Melexis

INSPIRED ENGINEERING

SELECTION GUIDE

AUTOMOTIVE LED AND RGB LED CONTROLLER

We incorporate the newest and most operationally intensive LIN network applications into next generation vehicles.

LIN lighting products for Ambient lighting and slow animated lighting

	Part Number	MCU	Supply Voltage	Program Memory	EEPROM	LED Driver	LED Current per Channel	Progr. Current Steps	PWM Resolution	Min. LED Current Resolution	Special Feature	Temp. Range	Package	Status
GEN 1	MLX81108	16-bit RISC	5 to 18 V (26 V)	32 kB Flash	380 B	4	48 mA	3 mA (0..30 mA) 6 mA (36..48 mA)	16-bit	46 nA	-	-40 to 125°C	SOIC-8 fused	PPAP / Product
	MLX81109	16-bit RISC	5 to 18 V (26 V)	32 kB Flash	380 B	4	48 mA	3 mA (0..30 mA) 6 mA (36..48 mA)	16-bit	46 nA	8-digital IO's 5.6V Vref output	-40 to 125°C	QFN20 5x5	PPAP / Product
GEN 2	MLX81112	16-bit RISC	5 to 18 V (26 V)	32 kB Flash +System ROM	256 B	4	48 mA	3 mA (0..30 mA) 6 mA (36..48 mA)	16-bit	46 nA	-	-40 to 125°C	SOIC-8 fused	PPAP / Product
	MLX81115	16-bit RISC	5 to 18 V (26 V)	32 kB Flash +System ROM	256 B	6	48 mA	3 mA (0..30 mA) 6 mA (36..48 mA)	16-bit	46 nA	-	-40 to 125°C	DFN12 4x4	PPAP / Product
	MLX81120	16-bit RISC	5 to 18 V (26 V)	32 kB Flash +System ROM	256 B	4	48 mA	3 mA (0..30 mA) 6 mA (36..48 mA)	16-bit	46 nA	LIN-to-LIN Gateway	-40 to 125°C	DFN12 4x4	PPAP / Product
GEN 3	MLX81113	16-bit pipe-lined RISC	4.5 to 18 V (26 V)	32 kB Flash +System ROM	512 B	4	60 mA	5 mA	16-bit	76 nA	-	-40 to 125°C	SOIC-8ep / DFN10 3x3	PPAP / Product
	MLX81114	16-bit pipe-lined RISC	4.5 to 18 V (26 V)	32 kB Flash +System ROM	512 B	4	60 mA	5 mA	16-bit	76 nA	Memory protection option	-40 to 125°C	SOIC-8ep	PPAP / Product

MeLiBu™ by Melexis

MeLiBu™ products for high speed animated lighting (smart light)

	Part Number	MCU	Supply Voltage	Program Memory	EEPROM	LED Driver	LED Current per Channel	Progr. Current Steps	PWM Resolution	Min. LED Current Resolution	Special Feature	Temp. Range	Package	Status
GEN 1	MLX81116	16-bit pipe-lined RISC	5.5 to 18V (40V)	32 kB Flash +System ROM	512 B	12	60 mA	5 mA	16-bit	76n A	1Mbit MeLiBu™, Integrated LED Multiplexing	-40 to 125°C	QFN24 4x4	PPAP / Product
	MLX81117	16-bit pipe-lined RISC	5.5 to 18V (40V)	32 kB Flash +System ROM"	512 B	16	60 mA / 30 mA	5 mA / 2.5 mA	16-bit	76n A	2Mbit MeLiBu™, Separate LED supply input	-40 to 125°C	QFN32 5x5	PPAP / Product

SOIC-8 with exp. pad

QFN 4x4 24 leads

QFN 5x5 32 leads

DFN 4x4 12 leads

DFN 3x3 10 leads

QFN 5x5 20 leads

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