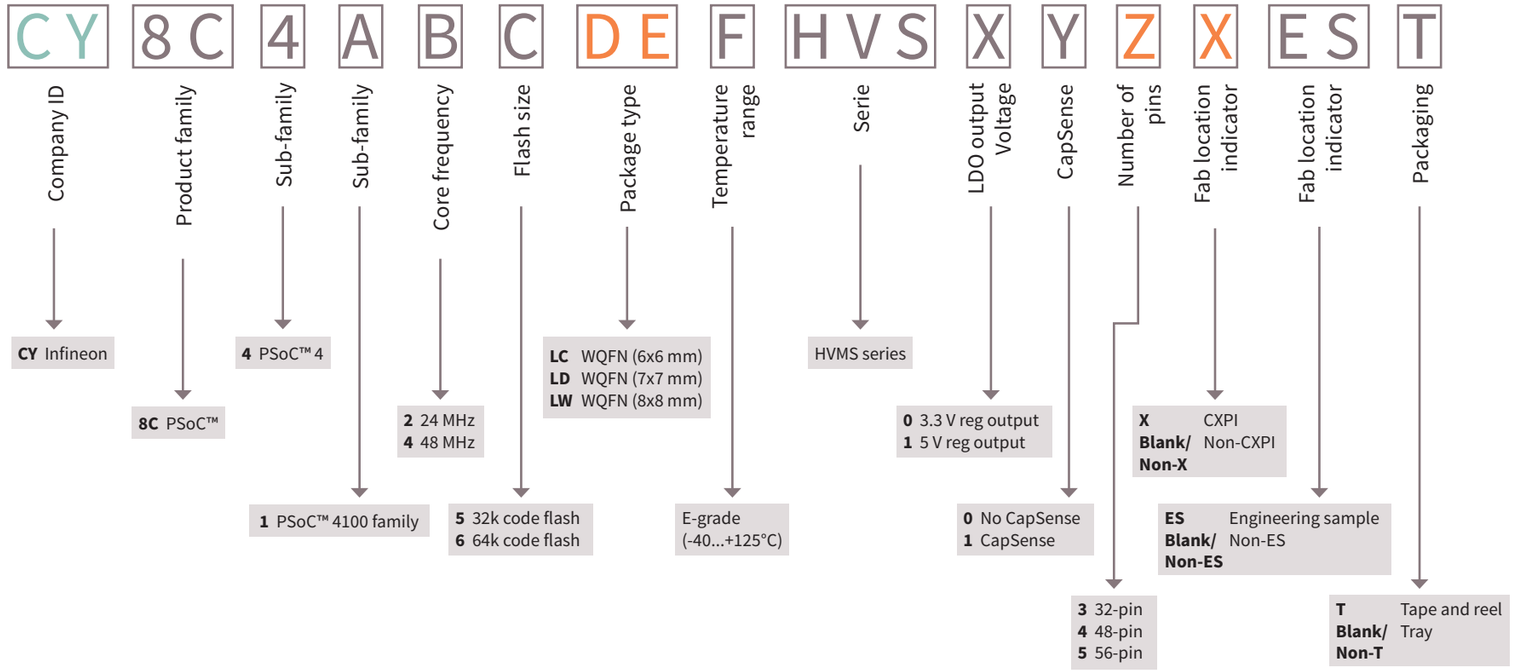
PSoC™ 4 HV PA (High Voltage Precision Analog)



Product type/partnumber	Features												Packages QFN-32 (6x6 mm)	Operating Temperature -40 to +125°C
	Max. CPU Speed [MHz]	Code Flash [KB] with ECC	Data Flash [KB] with ECC	SRAM [KB] with ECC	16–20-bit precision ΔΣ ADC	High voltage measurement los (with HV divider)	Voltage measurement accuracy	TCPWM blocks	SCB blocks	LIN	High Voltage Subsystem (LDO, LIN PHY)	GPIO		
PSoC™ 4 HV PA 144K														
CY8C4126LCE-HV403	24	64	8	4	2	2	0.25%	4	1	1	●	8	●	●
CY8C4126LCE-HV423	24	64	8	4	2	2	0.15% [1)]	4	1	1	●	8	●	●
CY8C4127LCE-HV403	24	128	8	8	2	2	0.25%	4	1	1	●	8	●	●
CY8C4127LCE-HV423	24	128	8	8	2	2	0.15% [1)]	4	1	1	●	8	●	●
CY8C4147LCE-HV403	48	128	8	8	2	2	0.25%	4	1	1	●	8	●	●
CY8C4147LCE-HV423	48	128	8	8	2	2	0.15% [1)]	4	1	1	●	8	●	●

1) 11 V < V_{BAT} <14V, -40°C < T_A < 85°C

PSoC™ 4 HV MS (High voltage Mixed Signal)

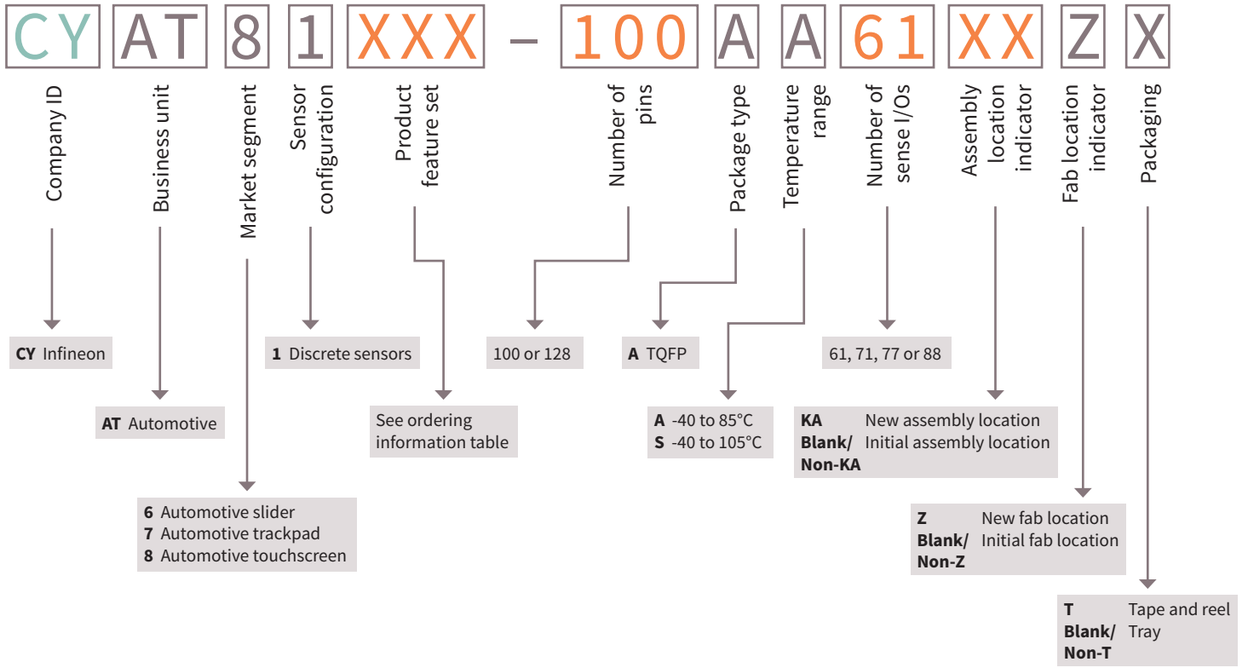


PSoC™ 4 HV MS (High voltage Mixed Signal)

Product type/partnumber	Features																	Packages			Operating Temperature -40 to +125°C
	Max. CPU Speed [MHz]	Flash [KB] with ECC	SRAM [KB] with ECC	MSC (CapSense)	12-bit SAR ADC	LP comparators	TCPWM blocks	LIN (mxlin controller)	CXPI (cxpi controller)	SCB blocks	HV Div (VBAT meas)	HV LDO	LDO output V for internal and external supply [V]	LIN PHY	CXPI PHY	GPIO	SMART IO	QFN-32 (6x6 mm)	QFN-48 (7x7mm)	QFN-56 (8x8mm)	
PSoC™ 4 HV MS 64K																					
CY8C4125LCE-HVS003	24	32	4	–	●	2	5	1	–	2	●	●	3.3	●	–	18	10	●	–	–	●
CY8C4125LCE-HVS013	24	32	4	●	●	2	5	1	–	2	●	●	3.3	●	–	18	10	●	–	–	●
CY8C4126LCE-HVS003	24	64	8	–	●	2	5	1	–	2	●	●	3.3	●	–	18	10	●	–	–	●
CY8C4126LCE-HVS013	24	64	8	●	●	2	5	1	–	2	●	●	3.3	●	–	18	10	●	–	–	●
CY8C4146LCE-HVS003	48	64	8	–	●	2	5	1	–	2	●	●	3.3	●	–	18	10	●	–	–	●
CY8C4146LCE-HVS013	48	64	8	●	●	2	5	1	–	2	●	●	3.3	●	–	18	10	●	–	–	●
CY8C4146LCE-HVS003X	48	64	8	–	●	2	5	1	1	2	●	●	3.3	●	●	18	10	●	–	–	●
CY8C4146LCE-HVS013X	48	64	8	●	●	2	5	1	1	2	●	●	3.3	●	●	18	10	●	–	–	●
CY8C4125LCE-HVS103	24	32	4	–	●	2	5	1	–	2	●	●	5	●	–	18	10	●	–	–	●
CY8C4125LCE-HVS113	24	32	4	●	●	2	5	1	–	2	●	●	5	●	–	18	10	●	–	–	●
CY8C4126LCE-HVS103	24	64	8	–	●	2	5	1	–	2	●	●	5	●	–	18	10	●	–	–	●
CY8C4126LCE-HVS113	24	64	8	●	●	2	5	1	–	2	●	●	5	●	–	18	10	●	–	–	●
CY8C4146LCE-HVS103	48	64	8	–	●	2	5	1	–	2	●	●	5	●	–	18	10	●	–	–	●
CY8C4146LCE-HVS113	48	64	8	●	●	2	5	1	–	2	●	●	5	●	–	18	10	●	–	–	●
CY8C4146LCE-HVS103X	48	64	8	–	●	2	5	1	1	2	●	●	5	●	●	18	10	●	–	–	●
CY8C4146LCE-HVS113X	48	64	8	●	●	2	5	1	1	2	●	●	5	●	●	18	10	●	–	–	●
CY8C4125LDE-HVS004	24	32	4	–	●	2	5	1	–	2	●	●	3.3	●	–	33	16	–	●	–	●
CY8C4125LDE-HVS014	24	32	4	●	●	2	5	1	–	2	●	●	3.3	●	–	33	16	–	●	–	●
CY8C4126LDE-HVS004	24	64	8	–	●	2	5	1	–	2	●	●	3.3	●	–	33	16	–	●	–	●
CY8C4126LDE-HVS014	24	64	8	●	●	2	5	1	–	2	●	●	3.3	●	–	33	16	–	●	–	●
CY8C4146LDE-HVS004	48	64	8	–	●	2	5	1	–	2	●	●	3.3	●	–	33	16	–	●	–	●
CY8C4146LDE-HVS014	48	64	8	●	●	2	5	1	–	2	●	●	3.3	●	–	33	16	–	●	–	●
CY8C4146LDE-HVS004X	48	64	8	–	●	2	5	1	1	2	●	●	3.3	●	●	33	16	–	●	–	●
CY8C4146LDE-HVS014X	48	64	8	●	●	2	5	1	1	2	●	●	3.3	●	●	33	16	–	●	–	●
CY8C4125LDE-HVS104	24	32	4	–	●	2	5	1	–	2	●	●	5	●	–	33	16	–	●	–	●
CY8C4125LDE-HVS114	24	32	4	●	●	2	5	1	–	2	●	●	5	●	–	33	16	–	●	–	●
CY8C4126LDE-HVS104	24	64	8	–	●	2	5	1	–	2	●	●	5	●	–	33	16	–	●	–	●
CY8C4126LDE-HVS114	24	64	8	●	●	2	5	1	–	2	●	●	5	●	–	33	16	–	●	–	●

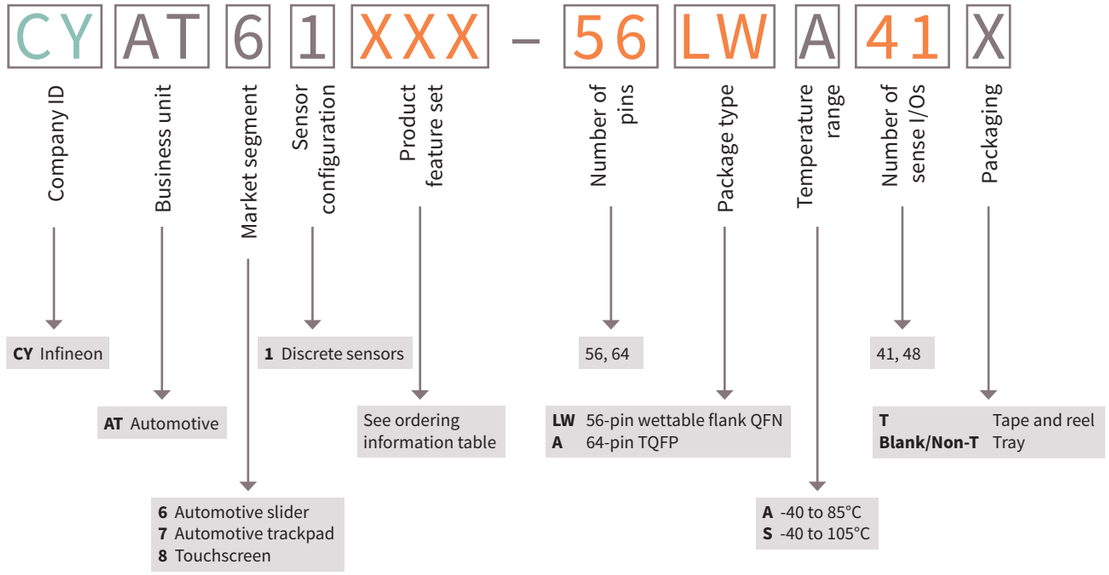
PSoC™ Automotive Multitouch

Gen6XL – First high performance single chip Touch Controller



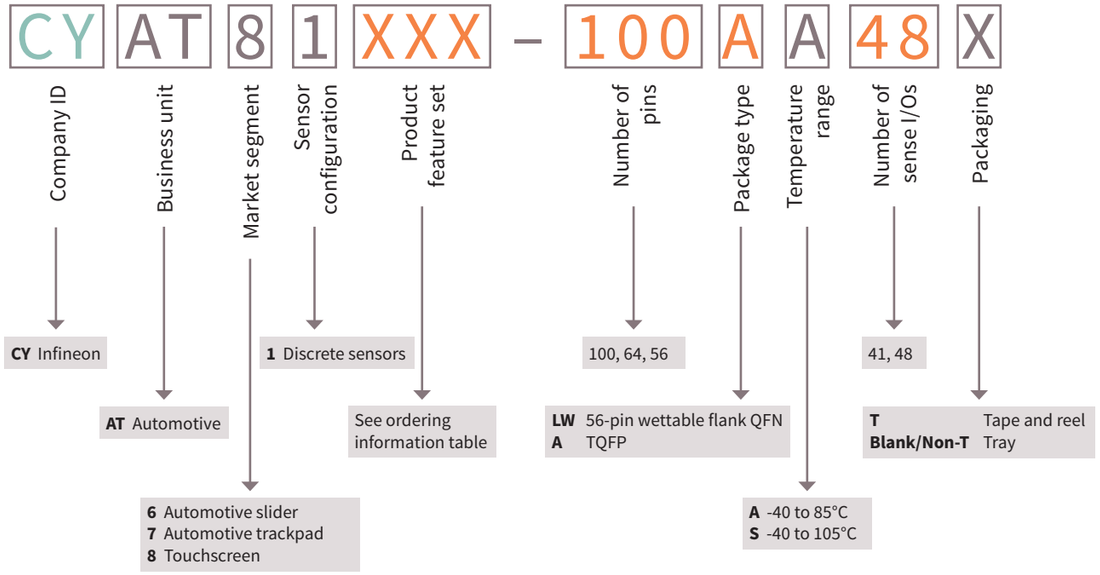
Product type/ partnumber	Number of sense pins	Number of fingers	Wake-up button support	CapSense buttons	Water rejection	Thin glove support	Display Armor	Gesture	Thick overlay/ thick glove support	5 V Tx	Package
CYAT81682-100AA61Z	61	10	–	●	●	●	●	–	–	–	TQFP-100
CYAT81682-100AS61Z	61	10	–	●	●	●	●	–	–	–	TQFP-100
CYAT81682-100AA71Z	71	10	–	●	●	●	●	–	–	–	TQFP-100
CYAT81682-100AS71Z	71	10	–	●	●	●	●	–	–	–	TQFP-100
CYAT81682-100AA77Z	77	10	–	●	●	●	●	–	–	–	TQFP-100
CYAT81682-100AS77Z	77	10	–	●	●	●	●	–	–	–	TQFP-100
CYAT81682-128AA88Z	88	10	–	●	●	●	●	–	–	–	TQFP-128
CYAT81682-128AS88Z	88	10	–	●	●	●	●	–	–	–	TQFP-128
CYAT81685-100AA61Z	61	10	–	●	●	●	●	●	–	–	TQFP-100
CYAT81685-100AS61Z	61	10	–	●	●	●	●	●	–	–	TQFP-100
CYAT81685-100AA71Z	71	10	–	●	●	●	●	●	–	–	TQFP-100
CYAT81685-100AS71Z	71	10	–	●	●	●	●	●	–	–	TQFP-100
CYAT81685-100AA77Z	77	10	–	●	●	●	●	●	–	–	TQFP-100
CYAT81685-100AS77Z	77	10	–	●	●	●	●	●	–	–	TQFP-100
CYAT81685-128AA88Z	88	10	–	●	●	●	●	●	–	–	TQFP-128
CYAT81685-128AS88Z	88	10	–	●	●	●	●	●	–	–	TQFP-128
CYAT81688-100AA61Z	61	10	–	●	●	●	●	●	●	●	TQFP-100
CYAT81688-100AS61Z	61	10	–	●	●	●	●	●	●	●	TQFP-100
CYAT81688-100AA71Z	71	10	–	●	●	●	●	●	●	●	TQFP-100
CYAT81688-100AS71Z	71	10	–	●	●	●	●	●	●	●	TQFP-100
CYAT81688-100AA77Z	77	10	–	●	●	●	●	●	●	●	TQFP-100
CYAT81688-100AS77Z	77	10	–	●	●	●	●	●	●	●	TQFP-100
CYAT81688-128AA88Z	88	10	–	●	●	●	●	●	●	●	TQFP-128
CYAT81688-128AS88Z	88	10	–	●	●	●	●	●	●	●	TQFP-128
CYAT81689-100AA61Z	61	10	●	●	●	●	●	●	●	●	TQFP-100
CYAT81689-100AS61Z	61	10	●	●	●	●	●	●	●	●	TQFP-100
CYAT81689-100AA71Z	71	10	●	●	●	●	●	●	●	●	TQFP-100
CYAT81689-100AS71Z	71	10	●	●	●	●	●	●	●	●	TQFP-100
CYAT81689-100AA77Z	77	10	●	●	●	●	●	●	●	●	TQFP-100
CYAT81689-100AS77Z	77	10	●	●	●	●	●	●	●	●	TQFP-100
CYAT81689-128AA88Z	88	10	●	●	●	●	●	●	●	●	TQFP-128
CYAT81689-128AS88Z	88	10	●	●	●	●	●	●	●	●	TQFP-128

Gen6L – Slider slider solution



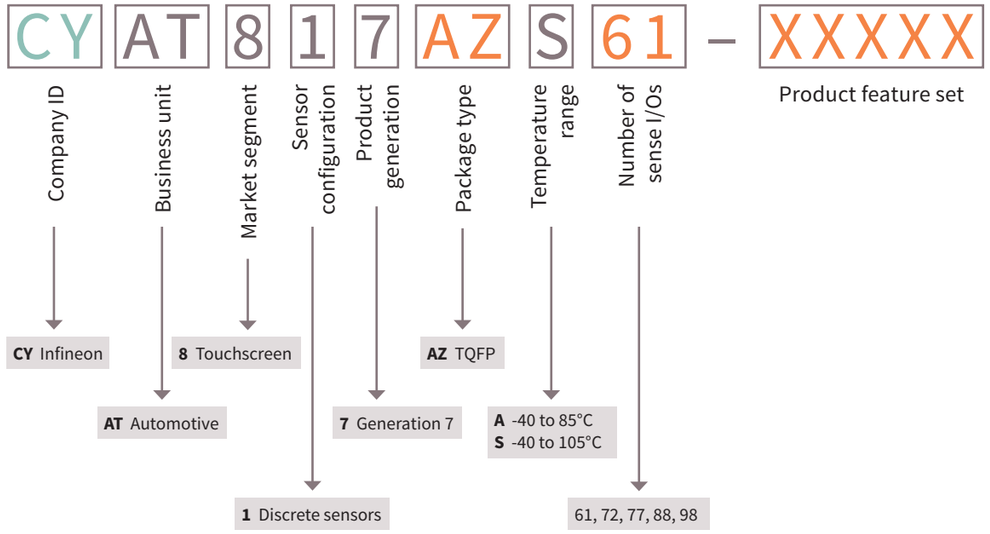
Product type/ partnumber	Number of sense pins	Number of fingers	Slider	Wake up button support	CapSense buttons	Water rejection	Thin glove support	Gestures	Thick overlay/ Thick glove support	Package
CYAT61652-56LWA41	41	10	●	–	●	●	●	–	–	QFN-56
CYAT61652-56LWS41	41	10	●	–	●	●	●	–	–	QFN-56
CYAT61658-56LWA41	41	10	●	–	●	●	●	–	●	QFN-56
CYAT61658-56LWS41	41	10	●	–	●	●	●	–	●	QFN-56
CYAT61659-56LWA41	41	10	●	●	●	●	●	–	●	QFN-56
CYAT61659-56LWS41	41	10	●	●	●	●	●	–	●	QFN-56
CYAT61652-64AA48	48	10	●	–	●	●	●	–	–	TQFP-64
CYAT61652-64AS48	48	10	●	–	●	●	●	–	–	TQFP-64
CYAT61658-64AA48	48	10	●	–	●	●	●	–	●	TQFP-64
CYAT61658-64AS48	48	10	●	–	●	●	●	–	●	TQFP-64
CYAT61659-64AA48	48	10	●	●	●	●	●	–	●	TQFP-64
CYAT61659-64AS48	48	10	●	●	●	●	●	–	●	TQFP-64

Gen6L – Low cost Touch controller solution



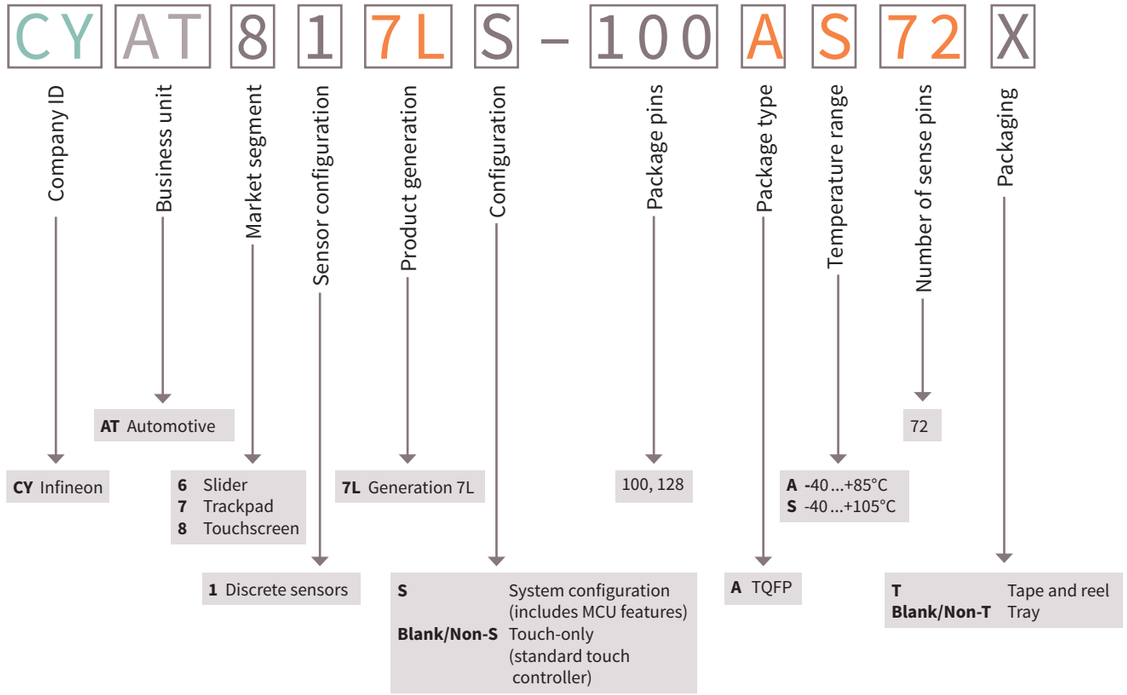
Product type/ partnumber	Number of sense pins	Number of fingers	Wake up button support/ wake-on-screen support	CapSense buttons	Water rejection	Thin glove support	Gestures	Thick overlay/ Thick glove support	Package
CYAT81650-100AA48	48	10	–	–	–	–	–	–	TQFP-100
CYAT81650-100AS48	48	10	–	–	–	–	–	–	TQFP-100
CYAT81652-100AA48	48	10	–	●	●	●	–	–	TQFP-100
CYAT81652-100AS48	48	10	–	●	●	●	–	–	TQFP-100
CYAT81655-100AA48	48	10	–	●	●	●	●	–	TQFP-100
CYAT81655-100AS48	48	10	–	●	●	●	●	–	TQFP-100
CYAT81658-100AA48	48	10	–	●	●	●	●	●	TQFP-100
CYAT81658-100AS48	48	10	–	●	●	●	●	●	TQFP-100
CYAT81659-100AA48	48	10	●	●	●	●	●	●	TQFP-100
CYAT81659-100AS48	48	10	●	●	●	●	●	●	TQFP-100
CYAT81650-64AA48	48	10	–	–	–	–	–	–	TQFP-64
CYAT81650-64AS48	48	10	–	–	–	–	–	–	TQFP-64
CYAT81652-64AA48	48	10	–	●	●	●	–	–	TQFP-64
CYAT81652-64AS48	48	10	–	●	●	●	–	–	TQFP-64
CYAT81655-64AA48	48	10	–	●	●	●	●	–	TQFP-64
CYAT81655-64AS48	48	10	–	●	●	●	●	–	TQFP-64
CYAT81658-64AA48	48	10	–	●	●	●	●	●	TQFP-64
CYAT81658-64AS48	48	10	–	●	●	●	●	●	TQFP-64
CYAT81659-64AA48	48	10	●	●	●	●	●	●	TQFP-64
CYAT81659-64AS48	48	10	●	●	●	●	●	●	TQFP-64
CYAT71658-56LWS41	41	10	●	●	●	●	●	●	QFN-56
CYAT71658-56LWA41	41	10	●	●	●	●	●	●	QFN-56

Gen7XL – Touch Controller with advanced features



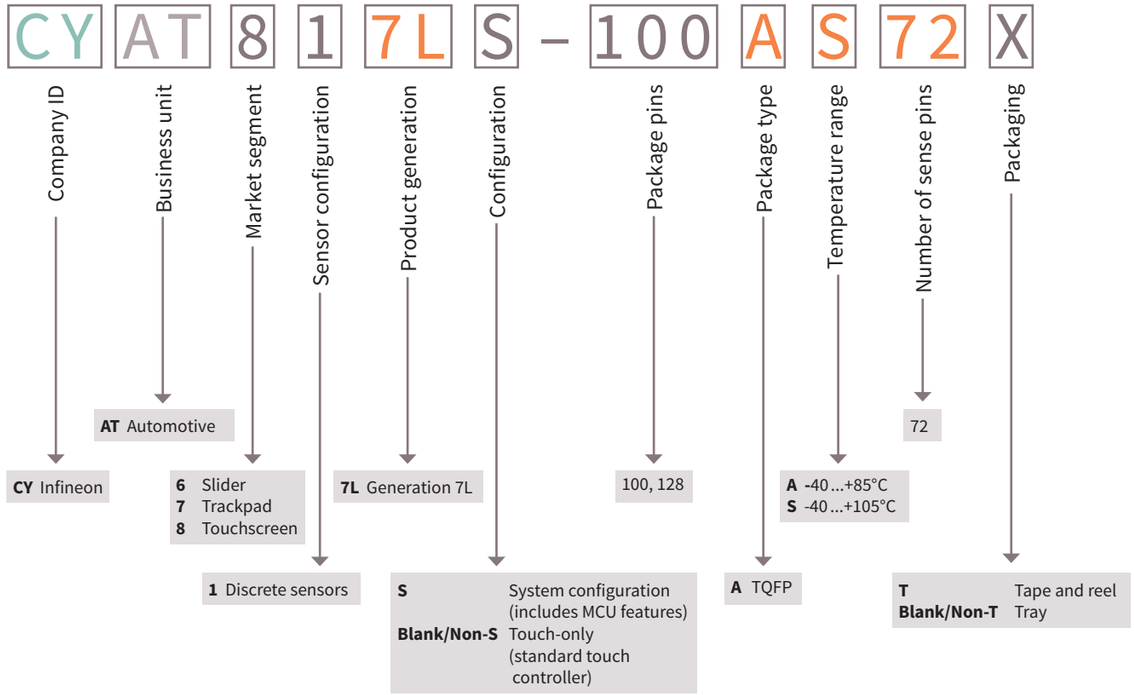
Product type/ partnumber	Number of sense pins	Number of fingers	Hover	Force touch	CapSense buttons	Low-power wake-up button/ wake-on-touch screen	Slider	Haptic	Acoustic	Secondary SCB (Touch data)	CAN	Proximity	Crypto	Gesture touch-screen	Gesture slider	H2O	Package
CYAT817AZS61-3A202	61	10	●	●	–	–	–	●	–	–	–	–	–	–	–	●	TQFP-100
CYAT817AZS61-3A002	61	10	●	●	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-100
CYAT817AZS61-22002	61	10	–	–	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-100
CYAT817AZS61-3A00A	61	10	●	●	–	–	–	–	–	–	–	–	–	●	–	●	TQFP-100
CYAT817AZS72-3BFBA	72	10	●	●	●	●	●	●	●	●	–	●	●	●	–	●	TQFP-100
CYAT817AZS72-3B202	72	10	●	●	●	–	–	●	–	–	–	–	–	–	–	●	TQFP-100
CYAT817AZS72-3B002	72	10	●	●	●	–	–	–	–	–	–	–	–	–	–	●	TQFP-100
CYAT817AZS72-33002	72	10	●	–	●	–	–	–	–	–	–	–	–	–	–	●	TQFP-100
CYAT817AZS72-32002	72	10	●	–	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-100
CYAT817AZS72-22002	72	10	–	–	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-100
CYAT817AZA72-3BFBA	72	10	●	●	●	●	●	●	●	●	–	●	●	●	–	●	TQFP-100
CYAT817AZS77-5BFBA	77	10	●	●	●	●	●	●	●	●	–	●	●	●	–	●	TQFP-128
CYAT817AZS77-5A202	77	10	●	●	–	–	–	●	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZS77-5A002	77	10	●	●	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZS77-53C02	77	10	●	–	●	●	●	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZS77-520DA	77	10	●	–	–	–	–	–	–	●	●	–	●	●	–	●	TQFP-128
CYAT817AZA77-5BFBA	77	10	●	●	●	●	●	●	●	●	–	●	●	●	–	●	TQFP-128
CYAT817AZS77-42002	77	10	–	–	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZS88-5BFBA	88	10	●	●	●	●	●	●	●	●	–	●	●	●	–	●	TQFP-128
CYAT817AZS88-52002	88	10	●	–	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZS88-42002	88	10	–	–	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZA88-5BFBA	88	10	●	●	●	●	●	●	●	●	–	●	●	●	–	●	TQFP-128
CYAT817AZA88-5B202	88	10	●	●	●	–	–	●	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZA88-5B002	88	10	●	●	●	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZA88-53002	88	10	●	–	●	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZA88-42002	88	10	–	–	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZS98-5BFFE	103	10	●	●	●	●	●	●	●	●	●	●	●	●	●	●	TQFP-128
CYAT817AZS98-5BFBA	103	10	●	●	●	●	●	●	●	●	–	●	●	●	–	●	TQFP-128
CYAT817AZS98-523DA	103	10	●	–	–	–	–	●	●	●	●	–	●	●	–	●	TQFP-128
CYAT817AZS98-42002	103	10	–	–	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZA98-5BFBA	103	10	●	●	●	●	●	●	●	●	–	●	●	●	–	●	TQFP-128
CYAT817AZA98-5B202	103	10	●	●	●	–	–	●	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZA98-5B002	103	10	●	●	●	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZA98-53002	103	10	●	–	●	–	–	–	–	–	–	–	–	–	–	●	TQFP-128
CYAT817AZA98-42002	103	10	–	–	–	–	–	–	–	–	–	–	–	–	–	●	TQFP-128

Gen7L – Touch + MCU featues



Product type/ partnumber	Number of sense pins	Number of fingers	Touch only	Touch + MCU functions	No. of GPIOs	Temperature [°C]	Package
CYAT817L-100AA72	72	10	●	–	13	–40 to +85	TQFP-100
CYAT817L-100AS72	72	10	●	–	13	–40 to +105	TQFP-100
CYAT817LS-100AA72	72	10	–	●	13	–40 to +85	TQFP-100
CYAT817LS-100AS72	72	10	–	●	13	–40 to +105	TQFP-100
CYAT817L-128AA72	72	10	●	–	29	–40 to +85	TQFP-128
CYAT817L-128AS72	72	10	●	–	29	–40 to +105	TQFP-128
CYAT817LS-128AA72	72	10	–	●	29	–40 to +85	TQFP-128
CYAT817LS-128AS72	72	10	–	●	29	–40 to +105	TQFP-128

Gen7XL – Multi-chip

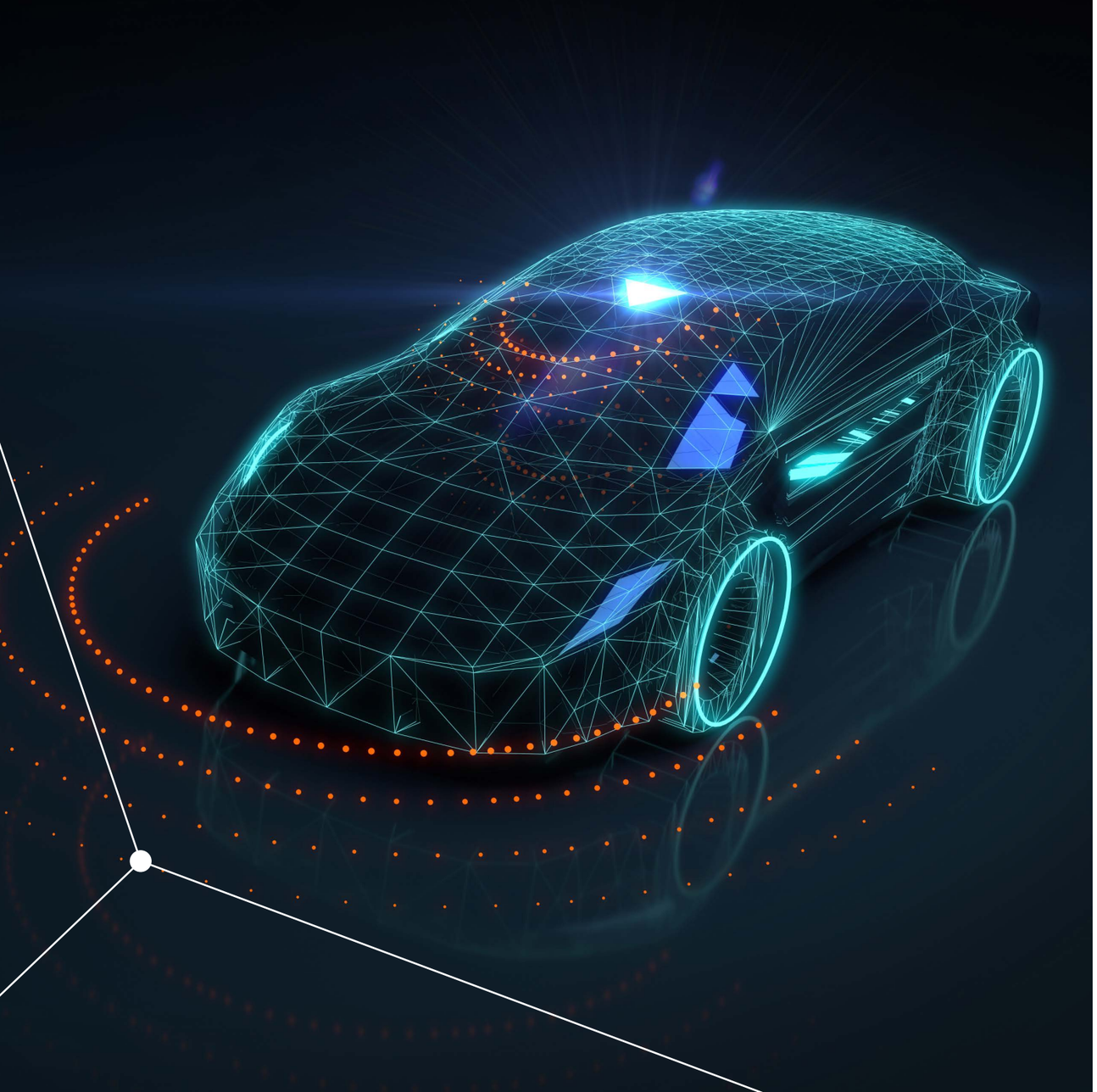


Product type/ partnumber	Number of sense pins	Multi-touch	Glove	H2O	Package
CYAT837AZA98-42002	98	●	●	●	TQFP-128
CYAT837AZS98-42002	98	●	●	●	TQFP-128
CYAT847AZA98-42002	98	●	●	●	TQFP-128
CYAT847AZS98-42002	98	●	●	●	TQFP-128
CYAT837AZA88-42002	88	●	●	●	TQFP-128
CYAT837AZS88-42002	88	●	●	●	TQFP-128
CYAT847AZA88-42002	88	●	●	●	TQFP-128
CYAT847AZS88-42002	88	●	●	●	TQFP-128
CYAT837AZA77-42002	77	●	●	●	TQFP-128
CYAT837AZS77-42002	77	●	●	●	TQFP-128
CYAT847AZA77-42002	77	●	●	●	TQFP-128
CYAT847AZS77-42002	77	●	●	●	TQFP-128
CYAT847AZA72-22002	72	●	●	●	TQFP-100
CYAT847AZS72-22002	72	–	–	●	TQFP-100
CYAT847AZA61-22002	61	●	●	●	TQFP-100
CYAT847AZS61-22002	61	●	●	●	TQFP-100

PSoC™ Fingerprint

PSoC™ Fingerprint FPG1

Product type/ partnumber	Active Imaging Area	Resolution	CPU	Communication Interface	Encryption	Pacakge Type	Package Size	Operating Temperature
CYFP10020A00	8 x 8 mm	340 dpi	Cortex®-M0	SPI salve bit rates up to 7.8 Mbps	256-bit AES	BGA-73	8.87 x 9.26 x 0.70 mm	Automotive AECQ-Q100: -40...+85°C
CYFP10020S00	8 x 8 mm	340 dpi	Cortex®-M0	SPI salve bit rates up to 7.8 Mbps	256-bit AES	BGA-73	8.87 x 9.26 x 0.70 mm	Automotive AECQ-Q100: -40...+105°C



32-bit Embedded Power ICs based on Arm® Cortex® M

TLE 98 7 9 – 2 Q X A 40

- **TLE** – Automotive electronic
- **98** – Embedded Power IC
- **7** – Sub-family
- **9** – Flash size information for respective product
- **2** – Special feature
- **Q** – Reinforced leadframe with Ni-plating
- **X** – Package
- **A** – Temperature range
- **40** – Core frequency

Sub-family
- **4** relay driver, Cortex® M0
- **5** H-bridge driver, Cortex® M0
- **6** H-bridge driver, Cortex® M3
- **7** 3-phase driver, Cortex® M3

Special feature
- **-2** SD(ΔΣ) – ADC

Package
- **X** VQFN
- **T** TQFP

Temperature range T_j
- **A** 150°C
- **W** 175°C

Core frequency
- **20** 24 MHz
- **40** 40 MHz

Selection table – Embedded Power ICs for Motor Control

Criteria	TLE984x	TLE9845QX	TLE9850/1QX(W)	TLE985x	TLE986x	TLE987x
Controller	Arm® Cortex®-M0				Arm® Cortex®-M3	
Core frequency	25/40 MHz	40 MHz			24/40 MHz	
Flash size	36–64 KB	48 KB	64 KB	48–96 KB	36–256 KB	
Driver stage	Relay	Half-bridge		H-bridge		B6-bridge
		PN FET	NN FET	N FET		N FET
High-voltage monitor inputs	4 – 5	5	4		1	
Junction temperature levels	150°C	150°C	175°C	150°C/175°C	150°C/175°C	
Package	VQFN-48-31		VQFN-48-29	VQFN-48-29 VQFN-48-31	TQFP-48-10 VQFN-48-29 VQFN-48-31	
Applications	Window lift Sunroof	Engine cooling fan Auxiliary water pump HVAC blower Fuel pump		Window lift Sunroof Wiper Power lift gate	Engine cooling fan Oil/water/fuel pump HVAC blower Power tools	

32-bit Embedded Power ICs based on Arm® Cortex® M

Product type/ partnumber	Markets			Package	GPIOs	Core		System					Debug		Supply voltage [V]	Operating temperature range T_A [°C]	Memory					Fast LIN BSL bootloader	Peripherals clock [MHz]	Driver circuits					Analog				Timer				SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	IIS/I²S	LIN
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	ERU	DMA	MPU	Watchdog	Real-time clock	SWD, SPD	JTAG, Trace			Flash [kByte]	ECC	RAM [kByte]	Cache	EEPROM emulationin flash [kByte]			MOSFET half bridge driver with double stage charge pump: 3 phase	2 phase	1 phase	High side switches	Low side switches	No. of 10-bit ADC channels	No. of 8-bit ADC channels	Operational amplifier	ΔΣ ADC	CCU6	GPT12	Timer 2/21	Timer 3							
Relay Driver IC																																											
TLE9842QX	●	–	–	VQFN-48	10	Cortex® M0	25	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	36 kByte	●	2 kByte	–	4 kByte	●	selectable	–	–	–	●	● ●	12 ch	7 ch	–	–	3 ch	●	●	–	●	–	–	●	–	–	●
TLE9842-2QX	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	40 kByte	●	2 kByte	–	4 kByte	●	selectable	–	–	–	● ●	● ●	13 ch	7 ch	–	–	3 ch	●	●	–	●	–	–	●	–	–	●
TLE9843QX	●	–	–	VQFN-48	10	Cortex® M0	25	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	48 kByte	●	4 kByte	–	4 kByte	●	selectable	–	–	–	●	● ●	12 ch	7 ch	–	–	3 ch	●	●	–	●	–	–	●	–	–	●
TLE9843-2QX	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	52 kByte	●	4 kByte	–	4 kByte	●	selectable	–	–	–	● ●	● ●	13 ch	7 ch	–	–	3 ch	●	●	–	●	–	–	●	–	–	●
TLE9844QX	●	–	–	VQFN-48	10	Cortex® M0	25	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	64 kByte	●	4 kByte	–	4 kByte	●	selectable	–	–	–	●	● ●	12 ch	7 ch	–	–	3 ch	●	●	–	●	–	–	●	–	–	●
TLE9844-2QX	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	64 kByte	●	4 kByte	–	4 kByte	●	selectable	–	–	–	● ●	● ●	13 ch	7 ch	–	–	3 ch	●	●	–	●	–	–	●	–	–	●
Half-Bridge Driver IC																																											
TLE9845QX	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	48 kByte	●	4 kByte	–	4 kByte	●	selectable	–	–	–	● ●	● ●	13 ch	7 ch	–	–	3 ch	●	●	–	●	–	–	●	–	–	●
TLE9850QX	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	48 kByte	●	4 kByte	–	4 kByte		selectable	–	–	●	●	–	12 ch	9 ch	●	–	3 ch	●	●	–	●	–	–	●	–	–	●
TLE9851QXW	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 175	64 kByte	●	4 kByte	–	4 kByte	●	selectable	–	–	●	●	–	12 ch	9 ch	●	–	3 ch	●	●	–	●	–	–	●	–	–	●
H-Bridge Driver IC																																											
TLE9852QX	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	48 kByte	●	4 kByte	–	4 kByte	●	selectable	–	●	–	●	–	11 ch	9 ch	–	–	3 ch	●	●	–	●	–	–	●	–	–	●
TLE9853QX	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	48 kByte	●	4 kByte	–	4 kByte	●	selectable	–	●	–	●	–	12 ch	9 ch	●	–	3 ch	●	●	–	●	–	–	●	–	–	●
TLE9854QX	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	64 kByte	●	4 kByte	–	4 kByte	●	selectable	–	●	–	●	–	12 ch	9 ch	●	–	3 ch	●	●	–	●	–	–	●	–	–	●
TLE9854QXW	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	64 kByte	●	4 kByte	–	4 kByte	●	selectable	–	●	–	●	–	12 ch	9 ch	●	–	3 ch	●	●	–	●	–	–	●	–	–	●
TLE9855QX	●	–	–	VQFN-48	10	Cortex® M0	40	–	–	●	●	●	●	–	5.5 to 28	-40 to 150	96 kByte	●	4 kByte	–	4 kByte	●	selectable	–	●	–	●	–	12 ch	9 ch	●	–	3 ch	●	●	–	●	–	–	●	–	–	●
TLE9861QXA20	●	–	–	VQFN-48	10	Cortex® M3	24	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	36 kByte	●	3 kByte	–	4 kByte	●	selectable	–	●	–	–	–	7 ch	10 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	–
TLE9862QXA40	●	–	–	VQFN-48	10	Cortex® M4	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	256 kByte	●	8 kByte	–	4 kByte	●	selectable	–	●	–	–	–	7 ch	10 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9867QXA20	●	–	–	VQFN-48	10	Cortex® M3	24	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	64 kByte	●	6 kByte	–	4 kByte	●	selectable	–	●	–	–	–	7 ch	10 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9867QXA40	●	–	–	VQFN-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	64 kByte	●	6 kByte	–	4 kByte	●	selectable	–	●	–	–	–	7 ch	10 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9867QXW20	●	–	–	VQFN-48	10	Cortex® M3	24	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 175	64 kByte	●	6 kByte	–	4 kByte	●	selectable	–	●	–	–		7 ch	10 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9868QXB20	●	–	–	VQFN-48	10	Cortex® M3	20	–	–	●	●	–	●	–	5.5 to 28	-40 to 150	128 kByte	●	4 kByte	–	5 kByte	●	selectable	–	●	–	–	–	6 ch	10 ch	–	● ●	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9869QXA20	●	–	–	VQFN-48	10	Cortex® M3	24	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	128 kByte	●	6 kByte	–	4 kByte	●	selectable	–	●	–	–	–	7 ch	10 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●

32-bit Embedded Power ICs based on Arm® Cortex® M

Product type/ partnumber	Markets			Package	GPIOs	Core		System					Debug		Supply voltage [V]	Operating temperature range T_A [°C]	Memory					Fast LIN BSL bootloader	Peripherals clock [MHz]	Driver circuits					Analog				Timer				SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	IIS/I²S	LIN
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	ERU	DMA	MPU	Watchdog	Real-time clock	SWD, SPD	JTAG, Trace			Flash [kByte]	ECC	RAM [kByte]	Cache	EEPROM emulationin flash [kByte]			MOSFET half bridge driver with double stage charge pump: 3 phase	2 phase	1 phase	High side switches	Low side switches	No. of 10-bit ADC channels	No. of 8-bit ADC channels	Operational amplifier	ΔΣ ADC	CCU6	GPT12	Timer 2/21	Timer 3							
3-Phase Bridge Driver IC																																											
TLE9871QXA20	●	–	–	VQFN-48	10	Cortex® M3	24	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	36 kByte	●	3 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	–
TLE9872QTW40	●	–	–	TQFP-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 175	256 kByte	●	8 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9872QXA40	●	–	–	VQFN-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	256 kByte	●	8 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9872-2QXA40	●	–	–	VQFN-48	10	Cortex® M3	40	–	14 ch	●	●	●	●	–	5.5 to 28	-40 to 150	256 kByte	●	8 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	● ●	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9873QXW40	●	–	–	VQFN-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 175	48 kByte	●	3 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9877QXA20	●	–	–	VQFN-48	10	Cortex® M3	24	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	64 kByte	●	6 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9877QTW40	●	–	–	TQFP-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 175	64 kByte	●	6 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9877QXA40	●	–	–	VQFN-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	64 kByte	●	6 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9877QXW40	●	–	–	VQFN-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 175	64 kByte	●	6 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9879QTW40	●	–	–	TQFP-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 175	128 kByte	●	6 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9879QXA20	●	–	–	VQFN-48	10	Cortex® M3	24	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	128 kByte	●	6 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9879QXA40	●	–	–	VQFN-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 150	128 kByte	●	6 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9879-2QXA40	●	–	–	VQFN-48	10	Cortex® M3	40	–	14 ch	●	●	●	●	–	5.5 to 28	-40 to 150	128 kByte	●	6 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	● ●	3 ch	●	●	●	●	–	–	●	–	–	●
TLE9879QXW40	●	–	–	VQFN-48	10	Cortex® M3	40	–	13 ch	●	●	●	●	–	5.5 to 28	-40 to 175	128 kByte	●	6 kByte	–	4 kByte	●	selectable	●	–	–	–	–	7 ch	9 ch	●	–	3 ch	●	●	●	●	–	–	●	–	–	●

Legacy: 16/32-bit Microcontroller

Product type	Automotive	Industrial	Consumer	Temperature ranges	Package	Max clock frequency [MHz]	Program memory [kByte]	SRAM (incl. cache) [KByte]	Co-processor	Digital I/O lines	Number of ADC channels	Timed IO channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communication interfaces	Additional features / remarks
XC2000 for automotive applications																	
XC2200 for body applications																	
U-series																	
XC2220U	●	–	–	F, K	VQFN-48	40	32–64	8	MAC	33	10	17	●	–	–	1x USIC	–
L-series																	
XC2224I	●	–	–	F, K	VQFN-48	66	96–160	12	MAC	33	10	23	●	2	–	2x USIC	–
XC2234I	●	–	–	F, K	LQFP-64	66	96–160	12	MAC	49	19	24	●	2	–	2x USIC	CuWb
N-series																	
XC2238N	●	–	–	F, K	LQFP-64	80	192–320	34	MAC	38	9	22	●	6	–	4x USIC	CuWb
XC2268N	●	–	–	F, K	LQFP-100	80	192–320	34	MAC	76	16	32	●	6	–	6x USIC	CuWb
M-series																	
XC2237M	●	–	–	F, K	LQFP-64	80	448–832	50	MAC	38	9	22	●	6	–	6x USIC	–
XC2267M	●	–	–	F, K	LQFP-100	80	448–832	50	MAC	76	16	32	●	6	–	8x USIC	CuWb
XC2287M	●	–	–	F, K	LQFP-144	80	448–832	50	MAC	119	24	44	●	6	–	8x USIC	CuWb
I-series																	
XC2269I	●	–	–	F, K	LQFP-100	128	1088	90	MAC	76	19	32	●	6	–	10x USIC, 2xFlexRay	CuWb
XC2289I	●	–	–	F, K	LQFP-144	128	1088	90	MAC	118	28	44	●	6	–	10x USIC, 2x FlexRay	CuWb
H-series																	
XC2289H	●	–	–	F, K	LQFP-144	100	1600	138	MAC	119	24	44	●	4	–	10x USIC, 2x FlexRay	–
XC2299H	●	–	–	F, K	LQFP-176	100	1600	138	MAC	150	30	66	●	6	–	10x USIC, 2x FlexRay	–
XC2300 for safety applications																	
A-series																	
XC2336A	●	–	–	F, K	LQFP-64	40	448–832	50	MAC	38	9	24	●	2	–	4x USIC	–
XC2365A	●	–	–	F, K	LQFP-100	80	448–832	50	MAC	76	16	24	●	3	–	6x USIC	CuWb
XC2387A	●	–	–	F, K	LQFP-144	80	448–832	50	MAC	119	24	32	●	3	–	6x USIC	CuWb
B-series																	
XC2336B	●	–	–	F, K	LQFP-64	80	320	34	MAC	38	9	20	●	2	–	4x USIC	CuWb
XC2365B	●	–	–	F, K	LQFP-100	80	192–320	18–34	MAC	76	16	24	●	3	–	6x USIC	CuWb
C-series																	
XC2388C	●	–	–	F, K	LQFP-144	100	1088–1600	138	MAC	119	24	32	●	4	–	10x USIC, 2x FlexRay	–

Legacy: 16/32-bit Microcontroller

Product type	Automotive	Industrial	Consumer	Temperature ranges	Package	Max clock frequency [MHz]	Program memory [kByte]	SRAM (incl. cache) [KByte]	Co-processor	Digital I/O lines	Number of ADC channels	Timed IO channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communication interfaces	Additional features / remarks
XC2300 for safety applications																	
D-series																	
XC2321D	●	–	–	F, K	VQFN-48	80	96–160	12	MAC	33	10	23	●	2	–	2x USIC	–
XC2331D	●	–	–	F, K	LQFP-64	80	96–160	12	MAC	49	19	24	●	2	–	2x USIC	CuWb
E-series																	
XC2368E	●	–	–	F, K	LQFP-100	128	576–1088	90	MAC	75	16	32	●	3	–	6x USIC, 2x FlexRay	CuWb
XC2388E	●	–	–	F, K	LQFP-144	128	576–1088	90	MAC	118	24	32	●	3	–	8x USIC, 2x FlexRay	CuWb
S-series																	
XC2320S	●	–	–	F, K	VQFN-48	66	32–64	8	MAC	33	10	17	●	–	–	1x USIC	–
XC2700 for powertrain applications																	
2-series																	
XC2722X	●	–	–	K	VQFN-48	40	64	8	MAC	33	10	17	●	–	–	2x USIC	–
3-series																	
XC2723X	●	–	–	K	VQFN-48	66	160	12	MAC	33	10	23	●	2	–	2x USIC	–
XC2733X	●	–	–	K	LQFP-64	66	160	12	MAC	49	19	24	●	2	–	2x USIC	CuWb
4-series																	
XC2734X	●	–	–	K	LQFP-64	80	320	34	MAC	38	9	20	●	2	–	4x USIC	CuWb
XC2764X	●	–	–	K	LQFP-100	80	320	34	MAC	76	16	24	●	2	–	4x USIC	CuWb
5-series																	
XC2765X	●	–	–	K	LQFP-100	80	576–832	50	MAC	76	16	37	●	2	–	4x USIC	CuWb
XC2785X	●	–	–	K	LQFP-144	80	576–832	50	MAC	119	24	44	●	2	–	4x USIC	CuWb
7-series																	
XC2787X	●	–	–	K	LQFP-144	100	1600	138	MAC	119	24	60	●	2	–	6x USIC	–
8-series																	
XC2768X	●	–	–	K	LQFP-100	128	1088	90	MAC	76	19	32	●	2	–	10x USIC, 2x FlexRay	CuWb
XC2788X	●	–	–	K	LQFP-144	128	1088	90	MAC	118	28	44	●	2	–	10x USIC, 2x FlexRay	CuWb

MAC = Multiply-Accumulate-Unit (DSP)
USIC = ASC, SPI, I^2C, I^2S

F = -40/+85 °C
K = -40/+125 °C

Legacy: 16-bit Industrial Microcontroller

Product type	Automotive	Industrial	Consumer	Temperature ranges	Package	Max clock frequency [MHz]	Program memory [kByte]	SRAM (incl. cache) [kByte]	Co-processor	Digital I/O lines	Number of ADC channels	Timed I/O channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communication interfaces	Additional features / remarks
XE166 real time signal controller for industrial and multi market																	
Classic series - alpha line																	
XE164x	–	●	●	F, K	LQFP-100	66/80	768	24–82	MAC	75	11–16	30–37	●	0–4	–	4–6x USIC	–
XE167x	–	●	●	F, K	LQFP-144	66/80	768	28–82	MAC	118	16–24	30–44	●	0–5	–	4–6x USIC	–
U series - compact line																	
XE161x	–	●	●	F, K	VQFN-48	40/66	64	8	MAC	33	10	15	–	–	–	2x USIC	–
L series - econo line																	
XE161x	–	●	●	F, K	VQFN-48	66/80	128–160	12	MAC	33	10	21	–	1	–	4x USIC	–
XE162x	–	●	●	F, K	LQFP-64	66/80	96–160	12	MAC	48	19	21	–	2	–	4x USIC	CuWb
N series - value line																	
XE162xN	–	●	●	F, K	LQFP-64	80	128–320	18–34	MAC	40	9	23	●	0–2	–	6x USIC	CuWb
XE164xN	–	●	●	F, K	LQFP-100	–	128–320	18–34	MAC	75	11–16	30	●	0–2	–	4–6x USIC	CuWb
M series - base line																	
XE162xM	–	●	●	F, K	LQFP-64	80	384–576	24–50	MAC	40	9	23	–	0–2	–	6x USIC	–
XE164xM	–	●	●	F, K	LQFP-100	80	384–576	26–50	MAC	76	11–16	30–37	●	0–4	–	4–6x USIC	CuWb
XE167xM	–	●	●	F, K	LQFP-144	80	384–576	34–50	MAC	119	16–24	30–44	●	0–6	–	4–8x USIC	CuWb
H series - high line																	
XE167xH	–	●	●	F, K	LQFP-144	100	1.024–1.600	138	MAC	98–118	24	60	●	6	–	10x USIC	–
XE169xH	–	●	●	F, K	LQFP-176	100	1.024–1.600	138	MAC	98–118	30	60	●	6	–	10x USIC	–

MAC = Multiply-Accumulate-Unit (DSP)
USIC = ASC, SPI, I^2C, I^2S

F = -40/+85 °C
K = -40/+125 °C

Legacy: 8-bit Microcontroller

Product type	Automotive	Industrial	Consumer	Temperature ranges	Package	Max clock frequency [MHz]	Program memory [kByte]	SRAM (incl. cache) [KByte]	Co-processor	Digital I/O lines	Number of ADC channels	Timed I/O channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communication interfaces	Additional features / remarks
C500 family																	
C505CA-4EM /-IM	●	●	●	F, B, K	MQFP-44	20	0	1.25	–	34	8	4	–	1	–	1x USART	OTP, ROM less
C515C-8EM	●	●	●	F, B, K	MQFP-80	10	64	2.25	–	49	8	4	–	1	–	1x USART, 1x SSC	OTP
XC800 family																	
XC82x-series																	
XC822MT	●	●	●	F, K	TSSOP-16	24	2–4	0.5	–	17	4	4	–	–	–	1x UART, 1x SSC, IIN	–
XC83x-series																	
XC836MT	●	●	●	F, K, L	TSSOP-28	24	4–8	0.5	VC	25	8	4	–	–	–	1x UART, 1x SSC, IIN	–
XC86x-series																	
XC866	●	●	●	F, K, A, L	TSSOP-38	26.67	4–16	0.75	–	27	8	4	–	–	–	1x UART, 1x SSC	–
XC866l	●	●	●	F, K, A, L	TSSOP-38	26.67	4–16	0.75	–	27	8	4	–	–	–	1x UART, IIN BSl, 1x SSC	–
XC87x-series																	
XC878	●	●	●	F, K, X	lQFP-64	27	52–64	3	[VC]	48	8	10	●	[2]	–	2x UART, 1x SSC, [IIN]	–
XC88x-series																	
XC886	●	●	●	F, K, A, L	TQFP-48	24	24–32	1.75	[VC]	34	8	4	–	[2]	–	2x UART, [IIN BSl], [1x SSC]	–
XC888	●	●	●	F, K, [A], [L]	TQFP-64	24	24–32	1.74	[VC]	48	8	4	–	[2]	–	2x UART, [IIN BSl], [1x SSC]	–
CIC family (companion IC)																	
CIC61508	●	●	–	K	TSSOP-38	26.67	–	0.25	–	–	–	–	–	–	–	Safety signature watchdog	Flash

[ ] = Optional features
MDU = Multiply Divide Unit
LIN BSL = LIN Bootstrap Loader
SSC = Synchronous Serial Channel
VC = Vector Computer (MDU + CORDIC)

A = -40/+140 °C
F = -40/+85 °C
K = -40/+125 °C
L = -40/+150 °C
X = -40/+105 °C

Voltage regulators for Microcontrollers

Microcontroller family	Output voltage [V]	Output current (max) [mA]	Safety support	Voltage regulator	Automotive	Industrial
Legacy 8/16-bit Microcontrollers						
XC8xxx	3.3/5	30	–	TLE4296-2G; TLE4295G	●	–
XC8xxx	3.3/5	30	–	TLE4296-2G; TLE4295G	●	–
XC8xxx	5	300	–	TLS835B2EL; TLS835D2EL	●	–
XC8xxx	5	100	–	TLS810B1EJ; TLS810A1LD	●	–
XC8xxx	3.3/5	400	–	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxTA	●	–
XC8xxx	3.3/5	50	–	TLS810B1EJ; TLS810A1LD	●	–
XC8xxx	5	100	–	TLS810B1EJ; TLS810A1LD	●	–
XE166/XC2000	3.3/5	400	–	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxTA	●	–
XE166/XC2001	5	300	–	TLS835B2EL; TLS835D2EL	●	–
XE166/XC2002	5	100	–	TLS810B1EJ; TLS810A1LD	●	–
XE166/XC2003	5	100	–	TLS810B1EJ; TLS810A1LD	●	–
32-bit XMC™ Arm® Microcontroller						
XMC1000 series	3.3/5	300	–	TLS835B2EL; TLS835D2EL	●	–
XMC1000 series	3.3	150	–	TLE4266-2G; TLS820D3EL	●	–
XMC1000 series	5	100	–	TLS810B1EJ; TLS810A1LD	●	–
XMC1000 series	5	100	–	TLS810B1EJ; TLS810A1LD	●	–
XMC1000 series	3.3/5	400	–	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxTA	●	–
XMC4000 series	3.3/5	500	–	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxTA	●	–
XMC4000 series	3.3/5	300	–	TLS835B2EL; TLS835D2EL	●	–
32-bit AURIX™ TriCore™ Microcontroller						
AURIX TC21x/22x/23x	3.3	150/500	ASIL-D	TLF35584	●	–
AURIX TC21x/22x/23x	3.3	150/500	QM/ASIL-B	TLF502x1/TLS4120	●	–
AURIX TC21x/22x/23x	3.3	150/500	QM/ASIL-B	TLE9461/TLE9471	●	–
AURIX TC26x/27x/29x	3.3/5	250/400/500	ASIL-D	TLF35584	●	–
AURIX TC26x	3.3/5	250/400/500	QM/ASIL-B	TLE926xB/TLE9471	●	–
AURIX TC27x/29x	3.3/5	500	QM/ASIL-B	TLE9471	●	–
AURIX TC33x	3.3/5	250/400/500	QM/ASIL-B	TLE926xB/TLE9471	●	–
AURIX TC33x A	3.3/5	–	QM/ASIL-B	TLF30681	●	–
AURIX TC35x A	3.3/5	750	ASIL-B	TLF30682	●	–
AURIX TC35x A	3.3/5	750	QM/ASIL-B	TLE927x/TLE9278B	●	–
AURIX TC36x/37x	3.3/5	500	QM/ASIL-B	TLE9471	●	–
AURIX TC37x	3.3/5	500	ASIL-D	TLF35584	●	–
AURIX TC38x/TC39x	3.3/5	750	ASIL-D	TLF35584 & TLF11251	●	–
AURIX TC38x/TC39x	3.3/5	750	QM/ASIL-B	TLE927x/TLE9278B	●	–
AURIX TC2xx & TC3xx	3.3/5	1000	–	TLS4120D0EPV	●	–
AURIX TC2xx & TC3xx	3.3/5	1800	–	TLS4120D0EPV	●	–
AURIX TC2xx & TC3xx	3.3/5	2300	–	TLS4125D0EPV	●	–
AURIX TC2xx & TC3xx	3.3/5	400	–	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxTA	●	–
AURIX TC2xx & TC3xx	3.3/5	1000	–	TLS4120D0EPV	●	–

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