

## SYSTEM MANAGEMENT I<sup>2</sup>C, I3C AND SPI SELECTOR GUIDE

A BROAD CATALOG OF INTERFACE COMPONENTS FOR ALL YOUR DESIGN NEEDS

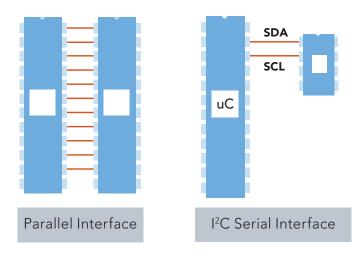


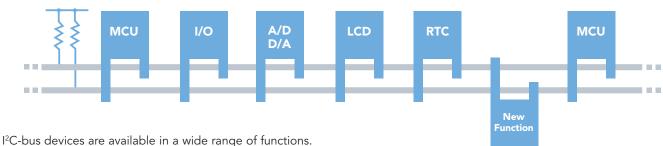
## I<sup>2</sup>C-BUS: THE SERIAL REVOLUTION

By replacing complex parallel interfaces with a straightforward yet powerful serial structure, the  $I^2C$ -bus revolutionized chip-to-chip communications.

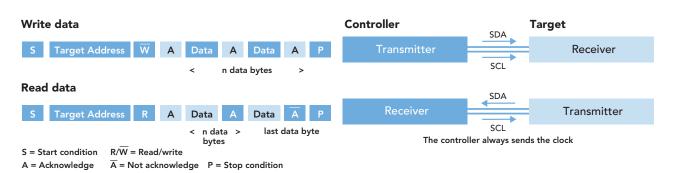
Invented by NXP (Philips) more than 30 years ago, the I<sup>2</sup>C-bus uses a simple two-wire format to carry data one bit at a time. It performs inter-chip addressing, selection, control and data transfer. Speeds are up to 400 kHz (fast mode), 1 MHz (fast mode plus), 3.4 MHz (high-speed mode), or 5 MHz (ultra-fast mode). New 12.5 MHz I3C controllers with backwards compatibility to I<sup>2</sup>C are starting to hit the market which compete with the higher speeds of the SPI bus.

The I<sup>2</sup>C-bus shrinks the IC footprint and leads to lower IC costs. Additionally, since far fewer copper traces are needed, it enables a smaller PCB, reduces design complexity and lowers system cost.





I<sup>2</sup>C-bus devices are available in a wide range of functions. Each target device has its own I<sup>2</sup>C-bus address, selectable using address pins set high (1) or low (0). Information is transmitted byte by byte, and each byte is acknowledged by the receiver. There can be multiple devices on the same bus, and more than one IC can act as controller. The controller role is typically played by a microcontroller.



#### **OVERVIEW OF MIPI 13C**

MIPI I3C (and the publicly available MIPI I3C Basic) provide a scalable, medium-speed, utility and control bus for connecting peripherals to an application processor. Its design incorporates key attributes from both I<sup>2</sup>C-bus and SPI interfaces to provide a unified, high-performance, low-power interface solution that delivers a flexible upgrade path for I<sup>2</sup>C-bus and SPI implementers. Originally introduced in 2017, I3C was the culmination of a multi-year development project based on extensive collaboration with the MEMS and Sensors Industry Group and across the broader electronics ecosystem.

As shown in Figure 1, I<sup>2</sup>C-bus targets (with 50 ns filter) can coexist with I3C controllers operating at 12.5 MHz, enabling the migration of existing I<sup>2</sup>C-bus designs to the I3C specification. Conversely, I3C targets operating at typical 400 kHz or 1 MHz I<sup>2</sup>C-bus speeds can coexist with existing I<sup>2</sup>C-bus controllers.

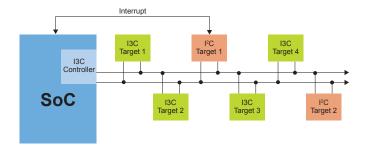


Figure 1 - I<sup>2</sup>C and I3C targets coexisting with I3C controller

Just like I<sup>2</sup>C, I3C is implemented with standard CMOS I/O pins using a two-wire interface, but unlike I<sup>2</sup>C it supports in-band interrupts enabling target devices to notify controllers of interrupts, a design feature that eliminates the need for a separate general-purpose input/output (GPIO) interrupt for each target, reducing system cost and complexity. Support for dynamic address assignments help minimize pin counts, which is key for accommodating space-constrained form factors.

I3C supports a multi-drop bus that, at 12.5MHz, supports standard data rate (SDR) of 10 Mbps with options for high-data-rate (HDR) modes. The net result is that I3C offers a leap in performance and power efficiency compared with I<sup>2</sup>C as shown in Figure 2.

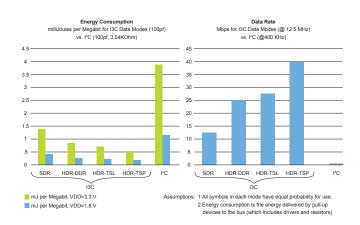


Figure 2 – Comparison of Energy Consumption and Data Rates:  $13 \text{C vs } 1^2 \text{C}$ 

Additional technical highlights for I3C include multi-controller support, dynamic addressing, command-code compatibility and a uniform approach for advanced power management features, such as sleep mode. It provides synchronous and asynchronous timestamping to improve the accuracy of applications that fuse signals from various peripherals. It can also batch and transmit data quickly to minimize energy consumption of the host processor.

#### **COMPARISON OF FEATURES**

Feature I3C I3C I3C I3C Basic					
reacure	v1.0	Basic	v1.1	v1.1	
12.5 MHz SDR (Controller, Target and Legacy I <sup>2</sup> C Target Compatibility)	V	V	V	√	
Target can operate as I <sup>2</sup> C device on I <sup>2</sup> C bus and on I3C bus using HDR modes	√	√	V	√	
Target Reset	√	√	√	√	
Specified 1.2V-3.3V Operation for 50pf C load	√	√	√	√	
In-Band Interrupt (w/MDB)	√	√	√	√	
Dynamic Address Assignment	√	√	√	√	
Error Detection and Recovery	√	√	√	√	
Secondary Controller	√	√	√	√	
Hot-Join Mechanism	√	√	√	√	
Common Command Codes (Required/Optional)	√	√ <b>√</b>	√	√ √	
Specified 1.0V Operation for 100pf C load	√	√	√	√	
Set Static Address as Dynamic Address CCC (SETAASA)	√	√	√	√	
Synchronous Timing Control	√	√	√	√	
Asynchronous Timing Control (Mode 0)	√	√	√	√	
Asynchronous Timing Control (Mode 1-3)	√	√	√	√	
HDR-DDR	√	√	√	√	
HDR-TSL/TSP	√	√	√		
HDR-BT (Multi-Lane Bulk Transport)	√	√	√	√	
Grouped Addressing	√	√	√	√	
Device to Device(s) Tunneling	√	√	√	√	
Multi-Lane for Speed (Dual/Quad for SDR and HDR-DDR)	√	√	√	√	
Monitoring Device Early Termination	√	√	√	√	

Figure 3 - Comparison of I3C and I3C Basic Features

While the full version of I3C is available only to MIPI Alliance members, MIPI has released a public version called I3C Basic that bundles the most commonly needed I3C features for use by developers and other standards organizations. I3C Basic is available for implementation without MIPI membership and is intended to facilitate a royalty-free licensing environment for all implementers. Figure 3 summarizes the key features supported by I3C and I3C Basic.

To support developers, compatibility between different I3C implementations has been confirmed through multiple interoperability workshops, and several supporting MIPI resources are available. These include:

- I3C Host Controller Interface MIPI I3C HCISM
- I3C HCI Driver for Linux
- I3C Discovery and Configuration Specification DisCo for I3C<sup>SM</sup>
- I3C Debug and Test Interface MIPI Debug for I3C<sup>SM</sup>

I3C intellectual property (IP) is available from multiple vendors, including a licence free version for I3C Basic. I3C conformance testing and verification IP test suites are also available from multiple vendors.

More information on I3C and I3C Basic is available via the MIPI Alliance website.

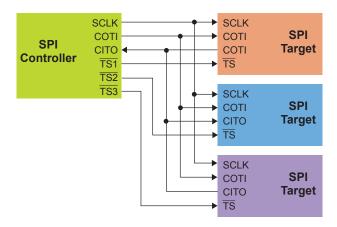
#### **OVERVIEW OF THE SPI BUS**

SPI is the full duplex synchronous serial interface consisting of four signals: SCLK (serial clock), COTI (controller out, target in), CITO (controller in, target out) and TS (target select). SPI bus operates with a single controller device and one or more target devices. Data rate ranges from 5 to 20 Mbps which is much higher than the I<sup>2</sup>C-bus rate but like the new I3C-bus.

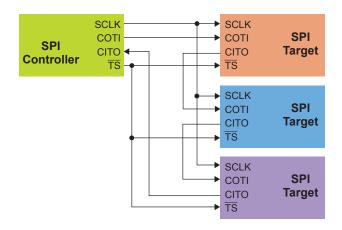


Though target devices might operate in one polarity or phase only, clock polarity and phase of the SPI bus could be configured with respect to the data to establish the valid communication link by the controller. CPOL determines the polarity of the clock. When CPOL = 0, clock is low when idle. The leading edge is the rising edge and the trailing edge is the falling edge. When CPOL = 1, clock is high when idle. The leading edge is the failing edge and the trailing edge is the rising edge.

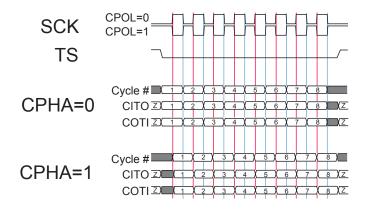
CPHA determines the timing of the data bits relative to the clock pulse. When CPHA = 1, the transmitting side changes data on the leading edge of the clock and the receiving side captures data on the trailing edge of the clock. When CPHA = 0, the transmitting side changes data on the trailing edge of the clock and the receiving side captures data on the leading edge of the clock.



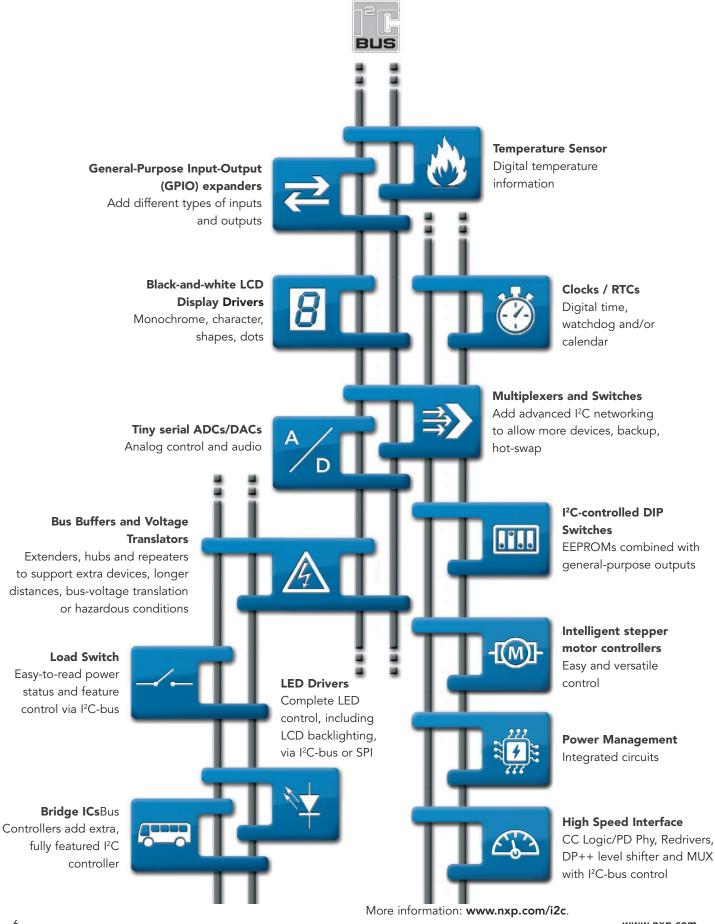
The controller could connect with multiple independent targets in parallel. Each target is controlled with the separate TS signal. When TS = 0, only the corresponding target will response to the controller. Outputs of all others with TS = 1 remain in high impedance.



Alternatively, targets could be connected in a daisy chain configuration to reduce number of the target select signals. The controller output is connected to the first target input. The first target output is connected to the second target input and so on. Then the last target output is connected back to the controller input. Each target is designed to send out during the second group of the clock pulses the exact copy of the data it received during the first group of clock pulses. The controller receives data from the last target first then data from the first target last during the same clock group. It requires two clock groups to complete each operation which would be only one clock group in the parallel configuration



## NXP I<sup>2</sup>C, I3C AND SPI PRODUCT LINES



# I<sup>2</sup>C-BUS,I3C-BUS AND SPI PRODUCT SUMMARY

4-bit PCA9536	GPIO	₽	
PCA9537 4-bit PC Fm TP GPIO with INT and RST PCA9570 4-bit I MHz LV TP GPIO PCA9574 8-bit PC Sm OB GPIO with INT and PU PCF8574 8-bit PC Fm OB GPIO with INT and PU PCA8574A 8-bit PC Fm OB GPIO with INT and PU (alternate address) PCA9574 8-bit PC Fm OB GPIO with INT and PU (alternate address) PCA9500 8-bit PC Fm OB GPIO with INT and PU (alternate address) PCA9501 8-bit PC Fm OB GPIO with INT and PU (alternate address) PCA9502 8-bit PC Fm/SP IT GPIO with INT and RST PCA9538 8-bit PC Fm/SP IT GPIO with INT and RST PCA9538 8-bit PC Fm TP GPIO with INT and RST PCA9538 8-bit PC Fm IV TP/OD GPIO with INT and RST PCA9538 8-bit PC Fm IV TP GPIO with INT and RST PCA9538 8-bit PC Fm IV TP/OD GPIO with INT and RST PCA9538 8-bit PC Fm IV TP/OD GPIO with INT and PU/PD PCA9540 8-bit PC Fm IV TP/OD GPIO with INT and PU/PD PCA9554 8-bit PC Fm IV TP/OD GPIO with INT and PU/PD PCA9554 8-bit PC Fm IV TP/OD GPIO with INT and PU/PD PCA9554 8-bit PC Fm IV TP/OD GPIO with INT and PU/PD PCA9554 8-bit PC Fm IV TP/OD GPIO with INT and PU/PD PCA9554 8-bit PC Fm IV TP/OD GPIO with INT and PU/PD PCA9554 8-bit PC Fm IV TP/OD GPIO with INT and PU/PD (PU default) PCA95540 8-bit PC Fm IV TP/OD GPIO with INT and PU/PD (PU default) PCA95540 8-bit PC Fm IV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA95540 8-bit PC Fm IV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA95540 8-bit PC Fm IV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9574 8-bit PC Fm IV TP/OD GPIO with INT, latch and PU/PD PCA957 8-bit PC Fm IV TP/OD GPIO with INT, latch and PU/PD PCA967 8-bit PC Fm IV TP/OD GPIO with INT and PU (alternate address for PCA9574 8-bit PC Fm IV TP/OD GPIO with INT, RST, latch and PU/PD PCA9674 8-bit PC Fm IV BO GPIO with INT and PU (alternate address) PCA957 8-bit PC Fm IV BO GPIO with INT and PU (alternate address) PCA957 8-bit PC Fm IV BO GPIO with INT And PU PCA9674 8-bit PC Fm IV BO GPIO with INT And PU PCA9674 8-bit PC Fm IV BO GPIO with INT And PU PCA9674 8-bit PC Fm IV BO GPIO with INT And PU PCA9675 16-bit PC Fm IV BO GPIO	Expand	er —	
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PCR574A  8-bit IPC Sm QB GPIO with INT and PU (alternate address) PCA9501  8-bit IPC Fm QB GPIO with INT, PU and 2-K EEPROM PCA9502  8-bit IPC Fm QB GPIO with INT, and PU PCA9534  8-bit IPC Fm TP GPIO with INT and RST PCA9538  8-bit IPC Fm LY PT GPIO with INT and RST PCA9538  8-bit IPC Fm LY PT GPIO with INT and RST PCA9538  8-bit IPC Fm LY PT GPIO with INT and RST PCAL9538A  8-bit IPC Fm LY VIT TP GPIO with INT, RST, latch and PU/PD PCA954A  8-bit IPC Fm LY VIT TP GPIO with INT and RST PCAL408A  8-bit IPC Fm LY VIT TP GPIO with INT and PST PCAL408A  8-bit IPC Fm LY VIT TP GPIO with INT and PST PCAP554B  8-bit IPC Fm LY PGPIO with INT and PU (alternate address for PCA9554) PCA9554B  8-bit IPC Fm LY TP GPIO with INT and PU (alternate address for PCA9554) PCA9554B  8-bit IPC Fm LY TP GPIO with INT and PU (alternate address for PCA9554) PCA9554C  PCA9554B  9-bit IPC Fm LY TP/OD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCAL9554B) PCA9554C  PCA9557B  PCA9571  8-bit IPC Fm LY TP/OD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCAL9554B) PCA9574  8-bit IPC Fm LY UTT POD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCAL9554B) PCA9574  8-bit IPC Fm LY UTT POD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCAL9554B) PCA9574  8-bit IPC Fm LY UTT TP/OD GPIO with INT, RST, latch and PU/PD PCA9670  8-bit IPC Fm LO BOPIO with INT, RST and PU PCA9671  8-bit IPC Fm LO BOPIO with INT, RST, latch and PU/PD PCA9674A  8-bit IPC Fm LO BOPIO with INT and PU PCA9674A  8-bit IPC Fm LO BOPIO with INT and PU PCA96751  16-bit IPC Fm DB GPIO with INT and PU PCA96751  16-bit IPC Fm DB GPIO with INT and PU PCA96751  16-bit IPC Fm DB GPIO with INT and PU PCA96751  16-bit IPC Fm DB GPIO with INT and PU PCA96751  16-bit IPC Fm DB GPIO with INT and RST PCAL9539A  16-bit IPC Fm IP GPIO with INT and RST PCAL9539A  16-bit IPC Fm IPC GPIO With INT AND PU PCA9675  16-bit IPC Fm IPC GPIO with INT And PU PCA9675  16-bit IPC Fm IPC GPIO with INT AND PU PCA9675  16			
PCA9500 8-bit PC Fm QB GPIO with PU and 2-K EEPROM PCA9501 8-bit PC Fm QB GPIO with INT, PU and 2-K EEPROM PCA9502 8-bit PC Fm PC GPIO with INT, PU and 2-K EEPROM PCA9503 8-bit PC Fm TP GPIO with INT PCA9538 8-bit PC Fm TP GPIO with INT and RST PCA9538 8-bit PC Fm TP GPIO with INT and RST PCA19538 8-bit PC Fm LV TP GPIO with INT and RST PCA19538 8-bit PC Fm LV VIT TP/OD GPIO with INT, RST, latch and PU/PD PCA6408A 8-bit PC Fm LV VIT TP/OD GPIO with INT, RST, latch and PU/PD PCA6408A 8-bit PC Fm LV VIT TP/OD GPIO with INT, RST, latch and PU/PD PCA9554B 8-bit PC Fm TP GPIO with INT and PU PCA9554B 8-bit PC Fm TP GPIO with INT and PU PCA9554B 8-bit PC Fm LV TP GPIO with INT and PU PCA9554B 8-bit PC Fm LV TP GPIO with INT and PU (alternate address for PCA9554B) PCA9554B 8-bit PC Fm LV TP GPIO with INT and PU (alternate address for PCA9554B) PCA9554B 8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCA19554B) PCA9557 8-bit PC Fm LV TP GPIO with INT, latch and PU/PD (PU default) (alternate address for PCA19554B) PCA9571 8-bit IN C Fm LV LV TT P/OD GPIO with INT, RST, latch and PU/PD PCA9672 8-bit PC Fm LV DR GPIO with INT, RST, latch and PU/PD PCA9674 8-bit PC Fm LQ BOPIO with INT, RST and PU PCA9672 8-bit PC Fm LQ BOPIO with INT, RST and PU PCA9674 8-bit PC Fm LQ BOPIO with INT and PU PCA9674 8-bit PC Fm LQ BOPIO with INT and PU PCA9675 16-bit PC Fm QB GPIO with INT and PU PCA9676 8-bit PC Fm DB GPIO with INT and PU PCA9679 14-bit SPI IB V GPI with INT PCA9535 16-bit PC Fm DB GPIO with INT and PU PCA9679 16-bit PC Fm DB GPIO with INT and PU PCA9679 16-bit PC Fm DB GPIO with INT and PU PCA9679 16-bit PC Fm DB GPIO with INT and PU PCA9679 16-bit PC Fm DB GPIO with INT and PU PCA9679 16-bit PC Fm DB GPIO with INT and PU PCA9679 16-bit PC Fm DB GPIO with INT and PU PCA9679 16-bit PC Fm DB GPIO with INT And RST PCAUS39A 16-bit PC Fm DB GPIO with INT And RST PCAUS39A 16-bit PC Fm DB GPIO with INT And RST PCAUS39A 16-bit PC Fm DB GPIO with INT And PU PCA9679 16-bit PC Fm DB GPIO with		PCA8574A	8-bit I <sup>2</sup> C Fm QB GPIO with INT and PU (alternate address)
PCA9501  PCA9502  8-bit IPC Fm QB GPIO with INT, PU and 2-K EEPROM PCA9502  8-bit IPC Fm TP GPIO with INT PCA9538  8-bit IPC Fm TP GPIO with INT PCA9538  8-bit IPC Fm TP GPIO with INT and RST PCA9538  8-bit IPC Fm TP GPIO with INT and RST PCA9538  8-bit IPC Fm LV TP GPIO with INT and RST PCA4508  8-bit IPC Fm LV TP GPIO with INT and RST PCA4508  8-bit IPC Fm LV VLT TP GPIO with INT, RST, latch and PU/PD PCA9554  8-bit IPC Fm LV VLT TP GPIO with INT and PU PCA9554  8-bit IPC Fm LV TP GPIO with INT and PU PCA9554  8-bit IPC Fm LV TP GPIO with INT and PU PCA9554  8-bit IPC Fm LV TP GPIO with INT and PU PCA9554  8-bit IPC Fm LV TP GPIO with INT, latch and PU/PD (PU default) PCA9554  8-bit IPC Fm LV TP GPIO with INT, latch and PU/PD (PU default) PCA9554  8-bit IPC Fm LV TP GPIO with INT, latch and PU/PD (PU default) PCA9554  8-bit IPC Fm LV TP GPIO with INT, latch and PU/PD (PU default) PCA9557  8-bit IPC Fm LV PGPIO with INT, latch and PU/PD (PU default) PCA9571  8-bit IPC Fm LV PGPIO with INT, latch and PU/PD (PU default) PCA9672  8-bit IPC Fm LP GPIO with INT, RST, latch and PU/PD PCA9674  8-bit IPC Fm LP GPIO with INT, RST and PU PCA9674  8-bit IPC Fm LP GPIO with INT, RST and PU PCA9674  8-bit IPC Fm LP GPIO with INT and PU (alternate address) PCA9754  8-bit IPC Fm LP GPIO with INT and PU PCA9674  8-bit IPC Fm LP GPIO with INT and PU PCA9674  8-bit IPC Fm LP GPIO with INT and PU PCA9675  16-bit IPC Fm DB GPIO with INT and PU PCA9676  8-bit IPC Fm CP GPIO with INT and PU PCA9639  16-bit IPC Fm DB GPIO with INT and PU PCA9539  16-bit IPC Fm DB GPIO with INT and PU PCA9539  16-bit IPC Fm DD GPIO with INT and PU PCA9539  16-bit IPC Fm DD GPIO with INT and PU PCA9539  16-bit IPC Fm DD GPIO with INT And PU PCA9539  16-bit IPC Fm DD GPIO with INT And RST PCAL9539  16-bit IPC Fm DD GPIO with INT And RST PCAL9539  16-bit IPC Fm DD GPIO with INT And RST PCAL9539  16-bit IPC Fm IV TY IPO GPIO with INT, RST, latch and PU/PD PCA9555  16-bit IPC Fm IV TY IPO GPIO with INT, RST, latch and PU/PD PCA9555  16-bit IPC Fm IV YIT T			· · · · · · · · · · · · · · · · · · ·
PCA9502 PCA9534 B-bit IPC Fm TP GPIO with INT and RST PCA9538 B-bit IPC Fm TP GPIO with INT PCA9538 B-bit IPC Fm LV TP GPIO with INT and RST PCA9538A B-bit IPC Fm LV TP GPIO with INT, and RST PCAL9538A B-bit IPC Fm LV TP GPIO with INT, and RST PCAL9538A B-bit IPC Fm LV VLT TP GPIO with INT, RST, latch and PU/PD PCA9554 B-bit IPC Fm LV VLT TP GPIO with INT, RST, latch and PU/PD PCA9554 B-bit IPC Fm TP GPIO with INT and PU PCA9554B B-bit IPC Fm LV TP GPIO with INT and PU (alternate address for PCA9554) PCA9554B B-bit IPC Fm LV TP GPIO with INT and PU (alternate address for PCA9554) PCA9554B B-bit IPC Fm LV TP GPIO with INT and PU (alternate address for PCA9554) PCA9554B B-bit IPC Fm LV TP GPIO with INT and PU (alternate address for PCA9554) PCA9554C Calternate address for PCAL9554B) PCA9557 B-bit IPC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9557 B-bit IPC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9570 B-bit IPC Fm TP GPIO with RST PCA9571 B-bit IPC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9670 B-bit IPC Fm LQ GPIO with RST and PU PCA9672 B-bit IPC Fm LQ GPIO with INT, RST and PU PCA9674 B-bit IPC Fm+ QB GPIO with INT, RST and PU PCA9674 B-bit IPC Fm+ QB GPIO with INT, RST and PU PCA9674 B-bit IPC Fm+ QB GPIO with INT and PU (alternate address) PCA9702 B-bit IPC Fm+ QB GPIO with INT and PU (alternate address) PCA9703 B-bit IPC Fm+ QB GPIO with INT and PU PCA8575 16-bit IPC Fm QB GPIO with INT and PU PCRS575 16-bit IPC Fm QB GPIO with INT and PU PCRS575 16-bit IPC Fm QB GPIO with INT and PU PCRS575 16-bit IPC Fm DB GPIO with INT and PU PCA9535A 16-bit IPC Fm DB GPIO with INT and PU PCA9535A 16-bit IPC Fm DB GPIO with INT and RST PCAL9539A 16-bit IPC Fm IV TP GPIO with INT and RST PCAL9539A 16-bit IPC Fm IV TP GPIO with INT and RST PCAL9539A 16-bit IPC Fm IV TP GPIO with INT and PU PCA95355 16-bit IPC Fm IV TP GPIO with INT and PU PCA9555 16-bit IPC Fm IV TP GPIO with INT and PU PCA9555 16-bit IPC Fm IV TP GPIO with INT AND PU PCA9555 16-bit IPC Fm IV TP GPIO with INT AND			
PCA9534         8-bit PC Fm TP GPIO with INT           + PCA9538         8-bit PC Fm TP GPIO with INT and RST           PCA9538A         8-bit PC Fm LV TP GPIO with INT and RST           PCAL953BA         8-bit PC Fm LV VLT TP GPIO with INT, RST, latch and PU/PD           PCA453BA         8-bit PC Fm LV VLT TP GPIO with INT and RST           PCA455BA         8-bit PC Fm LV TP GPIO with INT and PU           PCA955BA         8-bit PC Fm TP GPIO with INT and PU           PCA955BA         8-bit PC Fm LV TP GPIO with INT and PU           PCA955BB         8-bit PC Fm LV TP GPIO with INT and PU           PCA955BB         8-bit PC Fm LV TP GPIO with INT and PU (alternate address for PCA955BB)           PCA955CB         8-bit PC Fm LV TP GPIO with INT and PU (alternate address for PCA955BB)           PCA955AC         8-bit PC Fm LV TP GPIO with INT and PU (alternate address for PCA955BB)           PCA955AC         8-bit PC Fm TP GPIO with RST           PCA957B         8-bit PC Fm TP GPIO with RST           PCA9571         8-bit PC Fm LV PC GPO           PCA9573         8-bit PC Fm LD GPIO with INT, RST and PU           PCA9674         8-bit PC Fm QB GPIO with INT, RST and PU           PCA9674         8-bit PC Fm QB GPIO with INT           PCA9674A         8-bit PC Fm QB GPIO with INT           8-bit PC Fm QB GPIO with INT			·
# PCA9538			
PCA9538A 8-bit PC Fm LV TP GPIO with INT and RST PCAL9538A 8-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA96408A 8-bit PC Fm LV VLT TP GPIO with INT, RST, latch and PU/PD PCA9554 8-bit PC Fm TP GPIO with INT and PU PCA9554B 8-bit PC Fm TP GPIO with INT and PU PCA9554B 8-bit PC Fm TP GPIO with INT and PU PCA9554B 8-bit PC Fm LV TP GPIO with INT and PU PCA9554B PCAL9554B PCAL9554B 8-bit PC Fm LV TP GPIO with INT and PU PCA9554C PCA9555A PCA9554C PCA9555A PCA9554C PCA9555A PCA9554C PCA9555A P			
PCAL9538A 8-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA4088A 8-bit PC Fm LV VLT TP GPIO with INT and RST PCAL6408A 8-bit PC Fm LV VLT TP/OD GPIO with INT and RST PCAL6408A 8-bit PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9554 8-bit PC Fm TP GPIO with INT and PU (alternate address for PCA9554) PCA9554B 8-bit PC Fm LV TP GPIO with INT and PU (alternate address for PCA9554) PCA9554B 8-bit PC Fm LV TP/OD GPIO with INT, and PU/PD (PU default) PCA9554B 8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9554B 8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCA49554B) PCA9554B 8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCA49554B) PCA9557 8-bit PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD (PU default) (alternate address for PCA49554B) PCA9571 8-bit PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9571 8-bit PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9670 8-bit PC Fm QB GPIO with INT, RST and PU PCA9674A 8-bit PC Fm QB GPIO with INT, RST and PU PCA9674A 8-bit PC Fm QB GPIO with INT, RST and PU PCA9674A 8-bit PC Fm QB GPIO with INT, RST and PU PCA9674A 8-bit SP I1 8 V GPI with maskable INT 14-bit PCA9704 8-bit SP I1 8 V GPI with maskable INT 14-bit PCA9714 14-bit SP ILV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9535 16-bit PC Fm DB GPIO with INT and PU PCA9535 16-bit PC Fm DB GPIO with INT and PU PCA9535 16-bit PC Fm DB GPIO with INT PCA9535 16-bit PC Fm DB GPIO with INT PCA9539 16-bit PC Fm DB GPIO with INT PCA9539 16-bit PC Fm TP GPIO with INT And PU PCA9539 16-bit PC Fm DB GPIO with INT And PU PCA9539 16-bit PC Fm DB GPIO with INT And PU PCA9539 16-bit PC Fm DB GPIO with INT And RST PCA9539 16-bit PC Fm DB GPIO with INT And RST PCA9539 16-bit PC Fm DB GPIO with INT And RST PCA9539 16-bit PC Fm DB GPIO with INT And RST PCA9539 16-bit PC Fm DB GPIO with INT And RST PCA9539 16-bit PC Fm DB GPIO with INT, RST, latch and PU/PD PCA9555 16-bit PC Fm DB GPI			
PCA6408A         8-bit PC Fm LV VLT TP GPIO with INT and RST           PCA16408A         8-bit PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD           PCA9554         8-bit PC Fm TP GPIO with INT and PU (alternate address for PCA9554)           PCA9554A         8-bit PC Fm LV TP GPIO with INT and PU (alternate address for PCA9554)           PCA955B         8-bit PC Fm LV TP GPIO with INT and PU (alternate address for PCA9554)           PCA955AC         8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default)           PCA955AC         8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default)           PCA955B         8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default)           PCA957B         8-bit PC Fm PC PIO with RST           PCA9571         8-bit PC Fm PC QPIO with RST           PCA9571         8-bit PC Fm PC QPIO with RST           PCA9572         8-bit PC Fm QB GPIO with INT, RST and PU           PCA9672         8-bit PC Fm QB GPIO with INT and PU           PCA9674         8-bit PC Fm QB GPIO with INT and PU           PCA9674         8-bit SPI 18 V GPI with maskable INT           14-bit         + PCAL9714           4-bit SPI LIV VLT TP/OD GPIO with INT, RST, latch and PU/PD           PCA8575         16-bit PC Fm DB GPIO with INT and PU           PCA8575         16-bit PC Fm DB GPIO with INT and PU			
PCAL6408A 8-bit PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9554A 8-bit PC Fm TP GPIO with INT and PU PCA9554B 8-bit PC Fm TP GPIO with INT and PU PCA9554B 8-bit PC Fm LV TP GPIO with INT and PU PCA9554B 8-bit PC Fm LV TP GPIO with INT and PU PCA9554B 8-bit PC Fm LV TP GPIO with INT and PU (alternate address for PCA9554) PCA9554C PCA9554B 8-bit PC Fm LV TP GPIO with INT and PU (alternate address for PCA9554B) PCA9554C PCA9554B PCA9554C 8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCAL9554B) PCA9557 8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCAL9554B) PCA9571 8-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9574 8-bit PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9670 8-bit PC Fm LV BG GPIO with INT, RST and PU PCA9674 8-bit PC Fm QB GPIO with INT and PU (alternate address) PCA9702 8-bit PC Fm QB GPIO with INT and PU (alternate address) PCA9704 8-bit PC Fm QB GPIO with INT and PU (alternate address) PCA9705 14-bit PC Fm QB GPIO with INT and PU (alternate address) PCA9706 15-bit PC Fm QB GPIO with INT and PU (alternate address) PCA9707 16-bit PC Fm QB GPIO with INT and PU (alternate address) PCA9535 16-bit PC Fm QB GPIO with INT and PU PCA9535 16-bit PC Fm QB GPIO with INT and PU PCA9535 16-bit PC Fm DD GPIO with INT PCA9535 16-bit PC Fm DD GPIO with INT PCA9535 16-bit PC Fm LV TP/OD GPIO with INT PCA9539 16-bit PC Fm LV TP/OD GPIO with INT PCA9539A 16-bit PC Fm LV TP/OD GPIO with INT and RST PCA9539A 16-bit PC Fm LV TP/OD GPIO with INT and RST PCA9539A 16-bit PC Fm LV TP/OD GPIO with INT and RST PCA9539A 16-bit PC Fm LV TP/OD GPIO with INT and RST PCA9539A 16-bit PC Fm LV TP/OD GPIO with INT AND RST PCA9555 16-bit PC Fm LV TP/OD GPIO with INT AND RST PCA9555 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit PC Fm QB GPIO with INT AND PU			
PCA9554  8-bit IPC Fm TP GPIO with INT and PU (alternate address for PCA9554) PCA95548  8-bit IPC Fm LV TP GPIO with INT and PU PCA95548  8-bit IPC Fm LV TP GPIO with INT and PU PCA95548  8-bit IPC Fm LV TP GPIO with INT and PU (alternate address for PCA95549) PCA95540  PCA95540  PCA95541  8-bit IPC Fm LV TP GPIO with INT and PU (alternate address for PCA95541) PCA95542  PCA95545  PCA95545  PCA95548  PCA95549  PCA95549  PCA95540  8-bit IPC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCA95548)) PCA9571  8-bit IPC Fm LP GPIO with RST PCA9571  8-bit IPC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9670  8-bit IPC Fm LV BG GPIO with INT, RST, latch and PU/PD PCA9672  8-bit IPC Fm LOB GPIO with INT, RST and PU PCA9674  8-bit IPC Fm LOB GPIO with INT and PU (alternate address) PCA9702  8-bit SPI 18 V GPI with INT PCA9704  8-bit SPI 18 V GPI with INT PCA9704  8-bit SPI 18 V GPI with maskable INT  14-bit  14-bit  14-bit  PCA8575  16-bit IPC Fm CDB GPIO with INT and PU PCF8575  16-bit IPC Fm CDB GPIO with INT PCA95335  16-bit IPC Fm CDB GPIO with INT PCA95350  16-bit IPC Fm CDB GPIO with INT PCA95350  16-bit IPC Fm DD GPIO with INT PCA95350  16-bit IPC Fm LV TP/OD GPIO with INT PCA95350  16-bit IPC Fm LV TP GPIO with INT PCA95350  16-bit IPC Fm LV TP GPIO with INT PCA95350  16-bit IPC Fm LV TP/OD GPIO with INT PCA95350  16-bit IPC Fm LV TP/OD GPIO with INT PCA95350  16-bit IPC Fm LV TP/OD GPIO with INT and RST PCA6416A  16-bit IPC Fm LV TP/OD GPIO with INT and RST PCA6416A  16-bit IPC Fm LV TP/OD GPIO with INT and RST PCA6416A  16-bit IPC Fm LV TP/OD GPIO with INT and PU PCA9555  16-bit IPC Fm LV TP/OD GPIO with INT AND RST PCA6556A  16-bit IPC Fm LV TP/OD GPIO with INT AND RST PCA6751  16-bit IPC Fm LV TP/OD GPIO with INT AND RST PCA6673  16-bit IPC Fm LV TP/OD GPIO with INT AND RST PCA6751  16-bit IPC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9575  16-bit IPC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9671  16-bit IPC Fm LV TP/OD GPIO with INT, RST, latch and P			
PCA9554A  8-bit P°C Fm TP GPIO with INT and PU (alternate address for PCA9554) PCA9554B  8-bit P°C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9554C  PCA9554B  PCA9554C  8-bit P°C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9554C  PCA9554B)  PCA9557  8-bit P°C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCAL9554B) PCA9557  8-bit P°C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCAL9554B) PCA9571  8-bit P°C Fm TP GPIO with RST PCA9571  8-bit P°C Fm TP GPIO with RST PCA9571  8-bit P°C Fm P GPIO with INT, RST, latch and PU/PD PCA9672  8-bit P°C Fm+ QB GPIO with INT, RST, latch and PU/PD PCA9672  8-bit P°C Fm+ QB GPIO with INT, RST and PU PCA9674  8-bit P°C Fm+ QB GPIO with INT and PU PCA9674A  8-bit P°C Fm+ QB GPIO with INT and PU (alternate address) PCA9702  8-bit SPI 18 V GPI with INT PCA9704  8-bit P°C Fm QB GPIO with INT and PU PCF8575  16-bit P°C Fm QB GPIO with INT and PU PCF8575  16-bit P°C Fm QB GPIO with INT and PU PCF8575  16-bit P°C Fm QB GPIO with INT and PU PCF8575  16-bit P°C Fm DB GPIO with INT PCA9535A  16-bit P°C Fm DB GPIO with INT PCA9535A  16-bit P°C Fm DG GPIO with INT PCA9535A  16-bit P°C Fm DG GPIO with INT PCA9539A  16-bit P°C Fm DF GPIO with INT PCA9539A  16-bit P°C Fm TV TP GPIO with INT PCA9539A  16-bit P°C Fm TV TP GPIO with INT and RST PCAL9539A  16-bit P°C Fm LV TP/OD GPIO with INT and RST PCAL9539A  16-bit P°C Fm LV TP GPIO with INT and PU PCA9555  16-bit P°C Fm LV TP GPIO with INT and PU PCA9555  16-bit P°C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555  16-bit P°C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555  16-bit P°C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555  16-bit P°C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9575  16-bit P°C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9673  16-bit P°C Fm LV PO GPIO with INT, RST, latch and PU/PD PCA9673  16-bit P°C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9673  16-bit P°C Fm QB GPIO			
PCA9554B 8-bit PC Fm LV TP GPIO with INT and PU PCAL9554B 8-bit PC Fm LV TP GPIO with INT, latch and PU/PD (PU default) PCA9554C PCA9554C PCA9554C PCA9554C 8-bit PC Fm LV TP GPIO with INT and PU (alternate address for PCAL9554B) PCA9557 8-bit PC Fm LV TP GPIO with INT, latch and PU/PD (PU default) PCA9557 8-bit PC Fm LV TP GPIO with RST PCA9571 8-bit PC Fm LV TP GPIO With RST PCA9574 8-bit PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9670 8-bit PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9670 8-bit PC Fm QB GPIO with RST and PU PCA9674 8-bit PC Fm QB GPIO with INT and PU PCA9674 8-bit PC Fm QB GPIO with INT and PU PCA9674 8-bit PC Fm QB GPIO with INT and PU PCA9674 8-bit PC Fm QB GPIO with INT and PU PCA9674 8-bit PC Fm QB GPIO with INT and PU PCA9674 8-bit PC Fm QB GPIO with INT PCA9535 16-bit PC Fm QB GPIO with INT PCA9535 16-bit PC Fm QB GPIO with INT and PU PCF8575 16-bit PC Fm QB GPIO with INT PCA9535 16-bit PC Fm QB GPIO with INT PCA9535 16-bit PC Fm DD GPIO with INT PCA9535 16-bit PC Fm DD GPIO with INT PCA9535 16-bit PC Fm DD GPIO with INT PCA9539A 16-bit PC Fm LV TP GPIO with INT PCA9539A 16-bit PC Fm LV POD GPIO with INT and RST PCA9539A 16-bit PC Fm LV TP GPIO with INT and RST PCA9539A 16-bit PC Fm LV TP GPIO with INT and RST PCA9539A 16-bit PC Fm LV TP GPIO with INT and RST PCA9555A 16-bit PC Fm LV TP GPIO with INT and PU PCA955A 16-bit PC Fm LV TP OD GPIO with INT, RST, latch and PU/PD PCA955A 16-bit PC Fm LV TP GPIO with INT and RST PCA955B 16-bit PC Fm LV TP GPIO with INT and PU PCA955B 16-bit PC Fm LV TP GPIO with INT and PU PCA955B 16-bit PC Fm LV TP GPIO with INT and PU PCA955B 16-bit PC Fm LV TP GPIO with INT and PU PCA955B 16-bit PC Fm LV TP GPIO with INT and PU PCA955B 16-bit PC Fm LV TP GPIO with INT and PU PCA955B 16-bit PC Fm LV TP GPIO with INT AND PU PCA955B 16-bit PC Fm LV TP GPIO with INT AND PU PCA9675 16-bit PC Fm LV TP GPIO with INT AND PU PCA9675 16-bit PC Fm LV TP GPIO with INT AND PU PCA9675 16-bit PC Fm LV TP GPIO with INT, RST, latch and PU/PD PCA96			
PCAP554B B-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) B-bit PC Fm LV TP GPIO with INT and PU (alternate address for PCAP554C PCAP554B PCAP554C B-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCAL9554B) PCA9557 B-bit PC Fm TP GPIO with RST PCA9571 B-bit PC Fm TP GPIO with RST PCA9571 B-bit PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9670 B-bit PC Fm+ QB GPIO with INT, RST and PU PCA9670 B-bit PC Fm+ QB GPIO with INT, RST and PU PCA9674 B-bit PC Fm+ QB GPIO with INT and PU PCA9674 B-bit PC Fm+ QB GPIO with INT and PU PCA9674 B-bit PC Fm+ QB GPIO with INT and PU PCA9674 B-bit SPI 18 V GPI with INT PCA9700 B-bit SPI 18 V GPI with INT PCA9701 PCA8575 I6-bit PC Fm QB GPIO with INT, RST, latch and PU/PD PCR8575 I6-bit PC Fm QB GPIO with INT and PU PCR8575 I6-bit PC Fm QB GPIO with INT and PU PCR8575 I6-bit PC Fm QB GPIO with INT and PU PCR8575 I6-bit PC Fm DD GPIO with INT PCA9535 I6-bit PC Fm DD GPIO with INT PCA9535 I6-bit PC Fm TP GPIO with INT PCA9535A I6-bit PC Fm DD GPIO with INT PCA9535A I6-bit PC Fm DD GPIO with INT PCA9539A I6-bit PC Fm LV TP/OD GPIO with INT and RST PCA9539A I6-bit PC Fm LV TP GPIO with INT and RST PCA9539A I6-bit PC Fm LV TP GPIO with INT and RST PCA9539A I6-bit PC Fm LV TP/OD GPIO with INT and RST PCA9539A I6-bit PC Fm LV TP/OD GPIO with INT and RST PCA9539A I6-bit PC Fm LV TP/OD GPIO with INT and RST PCA9539A I6-bit PC Fm LV TP/OD GPIO with INT AND RST PCA9539A I6-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 I6-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 I6-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 I6-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 I6-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 I6-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 I6-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 I6-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 I6-bit PC Fm QB GPIO with INT, RST an			
PCA9554C PCA9554B) PCAL9554C PCA9554B) PCAL9554C PCA9554B) PCA9557 B-bit IPC Fm IV TP/OD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCAL9554B) PCA9557 PCA9557 B-bit IPC Fm TP GPIO with RST PCA9571 B-bit I MHz IV TP GPO PCA9574 B-bit IPC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9670 B-bit IPC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9672 B-bit IPC Fm+ QB GPIO with RST and PU PCA9674 B-bit IPC Fm+ QB GPIO with INT and PU PCA9674A B-bit IPC Fm+ QB GPIO with INT and PU PCA9674A B-bit IPC Fm+ QB GPIO with INT and PU PCA9702 B-bit SPI 18 V GPI with INT PCA9704 B-bit IPC Fm QB GPIO with INT and PU PCA8575 16-bit IPC Fm QB GPIO with INT and PU PCR8575 16-bit IPC Fm QB GPIO with INT and PU PCF8575 16-bit IPC Fm QB GPIO with INT and PU PCF8575 16-bit IPC Fm QB GPIO with INT PCA9535 16-bit IPC Fm DD GPIO with INT PCA9535 16-bit IPC Fm DD GPIO with INT PCA9535 16-bit IPC Fm DD GPIO with INT PCA9535 16-bit IPC Fm IV TP/OD GPIO with INT PCA9535A 16-bit IPC Fm IV TP/OD GPIO with INT PCA9539A 16-bit IPC Fm IV TP/OD GPIO with INT PCA9539A 16-bit IPC Fm IV TP/OD GPIO with INT and RST PCAL9539A 16-bit IPC Fm IV TP/OD GPIO with INT and RST PCAL9539A 16-bit IPC Fm IV TP/OD GPIO with INT AND RST PCAL9539A 16-bit IPC Fm IV TP/OD GPIO with INT AND RST PCAL9539A 16-bit IPC Fm IV TP/OD GPIO with INT RST, latch and PU/PD PCA9535 16-bit IPC Fm IV TP/OD GPIO with INT, RST, latch and PU/PD PCA9535A 16-bit IPC Fm IV TP/OD GPIO with INT, RST, latch and PU/PD PCA9535A 16-bit IPC Fm IV VIT TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit IPC Fm IV VIT TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit IPC Fm IV VIT TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit IPC Fm IV VIT TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit IPC Fm LW VIT TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit IPC Fm QB GPIO with INT, RST and PU PCA9675 16-bit IPC Fm QB GPIO with INT, RST and PU PCA9675 16-bit IPC Fm QB GPIO with INT, RST and PU PCA9675 16-bit IPC Fm QB GPIO with			
PCA9554D  8-bit PC Fm IV TP/OD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCAL9554B)  PCA9557  8-bit PC Fm TP GPIO with RST  PCA9571  8-bit PC Fm IV TP/OD GPIO with INT, RST, latch and PU/PD  PCA9571  8-bit PC Fm IV VIT TP/OD GPIO with INT, RST, latch and PU/PD  PCA9670  8-bit PC Fm LV VIT TP/OD GPIO with INT, RST, latch and PU/PD  PCA9672  8-bit PC Fm+ QB GPIO with INT, RST and PU  PCA9674  8-bit PC Fm+ QB GPIO with INT and PU  PCA9674A  8-bit PC Fm+ QB GPIO with INT and PU  PCA9674A  8-bit PC Fm+ QB GPIO with INT and PU  PCA9702  8-bit SPI 18 V GPI with maskable INT  14-bit  14-bit  PCA8575  16-bit PC Fm QB GPIO with INT and PU  PCF8575  16-bit PC Fm QB GPIO with INT and PU  PCF8575  16-bit PC Fm QB GPIO with INT and PU  PCF8575  16-bit PC Fm DG GPIO with INT  PCA9535  16-bit PC Fm DG GPIO with INT  PCA9535  16-bit PC Fm TP GPIO with INT  PCA9539A  16-bit PC Fm TP GPIO with INT and RST  PCAL9539A  16-bit PC Fm TP GPIO with INT and RST  PCA49539A  16-bit PC Fm TP GPIO with INT and RST  PCA49539A  16-bit PC Fm TP GPIO with INT and RST  PCA49539A  16-bit PC Fm TP GPIO with INT and RST  PCA49539A  16-bit PC Fm TP GPIO with INT and RST  PCA49539A  16-bit PC Fm TP GPIO with INT and RST  PCA49539A  16-bit PC Fm TP GPIO with INT and RST  PCA49539A  16-bit PC Fm TP GPIO with INT and RST  PCA49539A  16-bit PC Fm TP GPIO with INT and RST  PCA49539A  16-bit PC Fm TP GPIO with INT and RST  PCA49539A  16-bit PC Fm TP GPIO with INT and RST  PCA49639A  16-bit PC Fm TP GPIO with INT and RST  PCA49639A  16-bit PC Fm TP GPIO with INT AND RST, latch and PU/PD  PCA9675  16-bit PC Fm TP GPIO with INT AND RST, latch and PU/PD  PCA9675  16-bit PC Fm TP GPIO with INT AND PU  PCA9673  16-bit PC Fm TP GPIO with INT, RST, latch and PU/PD  PCA9671  16-bit PC Fm LV TTP/OD GPIO with INT, RST, latch and PU/PD  PCA9675  16-bit PC Fm QB GPIO with INT, RST and PU  PCA9671  16-bit PC Fm QB GPIO with INT			
PCAP554C (alternate address for PCAL9554B) PCA9577 8-bit PC Fm TP GPIO with RST PCA9571 8-bit PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9574 8-bit PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9670 8-bit PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9672 8-bit PC Fm+ QB GPIO with INT, RST and PU PCA9674 8-bit PC Fm+ QB GPIO with INT and PU PCA9674A 8-bit PC Fm+ QB GPIO with INT and PU PCA9674A 8-bit PC Fm+ QB GPIO with INT and PU PCA9674A 8-bit SPI 18 V GPI with INT PCA96702 8-bit SPI 18 V GPI with INT PCA9704 8-bit SPI 18 V GPI with INT PCA9704 8-bit SPI 18 V GPI with INT PCA9575 16-bit PC Fm QB GPIO with INT, RST, latch and PU/PD PCR8575 16-bit PC Fm QB GPIO with INT and PU PCR8575 16-bit PC Fm QB GPIO with INT and PU PCR8575 16-bit PC Fm DO GPIO with INT PCA9535 16-bit PC Fm DO GPIO with INT PCA9535 16-bit PC Fm TP GPIO with INT PCA9535 16-bit PC Fm TP GPIO with INT PCA9535 16-bit PC Fm LV TP/OD GPIO with INT PCA9535 16-bit PC Fm LV TP GPIO with INT PCA9535 16-bit PC Fm LV TP GPIO with INT and RST PCA9539A 16-bit PC Fm LV TP GPIO with INT and RST PCA9539A 16-bit PC Fm LV TP GPIO with INT and RST PCA9539A 16-bit PC Fm LV TP GPIO with INT and RST PCA46416A 16-bit PC Fm LV TP GPIO with INT and RST PCA46416A 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9671 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9671 16-bit PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit SPI 18 V GPI with INT PCAL6524 24 bit PC Fm+ ULV VLT TP/OD GPIO with INT, RST, latch and PU/PD P		PCA9554C	PCA9554B)
PCA9571 8-bit 1 MHz LV TP GPO PCA9574 8-bit 1 PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9670 8-bit 1 PC Fm + QB GPIO with INT, RST and PU PCA9672 8-bit 1 PC Fm + QB GPIO with INT, RST and PU PCA9674 8-bit 1 PC Fm + QB GPIO with INT and PU PCA9674 8-bit 1 PC Fm + QB GPIO with INT and PU PCA9674 8-bit 1 PC Fm + QB GPIO with INT and PU (alternate address) PCA9702 8-bit SPI 18 V GPI with maskable INT + PCA9704 8-bit SPI 18 V GPI with maskable INT + PCA9704 14-bit SPI LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA8575 16-bit 1 PC Fm QB GPIO with INT and PU PCR8575 16-bit 1 PC Fm QB GPIO with INT PCA9535 16-bit 1 PC Fm OD GPIO with INT PCA9535 16-bit 1 PC Fm DO GPIO with INT PCA9535 16-bit 1 PC Fm DO GPIO with INT PCA9535A 16-bit 1 PC Fm DO GPIO with INT PCA9535A 16-bit 1 PC Fm DO GPIO with INT PCA9539A 16-bit 1 PC Fm PT PGPIO with INT PCA9539A 16-bit 1 PC Fm PT PGPIO with INT and RST PCA9539A 16-bit 1 PC Fm PT GPIO with INT and RST PCA9539A 16-bit 1 PC Fm LV TP GPIO with INT and RST PCA9539A 16-bit 1 PC Fm LV TP GPIO with INT and RST PCA49539A 16-bit 1 PC Fm LV TP GPIO with INT and RST PCA49539A 16-bit 1 PC Fm LV TP GPIO with INT, RST, latch and PU/PD PCA6416A 16-bit 1 PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA6416A 16-bit 1 PC Fm LV VLT TP GPIO with INT, RST, latch and PU/PD PCA9555 16-bit 1 PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit 1 PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit 1 PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit 1 PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit 1 PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit 1 PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit 1 PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit 1 PC Fm LV GPI with INT PCA9701 16-bit SPI 18 V GPI with INT PCA96701 16-			(alternate address for PCAL9554B)
PCA9574 8-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9670 8-bit I <sup>2</sup> C Fm+ QB GPIO with RST and PU PCA9672 8-bit I <sup>2</sup> C Fm+ QB GPIO with INT, RST and PU PCA9674 8-bit I <sup>2</sup> C Fm+ QB GPIO with INT and PU PCA9674A 8-bit I <sup>2</sup> C Fm+ QB GPIO with INT and PU PCA9674A 8-bit SPI 18 V GPI with INT PCA9702 8-bit SPI 18 V GPI with INT PCA9704 8-bit SPI 18 V GPI with Maskable INT PCA9704 8-bit SPI 18 V GPI with Maskable INT PCA9704 14-bit SPI LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA8575 16-bit I <sup>2</sup> C Fm QB GPIO with INT and PU PCF8575 16-bit I <sup>2</sup> C Fm QB GPIO with INT PCA95351 16-bit I <sup>2</sup> C Fm DG GPIO with INT PCA95352 16-bit I <sup>2</sup> C Fm DG GPIO with INT PCA95353 16-bit I <sup>2</sup> C Fm DG GPIO with INT PCA95354 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT PCA95355 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT PCA95354 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT PCA95355 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, latch and PU/PD PCA9539A 16-bit I <sup>2</sup> C Fm TP GPIO with INT and RST PCAL9539A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT and RST PCAL9539A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA6416A 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555A 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9671 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9671 16-bit I <sup>2</sup> C Fm LV GPIO with INT, RST, latch and PU/PD PCA9673 16-bit I <sup>2</sup> C Fm LV GPIO with INT, RST, latch and PU/PD PCA9675 16-bit I <sup>2</sup> C Fm LV GPIO with INT, RST, latch and PU/PD PCA9675 16-bit I <sup>2</sup> C Fm LV GPIO with INT, RST, latch and PU/PD PCA9675 16-bit I <sup>2</sup> C Fm LV GPIO with INT, RST, latch and PU/PD PCA9675 16-bit I <sup>2</sup> C Fm LV GPIO with INT, RST, latch and PU/PD PCA9675 16-bit SPI 18 V GPI with INT PCA9701 16-bit SPI			
PCA9670 8-bit IPC Fm+ QB GPIO with RST and PU PCA9672 8-bit IPC Fm+ QB GPIO with INT, RST and PU PCA9674 8-bit IPC Fm+ QB GPIO with INT and PU PCA9674A 8-bit IPC Fm+ QB GPIO with INT and PU PCA9674A 8-bit IPC Fm+ QB GPIO with INT and PU (alternate address) PCA9702 8-bit SPI 18 V GPI with INT + PCA9704 8-bit SPI 18 V GPI with INT and PU (alternate address) PCA9704 8-bit SPI 18 V GPI with INT and PU (alternate address) PCA9704 8-bit SPI 18 V GPI with INT and PU (alternate address) PCA9704 8-bit SPI 18 V GPI with INT and PU PCA9704 14-bit SPI LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9575 16-bit IPC Fm QB GPIO with INT and PU PCF8575 16-bit IPC Fm QB GPIO with INT PCA9535 16-bit IPC Fm DO GPIO with INT PCA9535 16-bit IPC Fm DO GPIO with INT PCA9535A 16-bit IPC Fm LV TP/OD GPIO with INT PCA9535A 16-bit IPC Fm LV TP/OD GPIO with INT, latch and PU/PD + PCA9539A 16-bit IPC Fm LV TP/OD GPIO with INT and RST + PCA9539A 16-bit IPC Fm LV TP/OD GPIO with INT and RST PCAL9539A 16-bit IPC Fm LV TP/OD GPIO with INT and RST PCAL6416A 16-bit IPC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555A 16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555A 16-bit IPC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555A 16-bit IPC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555A 16-bit IPC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit IPC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9671 16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit IPC Fm LQ GPIO with INT, RST and PU PCA9675 16-bit IPC Fm LQ GPIO with INT, RST and PU PCA9675 16-bit IPC Fm LQ GPIO with INT, RST, latch and PU/PD PCA9675 16-bit IPC Fm LQ GPIO with INT, RST, latch and PU/PD PCA9675 16-bit IPC Fm LQ GPIO with INT, RST, latch and PU/PD PCA9671 16-bit IPC Fm LQ GPIO with INT, RST, latch and PU/PD PCA9670 16-bit SPI 18 V GPI with INT + PCA9701 16-bit SPI 18 V GPI with INT + PCA9702 22-bit SPI LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9505 40-bit IPC Fm P GPIO with INT			
PCA9672 8-bit IPC Fm+ QB GPIO with INT, RST and PU PCA9674 8-bit IPC Fm+ QB GPIO with INT and PU PCA9674A 8-bit SPI 18 V GPI with INT and PU (alternate address) PCA9702 8-bit SPI 18 V GPI with INT PCA9704 8-bit SPI 18 V GPI with INT PCA9704 14-bit SPI LV VLT TP/OD GPIO with INT, RST, latch and PU/PD 14-bit PCAB575 16-bit IPC Fm QB GPIO with INT and PU PCF8575 16-bit IPC Fm QB GPIO with INT and PU PCF8575 16-bit IPC Fm QB GPIO with INT PCA9535 16-bit IPC Fm DO GPIO with INT PCA9535 16-bit IPC Fm DO GPIO with INT PCA9535A 16-bit IPC Fm LV TP GPIO with INT PCA9535A 16-bit IPC Fm LV TP GPIO with INT PCA9539A 16-bit IPC Fm TP GPIO with INT and RST PCA9539A 16-bit IPC Fm TP GPIO with INT and RST PCA9539A 16-bit IPC Fm TP GPIO with INT and RST PCA9539A 16-bit IPC Fm LV TP/OD GPIO with INT and RST PCA9539A 16-bit IPC Fm LV TP/OD GPIO with INT and RST PCA9539A 16-bit IPC Fm LV TP/OD GPIO with INT and RST PCA49539A 16-bit IPC Fm LV TP/OD GPIO with INT and RST PCA416A 16-bit IPC Fm LV VLT TP/OD GPIO with INT and RST PCA416A 16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555A 16-bit IPC Fm LV TP/OD GPIO with INT and PU PCA9555A 16-bit IPC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9671 16-bit IPC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9671 16-bit IPC Fm LV GPIO with INT, RST and PU PCA9673 16-bit IPC Fm LV GPIO with INT, RST and PU PCA9670 16-bit IPC Fm LO GPIO with INT, RST and PU PCA9670 16-bit IPC Fm LO GPIO with INT, RST, latch and PU/PD PCA9671 16-bit IPC Fm LO GPIO with INT, RST, latch and PU/PD PCA9670 16-bit IPC Fm LO GPIO with INT, RST, latch and PU/PD PCA9671 16-bit IPC Fm LO GPIO with INT, RST, latch and PU/PD PCA9670 16-bit IPC Fm LO GPIO with INT, RST, latch and PU/PD PCA9670 16-bit IPC Fm LO GPIO with INT, RST, latch and PU/PD PCA9605 40-bit IPC Fm HOLV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9605 40-bit IPC Fm HOLV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9605 40-bit IPC Fm HOLV VLT			
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PCA9702 8-bit SPI 18 V GPI with INT  + PCA9704 8-bit SPI 18 V GPI with maskable INT  14-bit + PCAL9714 14-bit SPI LV VLT TP/OD GPIO with INT, RST, latch and PU/PD  PCA8575 16-bit I²C Fm QB GPIO with INT and PU  PCF8575 16-bit I²C Fm QB GPIO with INT  PCA9535 16-bit I²C Fm QB GPIO with INT  PCA9535 16-bit I²C Fm DD GPIO with INT  PCA9535 16-bit I²C Fm DD GPIO with INT  PCA9535A 16-bit I²C Fm LV TP GPIO with INT  PCAP535A 16-bit I²C Fm LV TP/OD GPIO with INT  PCA9539A 16-bit I²C Fm TP GPIO with INT and RST  + PCA9539A 16-bit I²C Fm LV TP GPIO with INT and RST  + PCA9539A 16-bit I²C Fm LV TP/OD GPIO with INT, latch and PU/PD  PCA9539A 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD  PCA6416A 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD  PCA9555A 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD  PCA9555A 16-bit I²C Fm LV TP/OD GPIO with INT and PU  PCA9555A 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD  PCA9555A 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD  PCA9555 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD  PCA9673 16-bit I²C Fm LV TTP/OD GPIO with INT, RST, latch and PU/PD  PCA9673 16-bit I²C Fm LV TTP/OD GPIO with INT, RST, latch and PU/PD  PCA9673 16-bit I²C Fm LV STP/OD GPIO with INT, RST, latch and PU/PD  PCA9673 16-bit I²C Fm LV B GPIO with INT, RST and PU  PCA9673 16-bit I²C Fm LV B GPIO with INT, RST and PU  PCA9673 16-bit I²C Fm LV B GPIO with INT, RST and PU  PCA9701 16-bit I²C Fm LV B GPIO with INT, RST and PU  PCA9701 16-bit I²C Fm LV B GPIO with INT, RST, latch and PU/PD  PCA9701 16-bit I²C Fm LV B GPIO with INT, RST, latch and PU/PD  PCA9675 16-bit I²C Fm LV B GPIO with INT, RST, latch and PU/PD  PCA9675 16-bit I²C Fm LV B GPIO with INT, RST, latch and PU/PD  PCA9675 16-bit I²C Fm C D GPIO with INT, RST, latch and PU/PD  PCA9675 16-bit I²C Fm C D GPIO with INT, RST, latch and PU/PD  PCA9675 16-bit I²C Fm C D GPIO with INT, RST, latch and PU/PD  PCA9675 16-bit I²C Fm C D GPIO with INT, RST, latch and PU/PD  PCA9675 1			
+ PCA9704  8-bit SPI 18 V GPI with maskable INT  14-bit			
14-bit + PCAL9714			
16-bit PCA8575 16-bit I <sup>2</sup> C Fm QB GPIO with INT and PU PCF8575 16-bit I <sup>2</sup> C Fm QB GPIO with INT PCF8575 16-bit I <sup>2</sup> C Fm QB GPIO with INT PCA9535 16-bit I <sup>2</sup> C Fm DD GPIO with INT PCA9535 16-bit I <sup>2</sup> C Fm DD GPIO with INT PCA9535A 16-bit I <sup>2</sup> C Fm LV TP GPIO with INT PCA9535A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT PCA9535A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, latch and PU/PD + PCA9539 16-bit I <sup>2</sup> C Fm TP GPIO with INT and RST + PCA9539R 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT and RST PCA9539A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9539A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9539A 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9575 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9671 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit I <sup>2</sup> C Fm QB GPIO with INT, RST and PU PCA9675 16-bit I <sup>2</sup> C Fm QB GPIO with INT, RST and PU PCA9701 16-bit SPI 18 V GPI with INT + PCA9703 16-bit SPI 18 V GPI with INT + PCA9703 16-bit SPI 18 V GPI with INT + PCA9703 22-bit SPI LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA16524 24 bit I <sup>2</sup> C Fm + ULV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA16534 34 bit I <sup>2</sup> C Fm + ULV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9505 40-bit I <sup>2</sup> C Fm TP GPIO with INT, RST, OE and PU	14-bit		
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PCA9535 16-bit I <sup>2</sup> C Fm TP GPIO with INT PCA9535C 16-bit I <sup>2</sup> C Fm OD GPIO with INT PCA9535A 16-bit I <sup>2</sup> C Fm LV TP GPIO with INT PCAL9535A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, latch and PU/PD + PCA9539 16-bit I <sup>2</sup> C Fm TP GPIO with INT and RST + PCA9539R 16-bit I <sup>2</sup> C Fm TP GPIO with INT and RST (state machine only) PCA9539A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9539A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA6416A 16-bit I <sup>2</sup> C Fm LV VLT TP GPIO with INT, RST, latch and PU/PD PCA9555 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT and PU PCA9555A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9575 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9671 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit I <sup>2</sup> C Fm QB GPIO with INT, RST and PU PCA9675 16-bit I <sup>2</sup> C Fm QB GPIO with INT and PU PCA9701 16-bit SPI 18 V GPI with INT + PCA9703 16-bit SPI 18 V GPI with INT + PCA9703 16-bit SPI 18 V GPI with INT + PCA9703 22-bit SPI LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA16524 24 bit I <sup>2</sup> C Fm + ULV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA16534 34 bit I <sup>2</sup> C Fm + ULV VLT TP/OD GPIO with INT, RST, latch and PU/PD		PCF8575	
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PCA9535A 16-bit I <sup>2</sup> C Fm LV TP GPIO with INT PCAL9535A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, latch and PU/PD + PCA9539 16-bit I <sup>2</sup> C Fm TP GPIO with INT and RST + PCA9539R 16-bit I <sup>2</sup> C Fm TP GPIO with INT and RST (state machine only) PCA9539A 16-bit I <sup>2</sup> C Fm LV TP GPIO with INT and RST PCAL9539A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA6416A 16-bit I <sup>2</sup> C Fm LV VLT TP GPIO with INT, RST, latch and PU/PD PCA9555 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555A 16-bit I <sup>2</sup> C Fm LV TP GPIO with INT and PU PCA9555A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9575 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9671 16-bit I <sup>2</sup> C Fm LW VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit I <sup>2</sup> C Fm+ QB GPIO with INT, RST and PU PCA9675 16-bit I <sup>2</sup> C Fm+ QB GPIO with INT and PU PCA9701 16-bit SPI 18 V GPI with INT + PCA9703 16-bit SPI 18 V GPI with INT + PCA9703 16-bit SPI 18 V GPI with INT + PCA9703 22-bit SPI LV VLT TP/OD GPIO with INT, RST, latch and PU/PD 22-bit PCAL6524 24 bit I <sup>2</sup> C Fm+ ULV VLT TP/OD GPIO with INT, RST, latch and PU/PD 34-bit PCAL6534 34 bit I <sup>2</sup> C Fm+ ULV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9505 40-bit I <sup>2</sup> C Fm TP GPIO with INT, RST, OE and PU		PCA9535	16-bit I <sup>2</sup> C Fm TP GPIO with INT
PCAL9535A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, latch and PU/PD + PCA9539 16-bit I <sup>2</sup> C Fm TP GPIO with INT and RST + PCA9539R 16-bit I <sup>2</sup> C Fm TP GPIO with INT and RST (state machine only) PCA9539A 16-bit I <sup>2</sup> C Fm LV TP GPIO with INT and RST PCAL9539A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA6416A 16-bit I <sup>2</sup> C Fm LV VLT TP GPIO with INT, RST, latch and PU/PD PCA9555 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555A 16-bit I <sup>2</sup> C Fm LV TP GPIO with INT and PU PCA9555A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9575 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9671 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit I <sup>2</sup> C Fm+ QB GPIO with INT, RST and PU PCA9675 16-bit I <sup>2</sup> C Fm+ QB GPIO with INT and PU PCA9701 16-bit SPI 18 V GPI with INT + PCA9703 16-bit SPI 18 V GPI with INT + PCA9703 16-bit SPI 18 V GPI with INT + PCA9703 22-bit SPI LV VLT TP/OD GPIO with INT, RST, latch and PU/PD 22-bit PCAL6524 24 bit I <sup>2</sup> C Fm+ ULV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9505 40-bit I <sup>2</sup> C Fm+ ULV VLT TP/OD GPIO with INT, RST, latch and PU/PD		PCA9535C	16-bit I <sup>2</sup> C Fm OD GPIO with INT
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PCA9539A 16-bit I <sup>2</sup> C Fm LV TP GPIO with INT and RST PCAL9539A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA6416A 16-bit I <sup>2</sup> C Fm LV VLT TP GPIO with INT and RST PCAL6416A 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit I <sup>2</sup> C Fm TP GPIO with INT and PU PCA9555A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9575 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9575 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9671 16-bit I <sup>2</sup> C Fm+ QB GPIO with INT, RST and PU PCA9673 16-bit I <sup>2</sup> C Fm+ QB GPIO with INT, RST and PU PCA9675 16-bit I <sup>2</sup> C Fm+ QB GPIO with INT and PU PCA9701 16-bit SPI 18 V GPI with INT + PCA9703 16-bit SPI 18 V GPI with INT + PCA9703 16-bit SPI 18 V GPI with maskable INT 22-bit + PCAL9722 22-bit SPI LV VLT TP/OD GPIO with INT, RST, latch and PU/PD 24-bit PCAL6524 24 bit I <sup>2</sup> C Fm+ ULV VLT TP/OD GPIO with INT, RST, latch and PU/PD 34-bit PCAL6534 34 bit I <sup>2</sup> C Fm+ ULV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9505 40-bit I <sup>2</sup> C Fm TP GPIO with INT, RST, OE and PU		+ PCA9539	16-bit I <sup>2</sup> C Fm TP GPIO with INT and RST
PCAL9539A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA6416A 16-bit I <sup>2</sup> C Fm LV VLT TP GPIO with INT and RST PCAL6416A 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit I <sup>2</sup> C Fm TP GPIO with INT and PU PCA9555A 16-bit I <sup>2</sup> C Fm LV TP GPIO with INT and PU PCAL9555A 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9575 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9671 16-bit I <sup>2</sup> C Fm + QB GPIO with INT, RST and PU PCA9673 16-bit I <sup>2</sup> C Fm + QB GPIO with INT, RST and PU PCA9675 16-bit I <sup>2</sup> C Fm + QB GPIO with INT and PU PCA9701 16-bit SPI 18 V GPI with INT + PCA9703 16-bit SPI 18 V GPI with INT + PCA9703 16-bit SPI 18 V GPI with maskable INT 22-bit + PCAL9722 22-bit SPI LV VLT TP/OD GPIO with INT, RST, latch and PU/PD 24-bit PCAL6524 24 bit I <sup>2</sup> C Fm + ULV VLT TP/OD GPIO with INT, RST, latch and PU/PD 34-bit PCAL6534 34 bit I <sup>2</sup> C Fm + ULV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9505 40-bit I <sup>2</sup> C Fm TP GPIO with INT, RST, OE and PU		+ PCA9539R	16-bit I <sup>2</sup> C Fm TP GPIO with INT and RST (state machine only)
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PCA9671 16-bit I <sup>2</sup> C Fm+ QB GPIO with RST and PU PCA9673 16-bit I <sup>2</sup> C Fm+ QB GPIO with INT, RST and PU PCA9675 16-bit I <sup>2</sup> C Fm+ QB GPIO with INT and PU PCA9701 16-bit SPI 18 V GPI with INT + PCA9703 16-bit SPI 18 V GPI with maskable INT + PCAL9722 22-bit SPI LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCAL6524 24 bit I <sup>2</sup> C Fm+ ULV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCAL6534 34 bit I <sup>2</sup> C Fm+ ULV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9505 40-bit I <sup>2</sup> C Fm TP GPIO with INT, RST, OE and PU		PCAL9555A	
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40-bit PCA9505 40-bit I <sup>2</sup> C Fm TP GPIO with INT, RST, OE and PU	24-bit		
	34-bit		
PCA9506 40-bit I <sup>2</sup> C Fm TP GPIO with INT, RST and OE	40-bit		
		PC A O E O A	40-bit I2C Em TP GPIO with INT RST and OF
PCA9698 40-bit I <sup>2</sup> C Fm+ TP/OD GPIO with INT, RST, OE and PU			

Controlle	er	
1 motor controller	PCA9629A	Improved I <sup>2</sup> C Fm+ stepper motor controller with TP GPIO with INT and RSTC
Temp Sensors	<b>□</b> 8	
Local	LM75B	$\ensuremath{^{12}\text{C}}$ Fm TS local with $\pm~2~\ensuremath{^{\circ}\text{C}}$ accuracy and SMBus timeout
	SE98A	$\mbox{\sc l}^2\mbox{\sc C}$ Fm JEDEC DDR3 TS, no SPD, +/- 1 $^{\circ}\mbox{\sc C}$ accuracy and SMBus timeout
	PCT2075	I <sup>2</sup> C Fm+ TS with +/- 1 °C accuracy and SMBus timeout Default interrupt trip is + 85 °C
	PCT2075GV/ N005	Default interrupt trip -5 °C — for freezer alarm
	PCT2075GV/ P110	Default interrupt trip + 110 °C — prevent spurious alarm in high temp environment
	P3T1085UK	I3C and I $^2$ C HsM TS with +/- 0.5 $^{\circ}$ C accuracy and SMBus timeout
	+ P3T1755DP	I3C and I $^2$ C HsM TS with +/- 0.5 $^{\circ}$ C accuracy and SMBus timeout
Local and EEPROM	SE97B	$\mbox{I$^2$C}$ Fm JEDEC DDR3 TS local with $\pm$ 1 $\mbox{°C}$ accuracy, 2K SPD and SMBus timeout
Local and remote	SA56004	$\mbox{\sc I}^2\mbox{\sc C}$ HSmTS, 1.8 V, + 1 $\mbox{\sc C}$ accuracy and SMBus timeout
LED Drivers	*	

## Open Drain or Totem Pole Voltage Source

Stepper Motor

Open Drain of Totelli Fole Voltage Source				
Dimmer	PCA9530	2-channel I <sup>2</sup> C Fm OD LED dimmer with RST		
(2 PWM, 25 mA/ 5 V)	PCA9531	8-channel I <sup>2</sup> C Fm OD LED dimmer with RST		
25 IIIAV 5 V)	PCA9532	16-channel I <sup>2</sup> C Fm OD LED dimmer with RST		
	PCA9533	4-channel I <sup>2</sup> C Fm OD LED dimmer		
Blinker	PCA9550	2-channel I <sup>2</sup> C Fm OD LED blinker with RST		
(2 PWM, 25 mA/5 V)	PCA9551	8-channel I <sup>2</sup> C Fm OD LED blinker with RST		
25 1112/5 V)	PCA9552	16-channel I <sup>2</sup> C Fm OD LED blinker with RST		
	PCA9553	4-channel I <sup>2</sup> C Fm OD LED blinker		
Controller	PCA9632	4-channel I <sup>2</sup> C Fm+ low-power TP LED controller		
(PWM/Ch, 25 mA/ 5 V)	PCA9633	4-channel I <sup>2</sup> C Fm+ TP LED controller with OE		
23 111/2/ 3 V)	PCA9634	8-channel I <sup>2</sup> C Fm+ TP LED controller with OE		
	+ PCA9635	16-channel I <sup>2</sup> C Fm+ TP LED controller with OE		
	+ PCA9685	16-channel I <sup>2</sup> C Fm+ TP LED controller with 12-bit PWMs and OE		

### Open Drain Constant Current

Driver	+ PCA9952	16-channel I <sup>2</sup> C Fm+ HV CS LED driver with OE
(PWM/Ch, 57 mA/ 40 V)	+ PCA9955	16-channel I <sup>2</sup> C Fm+ HV CS LED driver
Driver	+ PCA9955B	16-channel I <sup>2</sup> C Fm+ CC LED driver
(PWM/Ch, 57 mA/ 20 V)	+ PCA9745B	16-channel SPI CC LED driver
37 IIIAV 20 V)	PCA9956B	24-channel I <sup>2</sup> C Fm+ CC LED driver
Driver	PCA9957	24-channel SPI CC LED driver — 32 mA per ch
(PWM, 5 V)	+ PCA9958	24-channel SPI CC LED driver — 63 mA per ch
	PCA9959	24-channel SPI CC LED driver — 63 mA per ch — 64 grids

Power managem integrated circui			
PCA942X	i.MX RT5/600 including battery charger		
PCA9450	i.MX 8M family with 12 power rails		
PCA9460	i.MX 8ULP with 13 power rails		
PCA9451	i.MX 93 with 12 power rails		

Real-time		
Clocks	Ö	
Low-power	PCF2123	SPI lower power RTC with alarm, timer and interrupt
	PCF85053A	Bootable CPU I <sup>2</sup> C Fm RTC with two I2C controllers, 128 Byte SRAM and alarm function
	PCF85063	I <sup>2</sup> C Fm/Tiny RTC with 30s, 60s interrupt
	PCF85063A/B	I <sup>2</sup> C Fm or SPI/Tiny RTC with alarm and 30s, 60s interrupt
	PCF85263A	I <sup>2</sup> C Fm/Tiny RTC with alarms, time stamp and battery backup +1-byte RAM 0.25 mm pitch WLCSP12 for cellular modem
	PCF85363A	I <sup>2</sup> C Fm/Tiny RTC with alarms, time stamp and battery back-up switch + 64-byte RAM
	PCF8523	I <sup>2</sup> C Fm+ ultra-low-power RTC with loss of main power detection and automatic battery backup
	PCF8563	I <sup>2</sup> C Fm low-power clock/calendar
	PCF8583	$^{12}\text{C}$ Sm Clock and calendar with 240 x 8-bit RAM and alarm
	PCF8593	I <sup>2</sup> C Sm Low power clock and calendar with alarm
Automotive high	+ PCA21125	SPI lower power RTC with alarm, timer and interrupt to 125 $^{\circ}\text{C}$
temperature	+ PCA85073A	$\rm I^2C$ Fm/Tiny RTC with alarm and 30s, 60s interrupt -40 $^{\circ}C$ to 105 $^{\circ}C$
	+ PCA8565	$\ensuremath{^{12}\text{C}}$ Fm high-temperature clock/calendar -40 °C to +125 °C
	+ PCA2131	I <sup>2</sup> C Fm or SPI high accuracy, low voltage 100 mA RTC with embedded crystal, time stamp, tamper pins -40 °C to 105 °C
Temperature compensated high accuracy with embedded crystal	PCF2131	$\rm I^2C~Fm$ or SPI high accuracy, low voltage 64 nA RTC time stamp, tamper pins -40 $^{\circ}C$ to 85 $^{\circ}C$

Muxes an	d <b>⇒</b> >	
Switches		
2-channel	+ PCA9540B	2-channel I <sup>2</sup> C Fm mux
	P3S0200GM	2:1 and 1:2 I3C 12.5 MHz mux with select pin
	PCA9542A	2-channel I <sup>2</sup> C Fm mux with INT
	PCA9543A	2-channel I <sup>2</sup> C Fm switch with INT and RST
2-to-1 demux	PCA9541A/01	2-to-1 I <sup>2</sup> C Fm demux with INT and RST (channel 0 default)
	PCA9541A/03	2-to-1 I <sup>2</sup> C Fm demux with INT and RST (no channel default)
4-channel	PCA9544A	4-channel I <sup>2</sup> C Fm mux with INT
	PCA9545A	4-channel I <sup>2</sup> C Fm switch with INT and RST
	PCA9546A	4-channel I <sup>2</sup> C Fm switch with RST
	PCA9646	4-channel I <sup>2</sup> C Fm+ no offset buffer/switch with RST
	PCA9846	4-channel ULV VLT I <sup>2</sup> C Fm+ switch with RST
	PCA9849	4-channel ULV VLT I <sup>2</sup> C Fm+ mux with RST
8-channel	PCA9547	8-channel I <sup>2</sup> C Fm mux with RST (channel 0 default)
	PCA9847	8-channel ULV VLT I <sup>2</sup> C Fm+ mux with RST
	PCA9548A	8-channel I <sup>2</sup> C Fm switch with RST
	PCA9848	8-channel ULV VLT I <sup>2</sup> C Fm+ switch with RST
Arbiter	PCA9641	2 controllers to shared target I <sup>2</sup> C Fm+ arbiter with INT and RST (no channels selected at default)

Load Swit	ch ——	
Load	NX3P2902BUK	500 mA / 3.6 V load switch
Switch	NX3P1108UK	1.5 A / 3.6 V load switch
	NX5P3363UK	3 A / 5 V source load switch
	NX20P5090UK	5 A / 20 V sink load switch
	NX30P6093UK	I <sup>2</sup> C-controlled OVP load switch

Bus Buffers	<u> </u>	
Incremental	PCA9510A	I <sup>2</sup> C Fm incremental offset hot-swap bus buffer (no RTA)
offset	PCA9511A	I <sup>2</sup> C Fm incremental offset hot-swap bus buffer
	PCA9512A	I <sup>2</sup> C Fm incremental offset VLT hot-swap bus buffer
	PCA9513A	$I^2C$ Fm incremental offset hot-swap bus buffer (92 $\mu A$ CS)
	PCA9514A	I <sup>2</sup> C Fm incremental offset hot-swap bus buffer (0.8 V offset)
Differential	PCA9614	I <sup>2</sup> C Fm+ VLT differential (4-wire) bus buffer
driver with static offset	PCA9615	I <sup>2</sup> C Fm+ VLT differential (4-wire) hot-swap bus buffer
(1 side)	PCA9616	$\rm I^2C\ Fm+\ 0.8\ V\ LV\ VLT\ differential\ (4-wire)\ hot-swap\ bus\ buffer\ with\ INT\ (2-wire)$
No offset	PCA9646	4-channel I <sup>2</sup> C Fm+ no offset buffer/switch with RST
Static offset	P82B96	I <sup>2</sup> C Fm HV bus buffer
(1 side)	PCA9507	I <sup>2</sup> C Fm VLT DDC buffer with accelerator
	PCA9508	I <sup>2</sup> C Fm VLT hot-swap bus repeater
	PCA9509	I <sup>2</sup> C Fm 1.0 V VLV VLT bus buffer with current source
	PCA9509P	I <sup>2</sup> C Fm 0.8 V ULV VLT bus buffer
	PCA9517A	I <sup>2</sup> C Fm 0.9 V ULV VLT bus repeater
	PCA9519	4-channel version of PCA9509
	PCA9527	I <sup>2</sup> C Fm DDC VLT buffer with accelerator and CEC
	PCA9600	I <sup>2</sup> C Fm+ HV bus buffer
	PCA9601	I <sup>2</sup> C Fm+ HV bus buffer with stronger 15 mA local side drive to support multiple Fm+ followers
	PCA9617A	I <sup>2</sup> C Fm+ 0.8 V ULV VLT bus repeater
Static offset	PCA9515A	I <sup>2</sup> C Fm bus repeater
(All sides)	PCA9516A	I <sup>2</sup> C Fm 5-channel hub
	PCA9518A	I <sup>2</sup> C Fm expandable 5-channel hub

Level Translators		
FET	NVT2001	1-bit I <sup>2</sup> C Fm+ VLT 1.0 V to 5.5 V
No Direction Pin	NVT2002	2-bit I <sup>2</sup> C Fm+ VLT 1.0 V to 5.5 V
	PCA9306	Dual I <sup>2</sup> C/SMBus Fm+ VLT 1.0 V to 5.5 V
	NVT2003	3-bit $I^2C$ Fm+ VLT for two power supplies in same bus application 1.0 V to 5.5 V
	NVT2006	6-bit I <sup>2</sup> C Fm+ VLT 1.0 V to 5.5 V
	NVT2008	8-bit I <sup>2</sup> C Fm+ VLT 1.0 V to 5.5 V
	NVT2010	10-bit I <sup>2</sup> C Fm+ VLT 1.0 V to 5.5 V
FET One Shot No Direction Pin	NTS0101	1-bit I <sup>2</sup> C Fm+ VLT 1.65 V to 3.6 V A side and 2.3 V to 5.5 V B side
	NTS0102	2-bit I <sup>2</sup> C Fm+ VLT 1.65 V to 3.6 V A side and 2.3 V to 5.5V B side
	P3A9606	Dual I3C 12.5 MHz and I <sup>2</sup> C/SMBus Fm+ VLT 0.72 V to 1.98 V
	P3S0200	Dual bidirectional I3C 12.5 MHz 1:2 and 2:1 switch and voltage level translator 0.72 V to 3.6 V
	NTS0104	4-bit I <sup>2</sup> C Fm+ VLT 1.65 V to 3.6 V A side and 2.3 V to 5.5 V B side
	NTS0302	2-bit improved smart one shot I $^2$ C Fm+ VLT 0.95 V to 3.6 V A side and 1.65 V to 5.5 V B side
	NTS0304E	4-bit improved smart one shot I <sup>2</sup> C Fm+ VLT 0.95 V to 3.6 V A side and 1.65 V to 5.5 V B side with IEC 61000-4-2 Class 4, 8 kV contact on B side
	NTS0308E	8-bit improved smart one shot $I^2C$ Fm+ VLT 0.95 V to 3.6 V A side and 1.65 V to 5.5V B side with IEC 61000-4-2 Class 4, 8 kV contact on B side
	NTSX0102	2-bit I <sup>2</sup> C Fm+ VLT 1.65 V to 5.5 V A side and 1.65 V to 5.5 V B side
Buffer One Shot No Direction Pin	NTB0101	1-bit SPI VLT 1.2 V to 3.6 V A side and 1.65 V to 5.5 V B side
	NTB0102	2-bit SPI VLT 1.2 V to 3.6 V A side and 1.65 V to 5.5 V B side
	NTB0104	4-bit SPI VLT 1.2 V to 3.6 V A side and 1.65 V to 5.5 V B side

Code	Description	Code	Description	Code	Description
Sm	100 kHz Standard-mode I <sup>2</sup> C-bus	ADC	Analog Digital Converter	INT	Interrupt
Fm	400 kHz Fast-mode I <sup>2</sup> C-bus	LV	Supply Voltage < 2.3 V	RST	Reset
Fm+	1 MHz Fast-mode Plus I <sup>2</sup> C-bus	VLV	Supply Voltage < 1.65 V	OE	Output enable
HSm	3.4 MHz High-speed Mode I <sup>2</sup> C-bus	ULV	Supply Voltage < 1.0 V	Latch	Input latch
+	AEC-Q100 Compliance	HV	Outputs >10 V	PU	Pull-up resistors
GPIO	General-purpose I/O Expander	VLT	Voltage Level Translator — 2 Supplies	PU/PD	Pull-up/pull-down resistors
TS	Thermal Sensor	TP	Totem-pole (push-pull)	COG	Chip on glass
RTC	Real-time Clock	QB	Quasi-bidirectional	SPI	Serial peripheral interface
LCD	Liquid Crystal Display	OD	Open Drain	SPMI	System power management interface
DAC	Digital Analog Converter	CC	Constant current	P3A, P3T, P3S	3 indicates I3C Bus capable

LCD Drivers	8	
Segment driver	+ PCA8561A/B	I <sup>2</sup> C Fm or SPI 72-segment low-power LCD driver in HVQFN32 package
	+ PCA/ PCF85162	I <sup>2</sup> C Fm 128-segment LCD driver in TSSOP48 package
	+ PCA85262	I <sup>2</sup> C Fm 128-segment LCD driver with higher frame frequency in TSSOP48 package
	+ PCA/ PCF8551A/B	I <sup>2</sup> C Fm or SPI 144-segment low-power LCD driver with programmable frame frequency in TSSOP48 package
	+ PCA/PCE/ PCF85176	$\rm I^2C~Fm~160$ -segment LCD driver in TSSOP56 or TQFP64 package
	+ PCA85276	I <sup>2</sup> C Fm 160-segment LCD driver with higher frame frequency in TSSOP56 package
	+ PCA/ PCF8553A/B	I <sup>2</sup> C Fm or SPI 160-segment low-power LCD driver with programmable frame frequency in TSSOP56 package
	+ PCA8546A/B	I <sup>2</sup> C Fm or SPI 176-segment LCD driver with programmable frame frequency in TSSOP56 package
	+ PCA8547A/B	I <sup>2</sup> C Fm or SPI 176-segment LCD driver with programmable frame frequency, charge pump, VLCD temperature compensation in TQFP64 package
	+ PCA/ PCF85134	I <sup>2</sup> C Fm 240-segment LCD driver in LQFP80 package
	PCF8545A/B	I <sup>2</sup> C Fm orSPI 320-segment LCD driver with programmable frame frequency in TSSOP56 package
	+ PCA/ PCF8536A/B	I <sup>2</sup> C Fm or SPI 320-segment LCD driver with programmable frame frequency and LED backlight PWM control in TSSOP56 package
	+ PCA/ PCF8537A/B	I <sup>2</sup> C Fm or SPI 352-segment LCD driver with programmableframe frequency, charge pump, VLCD temperature compensation in TQFP64 package
	+ PCA9620	I <sup>2</sup> C Fm 480-segment LCD driver with programmable frame frequency, charge pump, VLCD temperature compensation in LQFP80 package
	+ PCA/ PCF8576D/E	I <sup>2</sup> C Fm 160-segment COG LCD driver
	+ PCA8576F	$\ensuremath{^{12}\text{C}}$ Fm 160-segment COG LCD driver with higher frame frequency and higher VLCD
	+ PCA/PCE/ PCF85133	I <sup>2</sup> C Fm 320-segment COG LCD driver with selectable frame frequency
	+ PCA85233	I <sup>2</sup> C Fm 320-segment COG LCD driver with higher selectable frame frequency
	+ PCA85232	I <sup>2</sup> C Fm 640-segment COG LCD driver with higher programmable frame frequency
Character drivers	PCF2119	I <sup>2</sup> C Fm or parallel bus 2 x 16 characters + 160-icon COG LCD driver with charge pump,VLCD temperature compensation
Graphic driver	PCF8531	I <sup>2</sup> C Fm 34 x 128-pixel COG LCD driver with charge pump, VLCD temperature compensation
High Spee	ed 🗖 🖎	
CC Logic/ PD Phy	PTN5150	USB Type-C Rev 1.1 CC-Logic, Pin to control NXP redriver
	PTN5110	USB Type-C Rev 3.0 PD PHY, TCPC Rev 2.0 version 1.0. Laptop/tablet applications
Redrivers	PTN36502	USB and DP Combo Redriver, SuperSpeed USB 3.1 Gen1, DP V 1.2

Multi-protocol USB4 20 Gbps linear redriver

Multi-channel PCIe 4.0 linear equalizer

Multi-protocol USB3.2 and DisplayPort linear redriver

USB Type-C High performance Crossbar Switch IC Enhanced performance HDMI/DVI level shifter with active DDC buffer, supporting 3 Gbi t/s operation

HDMI/DVI level shifter with dongle detect support and active DDC buffer

Enhanced performance HDMI DVI level shifter with active DDC buffer, supporting 1.65 Gbit/s operation

Low power HDMI/DVI level shifter with active DDC buffer, supporting 3.4 Gbit/s operation

Enhanced performance HDMI/DVI level shifter with active DDC buffer, supporting 3 Gbit/s operation

PTN38007

PTN38003A

PTN3944

PTN3360

PTN3361B

PTN3361C

PTN3363

PTN3365

PTN3366 PTN3381

CBTL08GP053

Mux

DP++ Level Shifter

A/D-D/A Converters	<b>%</b>	
8-bit ADC	PCF8591	I <sup>2</sup> C Fm 4-channel ADC and 1-channel DAC
DIP -	1,11	
2-kbit EE	PCA9500 PCA9501	8-bit I <sup>2</sup> C Fm QB GPIO with PU and 2-K EEPROM 8-bit I <sup>2</sup> C Fm QB GPIO with INT, PU and 2-K EEPROM
DIP switch	PCA8550 PCA9559 PCA9560	I <sup>2</sup> C Fm 4-bit 1-of-2 mux and 5-bit EEPROM I <sup>2</sup> C Fm 5-bit mux/1-bit latch and 6-bit EEPROM I <sup>2</sup> C Fm 2 x 5-bit mux/1-bit latch and 6-bit EEPROM
Bridge and Bus Controll	PCA9561	I <sup>2</sup> C Fm 4 x 6-bit mux and 6-bit EEPROM
Bridge	+ SC16IS740 SC16IS741A	I <sup>2</sup> C Fm/SPI-to-UART bridge with IrDA I <sup>2</sup> C Fm/SPI-to-UART bridge with IrDA
	SC16IS750 SC16IS752	I <sup>2</sup> C Fm/SPI-to-UART bridge with IrDA and GPIO I <sup>2</sup> C Fm/SPI-to-DUART bridge with IrDA and GPIO
	SC16IS760 SC16IS762	I <sup>2</sup> C Fm/SPI-to-UART bridge with IrDA and GPIO I <sup>2</sup> C Fm/SPI-to-DUART bridge with IrDA and GPIO

	PCA9665A	I <sup>2</sup> C Fm+ bus controller with 68-byte buffer and restart condition fix
Level Transceivers		
GTL to LVTTL	GTL2012	2-bit LVTTL to GTL transceiver
Translators with Direction Pin	GTL2014	4-bit LVTTL to GTL transceiver
Birection Fin	GTL2018	8-bit LVTTL to GTL transceiver
	GTL2034	4-bit GTL to GTL buffer

I<sup>2</sup>C Fm bus controller

SC18IM704

SC18IS604

SC18IS606

PCF8584 PCA9564

Controller

UART-to-I<sup>2</sup>C Fm controller bridge with GPIO

(Replacement for SCI18IM700) SPI-to-I<sup>2</sup>C Fm controller bridge with GPIO

(Replacement for SC18IS600) I<sup>2</sup>C Fm target-to-SPI controller bridge

(Replacement for SC18IS602B)  $\ensuremath{^{12}\text{C}}$  Sm bus controller with bus snoop

Level Translator		
SIM Card	NVT4555	SIM card VLT level translator and LDO
Translator	NVT4557	SIM card VLT level translator for 1.8 V node
	NVT4558	SIM card VLT level translator for 1.2 V and 1.8 V node
SD Card Translator	NVT4857	SD 3.0 - SDR104 auto-direction control memory card level translator and LDO — also support SIM card for combo socket
	NVT4858	SD 3.0 — SDR104 auto-direction control memory card level translator for both 1.2 V and 1.8 V node — also supports SIM card for combo socket
eUSB2 Repeater and Level Shifter	PTN3222	1-port eUSB2 to USB2 redriver functionality

Low power HDMI/DVI level shifter with active DDC buffer, supporting 3 Gbit/s operation (DOD) Enhanced performance HDMI/DVI level shifter with voltage regulator, dongle detect support and active DDC buffer 9 www.nxp.com

## **DEMO BOARD**

Bridges	OM6270	SC16IS750_760 SPI_I <sup>2</sup> C-UART EV
	OM6273	SC16IS752_762 SPI_I <sup>2</sup> C-UART EV
	SC18IS604-EVB	SPI-to-I <sup>2</sup> C Fm controller bridge Eval Board
	SC18IS606-EVB	I <sup>2</sup> C Fm target-to-SPI controller bridge Eval Board
	SC18IM704-EVB	UART-to-I <sup>2</sup> C Fm controller bridge Eval Board
LCD display	OM13506	PCF8553 LCD Demo
RTC	OM11059	PCF85063B RTC Eval - SPI
	OM11059A	PCF85063A RTC Eval - 1 <sup>2</sup> C
	OM13510	PCF85263 RTC Eval
	OM13511	PCF8523 RTC Eval
	OM13512	PCF2123 SPI-bus RTC Eval
	OM13514	PCF85363 RTC Eval
	OM13515	PCF85063A RTC Eval
	OM13517	PCA21125 RTC Eval 9 pin
	OM13519	PCA8565 RTC Eval
Voltage-	OM13315	NVT2001GM VLT Eval
Level Translator	OM13317	NVT2008PW VLT Eval
	OM13318	NVT2002DP VLT Eval
	OM13319	NVT2003DP VLT Eval
	OM13323	NVT2006PW VLT Eval
	OM13324	NVT2010PW VLT Eval
	OM13480	NVT4555UK SIM Card Eval
	OM13543	NTS0304EPW VLT Test
	NVT4858-4557- EVB	NVT4858 SD and NVT4557 SIM Card Eval
	P3A9606JK-EVB	P3A9606JK VLT Eval



OM13318 NVT2002DP LED Demo Board



PCA9956A 24, Non-Isolated Output LED Driver Demo Board

LED driver	OM13269	PCA9632 LED Eval
	OM13321	PCA9956B LED Eval Fm_Plus
	OM13327	PCA9634 LED Eval
	OM13329	PCA9952 LED Eval 2005-1
	OM13330	PCA9955 LED EVB - 2005-1
	OM13332	PCA9685 demo board, 16-channel voltage source with 12-bit PWM demo board $\rm l^2C\ Fm+$
	OM13333	PCA9635 LED Eval
	OM13483	PCA9955B LED Eval
	OM13524	PCA9745B LED SPI Eval
	OM13528	PCA9532BS LED Eval
	OMPCA9957- LEDEV	PCA9957 LED Eval Socket — MCU
	OMPCA9959- LEDEV	PCA9959 LED Eval Socket — MCU
Universal	OM13491	Panel A-VSSOP_XQFN_HWSON_MSOP8
	OM13492	Panel B — 6_8_10 pin pkgs
	OM13493	Panel C — DHVQFN 24_20_16_14
	OM13494	Panel D — HVQFN 14_16_20_24
	OM13495	Panel E — TSSOP 14_16_20_24
	OM13496	Panel F — Surface Mount-DIP EV
	OM13497	Panel G — HTSSOP28_VFBGA XFBGA24
Temperature Sensors	OM13257	Universal TS DC Fm_Plus
Bus Buffers	OM13523	PCA9616PW dl <sup>2</sup> C Buffer Eval
GPIO	OM13488	Universal 8-bit GPIO DC — Fm
	OM13489	Universal 16-bit GPIO DC — Fm
	OM13526	PCAL6524 GPIO Eval
	OM13529	PCAL6524EV GPIO Eval Fm_Plus
	OM13541	PCAL6534EV GPIO Eval
Arduino	PCF85063AT-ARD	Industry Standard RTC
Board	PCT2075DP-ARD	Temp Sensor
	PCA9957HN-ARD	24-channel LED controller
	PCA9959HN-ARD	24-channel LED controller with 64-grid
	PCF85063TP-ARD	RTC
	IMX8MMINI-IARD	Interposer Board for i.MX8 EVB
	NTS0304EUK-ARD	4cch Voltage Level Translator
	PCAL6534EV-ARD	34-bit GPIO
	PCAL6524EV-ARD	24-bit GPIO
	PCF85263ATL-ARD	Full Function RTC
	PCA9955BTW-ARD	16 ch LED Controller
	PCA8561AHN-ARD	LCD Display
	PCAL6408A-ARD	8-bit GPIO
	PCAL6416AEV-ARD	16-bit GPIO
	PCA9617ADP-ARD	I <sup>2</sup> C Bus Buffer
	PCA9846PW-ARD	I <sup>2</sup> C Low Voltage Switch
	PCT2131-ARD	Low Power Temperature Compensated RTC
	PCF85053ATK-ARD	Dual Controller RTC with RAM
	P3T1085UK-ARD	Temp Sensor - 6 pin 0.5 °C accuracy
	P3T1755DP-ARD	Temp Sensor - 8 pin 0.5 °C accuracy



OM13512 PCF2123 SPI-bus RTC Demo Board



OM13257 Temp Sensor Daughter Card



OM13514 PCF85363A I<sup>2</sup>C-bus RTC PCF85263/363 Interface



OM13489 Universal 16-bit GPIO Daughter Card



OM13528 PCA9532BS 16-CH LED Demo Board



OM13515 PCF85063A RTC Timing Demo Board

Our I<sup>2</sup>C-bus website (www.nxp.com/i2c), SPI website (www.nxp.com/SPI) and I3C-bus website (www.nxp.com/i3c) are a valuable resource for device information and training programs. It gives you direct access to a comprehensive handbook, application notes, information about evaluation kits and training materials, links to application and design support and more. The development boards and daughter card make it easy to program new peripherals and are a quick way to learn about the I<sup>2</sup>C-bus and I3C-bus protocol.

Samples and demo boards are available on request; contact a local NXP distributor.

