

# System management I<sup>2</sup>C selector guide 2016

A broad catalog of interface components for all your design needs

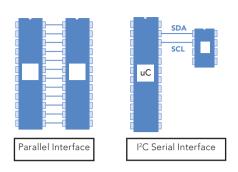


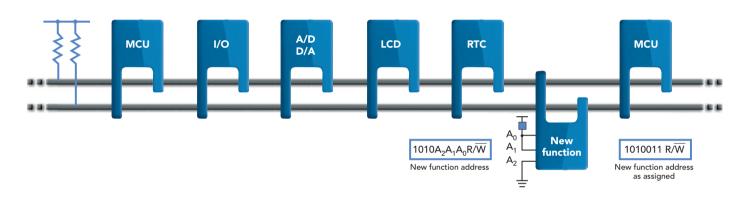
## I<sup>2</sup>C-bus: The serial revolution

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

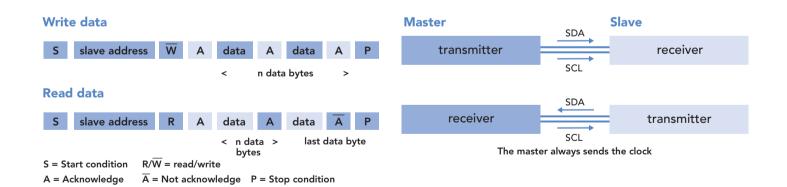
Invented by NXP (Philips) more than 30 years ago, the I<sup>2</sup>C-bus uses a simple two-wire format to carry data one bit at a time. It performs inter-chip addressing, selection, control, and data transfer. Speeds are up to 400 kHz (Fast-mode), 1 MHz (Fast-mode Plus), 3.4 MHz (High Speed-mode), or 5 MHz (Ultra Fast-mode).

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

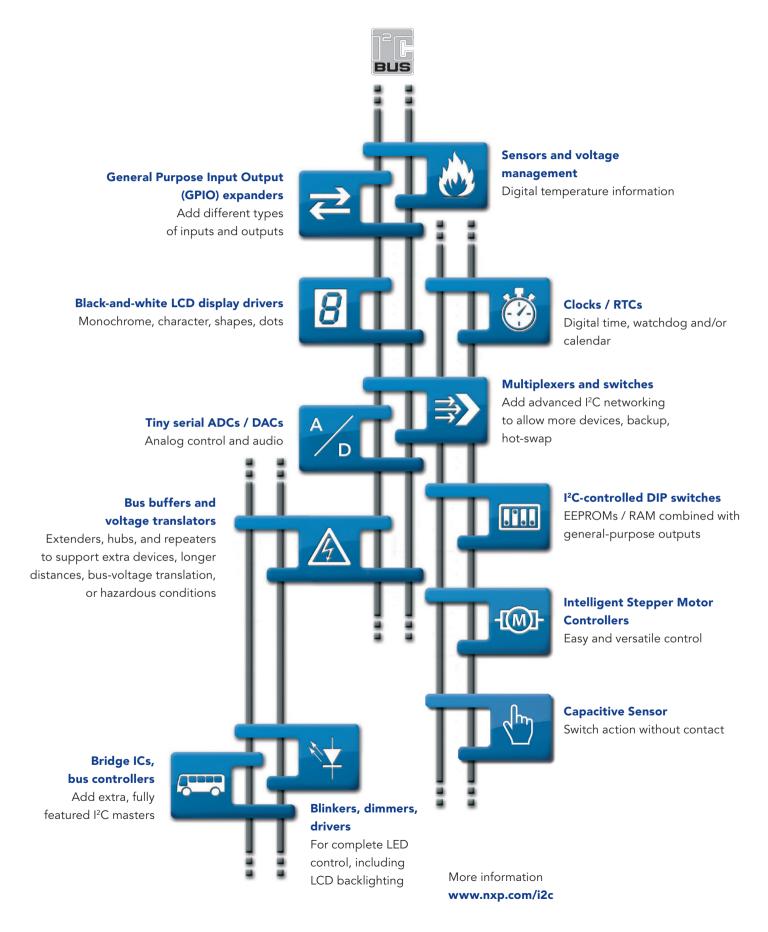




I<sup>2</sup>C-bus devices are available in a wide range of functions. Each slave device has its own I<sup>2</sup>C-bus address, selectable using address pins set high (1) or low (0). Information is transmitted byte by byte, and each byte is acknowledged by the receiver. There can be multiple devices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



## NXP's I<sup>2</sup>C peripherals portfolio is grouped into twelve families, one for each of the most common, everyday design concerns.



# I<sup>2</sup>C-bus product summary

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 LV 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 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 PCA9702 16-bit SPI 18V GPI with INT PCA9704 16-bit SPI 18V GPI with Maskable INT 24-bit PCA6524 24-bit ULV GPIO with Agile I/O Plus Features PCA9505 40-bit I <sup>2</sup> C Fm TP GPIO with INT, RST, OE and PU			
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PCR8574A			
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PCA6408A 8-bit PC Fm LV VLT TP 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 PCA9554A 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 PCA9554B 8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9554C 8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9554C 8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCA9554B) PCA9557 8-bit PC Fm TV 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 PCA9573 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 LO B GPIO with INT, RST and PU PCA9672 8-bit PC Fm + OB GPIO with INT and PU PCA9673 8-bit PC Fm + OB GPIO with INT and PU PCA9674A 8-bit PC Fm + OB GPIO with INT and PU PCA9675 16-bit PC Fm CD GPIO with INT and PU PCA9575 16-bit PC Fm OD GPIO with INT and PU PCA9575 16-bit PC Fm OD GPIO with INT and PU PCF8575 16-bit PC Fm OD GPIO with INT and PU PCF8575 16-bit PC Fm OD GPIO with INT PCA9533 16-bit PC Fm UV TP GPIO with INT PCA9533 16-bit PC Fm UV TP GPIO with INT PCA9533 16-bit PC Fm LV TP GPIO with INT PCA9533 16-bit PC Fm LV TP GPIO with INT PCA9533 16-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD PCA9533 16-bit PC Fm LV TP/OD GPIO with INT, and RST PCA9533 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9535 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9535 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9535 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9535 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9535 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9535 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9535 16-bit PC Fm		PCA9538A	8-bit I <sup>2</sup> C Fm LV TP GPIO with INT and RST
PCAL6408A  8-bit PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD  PCA9554A  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/OD GPIO with INT, latch and PU/PD (PU default)  PCA9554C  8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default)  PCA9554C  8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default)  PCA9554C  8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default)  PCA9557  8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default)  PCA9571  8-bit PC Fm LV VT GPIO  PCA9574  8-bit PC Fm LV VT TP/OD GPIO with INT, RST, latch and PU/PD  PCA9670  8-bit PC Fm LO VT TP/OD GPIO with INT, RST, latch and PU/PD  PCA9674  8-bit PC Fm LO B GPIO with INT, RST and PU  PCA9674  8-bit PC Fm LO B GPIO with INT and PU  PCA9674  8-bit PC Fm LO B GPIO with INT and PU  PCA9674  8-bit PC Fm QB GPIO with INT  PCA9703  8-bit SPI 18V GPI with INT  PCA9703  8-bit SPI 18V GPI with INT  PCA9535  16-bit PC Fm QB GPIO with INT and PU  PCF8575  16-bit PC Fm QB GPIO with INT  PCA9535A  16-bit PC Fm DO GPIO with INT  PCA9535A  16-bit PC Fm LV TP/OD GPIO with INT  PCA9539A  16-bit PC Fm LV TP/OD GPIO with INT  PCA9539A  16-bit PC Fm LV TP/OD GPIO with INT  PCA9539A  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, RST, latch and PU/PD  PCA9535A  16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD  PCA9535A  16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD  PCA9535A  16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD  PCA9535A  16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD  PCA9535A  16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD  PCA9535A  16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD  PCA9535A  16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD  PCA9535A  16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD  PCA9535A  16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD		PCAL9538A	8-bit I <sup>2</sup> C Fm LV TP/OD 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 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 PCA9554C 8-bit PC Fm LV TP GPIO with INT, latch and PU/PD (PU default) (alternate address for PCA9554B) PCA9554C 8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCA9554B) 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 LT TP/OD GPIO with INT, RST, latch and PU/PD PCA9574 8-bit PC Fm LV LT TP/OD GPIO with INT, RST, latch and PU/PD PCA9670 8-bit PC Fm LV LT TP/OD GPIO with INT, RST, latch and PU/PD PCA9672 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 PC Fm + QB GPIO with INT and PU PCA9674 8-bit PC Fm + QB GPIO with INT and PU PCA9675 16-bit PC Fm DB GPIO with INT and PU PCA9575 16-bit PC Fm DB GPIO with INT and PU PCA9575 16-bit PC Fm DB GPIO with INT and PU PCA9575 16-bit PC Fm DB GPIO with INT And PU PCA9535 16-bit PC Fm TP GPIO with INT PCA9535 16-bit PC Fm TP GPIO with INT PCA9535A 16-bit PC Fm TP GPIO with INT PCA9535A 16-bit PC Fm TP GPIO with INT PCA9539A 16-bit PC Fm TP GPIO with INT And RST PCA9539A 16-bit PC Fm TP GPIO with INT And RST PCA9539A 16-bit PC Fm TP GPIO with INT And RST PCA9539A 16-bit PC Fm TP GPIO with INT And RST PCA9539A 16-bit PC Fm TP GPIO with INT And RST PCA9539A 16-bit PC Fm TP GPIO with INT And RST PCA9539A 16-bit PC Fm TP GPIO with INT And RST PCA9539A 16-bit PC Fm TP GPIO with INT And RST PCA9539A 16-bit PC Fm TP GPIO with INT And RST PCA9539A 16-bit PC Fm TP GPIO with INT And RST PCA9539A 16-bit PC Fm TP GPIO with INT And PU PCA9673 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit PC Fm LV TP OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit PC Fm LV TP OD GPIO with INT, RST, latch and PU/PD PCA9673		PCA6408A	
PCA9554 8-bit PC Fm TP GPIO with INT and PU PCA9554A 8-bit PC Fm TP GPIO with INT and PU (alternate address for PCA9554) PCA9554B 8-bit PC Fm IV TP GPIO with INT and PU PCA9554B 8-bit PC Fm IV TP GPIO with INT and PU PCA9554C 8-bit PC Fm IV TP GPIO with INT and PU (alternate address for PCA9554B) PCA9554C 8-bit PC Fm IV TP GPIO with INT, latch and PU/PD (PU default) (alternate address for PCA9554B) PCA9557 8-bit PC Fm IV TP GPIO with INT, latch and PU/PD (PU default) (alternate address for PCA19554B) PCA9557 8-bit PC Fm IV TP GPIO with INT, latch and PU/PD (PU default) (alternate address for PCA19554B) PCA9571 8-bit PC Fm TP GPIO with RST PCA9571 8-bit PC Fm LV TP GPIO with INT, RST, latch and PU/PD PCA9670 8-bit PC Fm LV DB GPIO with INT, RST, latch and PU/PD PCA9670 8-bit PC Fm+ OB GPIO with INT, RST and PU PCA9674 8-bit PC Fm+ OB GPIO with INT and PU PCA9674 8-bit PC Fm+ OB GPIO with INT and PU (Alternate address) PCA9701 8-bit SPI 18V GPI with INT PCA9703 8-bit SPI 18V GPI with INT PCA9703 8-bit SPI 18V GPI with INT and PU PCF8575 16-bit PC Fm OB GPIO with INT and PU PCF8575 16-bit PC Fm OB GPIO with INT PCA9535 16-bit PC Fm OB GPIO with INT PCA9535 16-bit PC Fm TP GPIO with INT PCA9535 16-bit PC Fm TP GPIO with INT PCA9535A 16-bit PC Fm TP GPIO with INT PCA9539A 16-bit PC Fm TP GPIO with INT and RST PCA9539A 16-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD 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 PCA9539A 16-bit PC Fm LV TP GPIO with INT and PU PCA9535 16-bit PC Fm LV TP GPIO with INT and PU PCA9555 16-bit PC Fm LV TP GPIO with INT and PU PCA9673 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 PCA9671 16-bit PC Fm LV TP 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 LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 1		PCAL6408A	
PCA9554B 8-bit PC Fm LV TP CPIO with INT and PU PCAL9554B 8-bit PC Fm LV TP CPIO with INT, latch and PU/PD (PU default) PCA9554C 8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9554C 8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCA9554B) PCAL9554C 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 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 LV VLT TP/OD GPIO with INT, RST, latch and PU/PD 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 DB GPIO with INT and PU PCA9701 8-bit SPI 18V GPI with maskable INT PCA9703 8-bit SPI 18V GPI with maskable INT PCA9703 16-bit PC Fm QB GPIO with INT and PU PCR575 16-bit PC Fm QB GPIO with INT and PU PCA9535 16-bit PC Fm DB GPIO with INT PCA9535A 16-bit PC Fm DB GPIO with INT PCA9535A 16-bit PC Fm LV TP/OD GPIO with INT PCA9535A 16-bit PC Fm LV TP/OD GPIO with INT PCA9539R 16-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD 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, RST, latch and PU/PD PCA9535A 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9535A 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9535A 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555A 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555A 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555A 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit PC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit PC Fm LV		PCA9554	
Residence   Resi			8-bit I <sup>2</sup> C Fm TP GPIO with INT and PU
PCAL9554B 8-bit PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default)  PCA9554C 8-bit PC Fm LV TP GPIO with INT and PU (alternate address for PCA9554B)  PCAL9554C 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 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+ OB GPIO with INT, RST and PU  PCA9674 8-bit PC Fm+ OB GPIO with INT and PU (Alternate address)  PCA9701 8-bit PC Fm+ OB GPIO with INT and PU (Alternate address)  PCA9703 8-bit SPI 18V GPI with INT  PCA9703 8-bit SPI 18V GPI with INT  PCA9535 16-bit PC Fm OB GPIO with INT and PU  PCR8575 16-bit PC Fm OB GPIO with INT and PU  PCR8575 16-bit PC Fm OB GPIO with INT  PCA9535A 16-bit PC Fm DD GPIO with INT  PCA9535A 16-bit PC Fm LV TP GPIO with INT  PCA95399 16-bit PC Fm TP GPIO with INT  PCA95399 16-bit PC Fm TP GPIO with INT and RST  PCA95399 16-bit PC Fm LV TP OPIO with INT and RST  PCA95390 16-bit PC Fm LV TP OPIO with INT and RST  PCA95391 16-bit PC Fm LV TP OPIO with INT and RST  PCA9535A 16-bit PC Fm LV TP OPIO with INT and RST  PCA95391 16-bit PC Fm LV TP OPIO with INT and RST  PCA95391 16-bit PC Fm LV TP OPIO with INT and RST  PCA9535A 16-bit PC Fm LV TP OPIO with INT and RST  PCA9535A 16-bit PC Fm LV TP OPIO with INT and RST  PCA9535A 16-bit PC Fm LV TP OPIO with INT and RST  PCA9535A 16-bit PC Fm LV TP OPIO with INT and RST  PCA9535A 16-bit PC Fm LV TP OPIO with INT and RST  PCA9535A 16-bit PC Fm LV TP OPIO with INT, RST, latch and PU/PD  PCA9535A 16-bit PC Fm LV TP OPIO with INT, RST, latch and PU/PD  PCA9535A 16-bit PC Fm LV PT OPIO with INT, RST, latch and PU/PD  PCA9535A 16-bit PC Fm LV PT OPIO with INT, RST, latch and PU/PD  PCA9671 16-bit PC Fm LV PT OPIO with INT, RST and PU  PCA9675 16-bit PC Fm LV PT OPIO with INT, RST and PU  PCA9675 16-bit PC Fm LV PT OPIO with INT And	8-bit		·
PCAL554B default)  PCA9554C		PCA9554B	
PCA9554C (alternate address for PCA9554B)  PCAL9554C default) (alternate address for PCAL9554B)  PCA9557 default) (alternate address for PCAL9554B)  PCA9571 8-bit PC Fm IV TP/OD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCAL9554B)  PCA9571 8-bit PC Fm IV 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 + OB GPIO with INT, RST and PU  PCA9674 8-bit PC Fm + OB GPIO with INT and PU  PCA9674A 8-bit PC Fm + OB GPIO with INT and PU (Alternate address)  PCA9701 8-bit SPI 18V GPI with INT  PCA9703 8-bit SPI 18V GPI with maskable INT  PCA9703 8-bit SPI 18V GPI with maskable INT  PCA9535 16-bit PC Fm OB GPIO with INT and PU  PCF8575 16-bit PC Fm OB 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  PCA9535 16-bit PC Fm IV TP OPIO with INT  PCA9535 16-bit PC Fm IV TP OPIO with INT  PCA9539A 16-bit PC Fm IV TP OPIO with INT and RST  PCA9539A 16-bit PC Fm IV TP GPIO with INT and RST  PCA9539A 16-bit PC Fm IV TP OPIO with INT and RST  PCA49539A 16-bit PC Fm IV TP OPIO with INT and RST  PCA49539A 16-bit PC Fm IV TP OPIO with INT and RST  PCA49539A 16-bit PC Fm IV TP OPIO with INT and RST  PCA49539A 16-bit PC Fm IV TP OPIO with INT and RST  PCA49535A 16-bit PC Fm IV TP OPIO with INT and PU  PCA9555 16-bit PC Fm IV TP OPIO with INT and PU  PCA9555 16-bit PC Fm IV TP OPIO with INT and PU  PCA9555 16-bit PC Fm IV TP OPIO with INT and PU  PCA9671 16-bit PC Fm IV TP OPIO with INT and PU  PCA9673 16-bit PC Fm IV TP OPIO with INT, RST, latch and PU/PD  PCA9671 16-bit PC Fm IV TP OPIO with INT, RST and PU  PCA9670 16-bit PC Fm QB GPIO with INT And PU  PCA9671 16-bit PC Fm QB GPIO with INT And PU  PCA9672 16-bit PC Fm PQB GPIO with INT And PU  PCA9673 16-bit PC Fm PQB GPIO with INT And PU  PCA9674 16-bit PC Fm PQB GPIO with INT And PU  PCA9675 16-bit PC Fm PQB GPIO with INT And PU  PCA9675 16-bit PC Fm PQB GPIO with INT And PU  PCA9675 16-bit PC		PCAL9554B	default)
PCAL9557   default) (alternate address for PCAL9554B)     PCA9557   8-bit IPC Fm TP GPIO with RST     PCA9571   8-bit IPC Fm TP GPIO with RST     PCA9574   8-bit IPC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD     PCA9670   8-bit IPC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD     PCA9672   8-bit IPC Fm + QB GPIO with INT, RST and PU     PCA9674   8-bit IPC Fm + QB GPIO with INT and PU     PCA9674   8-bit IPC Fm + QB GPIO with INT and PU     PCA9674   8-bit IPC Fm + QB GPIO with INT and PU     PCA9674   8-bit IPC Fm + QB GPIO with INT and PU     PCA9701   8-bit SPI 18V GPI with maskable INT     PCA9703   8-bit SPI 18V GPI with maskable INT     PCA9535   16-bit IPC Fm QB GPIO with INT and PU     PCR8575   16-bit IPC Fm QB GPIO with INT and PU     PCR8575   16-bit IPC Fm QD 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 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 LV TP GPIO with INT and RST     PCA9539A   16-bit IPC Fm LV TP GPIO with INT and RST     PCA9539A   16-bit IPC Fm LV TP GPIO with INT and RST     PCA9539A   16-bit IPC Fm LV TP GPIO with INT and RST     PCA9535A   16-bit IPC Fm LV TP GPIO with INT and RST     PCA9555A   16-bit IPC Fm LV VLT TP GPIO with INT, RST, latch and PU/PD     PCA9555   16-bit IPC Fm LV TP GPIO with INT and PU     PCA9555A   16-bit IPC Fm LV TP GPIO with INT and PU     PCA9575   16-bit IPC Fm LV TP GPIO with INT, RST, latch and PU/PD     PCA9671   16-bit IPC Fm LV SPIO GPIO with INT, RST, latch and PU/PD     PCA9673   16-bit IPC Fm LV SPIO GPIO with INT, RST, latch and PU/PD     PCA9671   16-bit IPC Fm LV SPIO GPIO with INT, RST, latch and PU/PD     PCA9672   16-bit IPC Fm LV SPIO GPIO with INT, RST, latch and PU/PD     PCA9674   16-bit IPC Fm LV GPIO with INT, RST, OE and PU     PCA96524   24-bit ULV GPIO with Agile I/O Plus Features     PCA9505   40-bit IPC Fm TP GPIO with		PCA9554C	(alternate address for PCA9554B)
PCA9571         8-bit 1 MHz LV TP GPO           PCA9574         8-bit IPC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD           PCA9670         8-bit IPC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD           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           PCA9701         8-bit SPI 18V GPI with INT and PU           PCA9703         8-bit SPI 18V GPI with maskable INT           PCA9704         8-bit IPC Fm QB GPIO with INT and PU           PCA9705         16-bit IPC Fm QB GPIO with INT and PU           PCA9575         16-bit IPC Fm QB GPIO with INT           PCA9535         16-bit IPC Fm QB GPIO with INT           PCA9535         16-bit IPC Fm QB GPIO with INT           PCA9535         16-bit IPC Fm LV TP/OD GPIO with INT           PCA9535         16-bit IPC Fm LV TP GPIO with INT           PCA9535         16-bit IPC Fm LV TP/OD GPIO with INT           PCA9535         16-bit IPC Fm LV TP/OD GPIO with INT and RST           PCA9539A         16-bit IPC Fm LV TP GPIO with INT and RST (state machine only)           PCA9539A         16-bit IPC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD           PCA9616A         16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST, latch a			default) (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  PCA9674  8-bit I <sup>2</sup> C Fm+ QB GPIO with INT, RST and PU  PCA9674A  8-bit I <sup>2</sup> C Fm+ QB GPIO with INT and PU  PCA9674A  8-bit SPI 18V GPI with INT  PCA9703  8-bit SPI 18V GPI with INT  PCA9703  8-bit SPI 18V GPI with INT  PCA9575  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  PCA9535  16-bit I <sup>2</sup> C Fm DG GPIO with INT  PCA9535  16-bit I <sup>2</sup> C Fm DG GPIO with INT  PCA9535  16-bit I <sup>2</sup> C Fm DG GPIO with INT  PCA9535A  16-bit I <sup>2</sup> C Fm DG GPIO with INT  PCA9535A  16-bit I <sup>2</sup> C Fm DG GPIO with INT  PCA9535A  16-bit I <sup>2</sup> C Fm DG GPIO with INT  PCA9539A  16-bit I <sup>2</sup> C Fm TP GPIO with INT and RST  PCA9539A  16-bit I <sup>2</sup> C Fm TP GPIO with INT and RST  PCA9539A  16-bit I <sup>2</sup> C Fm TP GPIO with INT and RST  PCA9539A  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 AND RST  PCA9539A  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 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 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  PCA9575  16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD  PCA9673  16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD  PCA9673  16-bit I <sup>2</sup> C Fm LV 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  PCA9670  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  PCA9675  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  PCA9675  16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD  PCA9675  16-bi			
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 (Alternate address) PCA9701 8-bit SPI 18V GPI with INT PCA9703 8-bit SPI 18V GPI with INT PCA9703 8-bit SPI 18V GPI with maskable INT PCA9703 8-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 and PU 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 PCA9535 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 TP GPIO with INT and RST PCA95399 16-bit I <sup>2</sup> C Fm TP GPIO with INT and RST PCA9539A 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 and RST PCAL9539A 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 PCA9555 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 TP GPIO with INT and PU PCA9555A 16-bit I <sup>2</sup> C Fm LV TP GPIO with INT and PU 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 TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9670 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 TP/OD GPIO with INT, RST, and PU PCA9673 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9670 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9670 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9670 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9670 16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST and PU PCA9702 16-bit SPI 18V GPI with maskable INT  24-bit PCA9505 40-bit I <sup>2</sup> C Fm TP GPIO with INT, RST, OE and PU			8-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch
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 SPI 18V GPI with INT and PU (Alternate address) PCA9701 8-bit SPI 18V GPI with maskable INT PCA9703 8-bit SPI 18V GPI with maskable INT PCA8575 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 LV TP GPIO with INT and RST PCA9539A 16-bit IPC Fm LV TP GPIO with INT and RST PCA9539A 16-bit IPC Fm LV TP GPIO with INT and RST PCAL9539A 16-bit IPC Fm LV TP GPIO with INT and RST PCAL6416A 16-bit IPC Fm LV VLT TP GPIO with INT, RST, latch and PU/PD PCA9555 16-bit IPC Fm LV VLT TP GPIO with INT and RST PCAL6416A 16-bit IPC Fm LV VLT TP 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 PCA9575 16-bit IPC Fm LV TP GPIO with INT and PU PCA9671 16-bit IPC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit IPC Fm LV VLT 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 PCA9673 16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9702 16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST and PU PCA9704 16-bit IPC Fm LQ GPIO with INT and PU PCA9704 16-bit IPC Fm LQ GPIO with INT PCA9704 16-bit IPC Fm LQ GPIO with INT PCA9505 40-bit IPC Fm LQ GPIO with INT, RST, OE and PU		PC A 9 6 7 0	
PCA9674  8-bit IPC Fm+ QB GPIO with INT and PU PCA9674A  8-bit SPI 18V GPI with INT PCA9703  8-bit SPI 18V GPI with maskable INT 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 LV TP GPIO with INT PCA9535A  16-bit IPC Fm LV TP GPIO with INT PCA9539A  16-bit IPC Fm LV TP GPIO with INT and RST PCA9539A  16-bit IPC Fm LV TP GPIO with INT and RST PCA9539A  16-bit IPC Fm LV TP GPIO with INT and RST PCA9539A  16-bit IPC Fm LV TP GPIO with INT and RST PCA4539A  16-bit IPC Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9535A  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, RST, latch and PU/PD PCA9555A  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 PU/PD PCA9673  16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9673  16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9670  16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9670  16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9670  16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9702  16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST and PU PCA9704  16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST and PU PCA9704  16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST and PU PCA9704  16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST and PU PCA9705  16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST and PU PCA9706  16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST and PU PCA9709  16-bit IPC Fm LV VLT TP/OD GPIO with INT, RST and PU PCA9505  40-bit IPC Fm LV VLT TP/OD WITH INT, RST, OE and PU			
PCA9701 8-bit SPI 18V GPI with INT PCA9703 8-bit SPI 18V GPI with INT PCA9703 8-bit SPI 18V GPI with maskable INT PCA8575 16-bit I²C Fm QB GPIO with INT and PU PCF8575 16-bit I²C Fm QB GPIO with INT and PU PCF8575 16-bit I²C Fm QB GPIO with INT PCA9535 16-bit I²C Fm DG GPIO with INT PCA9535 16-bit I²C Fm TP GPIO with INT PCA9535 16-bit I²C Fm DG GPIO with INT PCA9535A 16-bit I²C Fm LV TP GPIO with INT PCA9535A 16-bit I²C Fm LV TP/OD GPIO with INT, latch and PU/PD + 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, RST, latch and PU/PD PCA9539A 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit I²C Fm LV TP GPIO with INT and PU PCA9555A 16-bit I²C Fm LV TP GPIO with INT and PU PCA9555 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9575 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9671 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9670 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9702 16-bit I²C Fm + QB GPIO with INT and PU PCA9704 16-bit SPI 18V GPI with INT PCA9505 40-bit I²C Fm + QB GPIO with INT, RST, OE and PU			·
PCA9703 8-bit SPI 18V GPI with maskable INT  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 DG GPIO with INT  PCA9535 16-bit I²C Fm TP GPIO with INT  PCA9535 16-bit I²C Fm DG GPIO with INT  PCA9535 16-bit I²C Fm DG GPIO with INT  PCA9535 16-bit I²C Fm LV TP GPIO with INT  PCA9535 16-bit I²C Fm LV TP/OD GPIO with INT, latch and PU/PD  + PCA9539 16-bit I²C Fm LV TP/OD GPIO with INT and RST  PCA9539R 16-bit I²C Fm LV TP GPIO with INT and RST (state machine only)  PCA9539A 16-bit I²C Fm LV TP GPIO with INT and RST  PCAL9539A 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD  PCA9539A 16-bit I²C Fm LV TP GPIO with INT and RST  PCAL6416A 16-bit I²C Fm LV VLT TP GPIO with INT, RST, latch and PU/PD  PCA9555 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD  PCA9555 16-bit I²C Fm LV TP GPIO with INT and PU  PCA9555 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD  PCA9575 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD  PCA9671 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD  PCA9673 16-bit I²C Fm LV DG GPIO with INT, RST, latch and PU/PD  PCA9675 16-bit I²C Fm LV DG GPIO with INT, RST and PU  PCA9675 16-bit I²C Fm QB GPIO with INT, RST and PU  PCA9670 16-bit SPI 18V GPI with INT  PCA9704 16-bit SPI 18V GPI with Maskable INT  24-bit PCA9505 40-bit I²C Fm TP GPIO with INT, RST, OE and PU		PCA9674A	
PCA8575 16-bit I²C Fm QB GPIO with INT and PU PCF8575 16-bit I²C Fm QB GPIO with INT and PU PCF8575 16-bit I²C Fm QB GPIO with INT PCA9535 16-bit I²C Fm DG GPIO with INT PCA9535 16-bit I²C Fm DG GPIO with INT PCA9535A 16-bit I²C Fm LV TP GPIO with INT PCA9535A 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 and RST PCA9539R 16-bit I²C Fm LV 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, RST, 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 GPIO with INT and RST PCAL6416A 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit I²C Fm LV TP GPIO with INT and PU PCA9555A 16-bit I²C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9671 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit I²C Fm LV DG GPIO with INT, RST, latch and PU/PD PCA9675 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9702 16-bit I²C Fm QB GPIO with INT and PU PCA9704 16-bit SPI 18V GPI with INT PCA9704 16-bit SPI 18V GPI with Maskable INT PCA9505 40-bit I²C Fm TP GPIO with INT, RST, OE and PU		PCA9701	8-bit SPI 18V GPI with INT
PCF8575 16-bit I²C Fm QB GPIO with INT and PU PCF8575C 16-bit I²C Fm OD GPIO with INT PCA9535 16-bit I²C Fm TP GPIO with INT PCA9535C 16-bit I²C Fm D GPIO with INT PCA9535A 16-bit I²C Fm LV TP GPIO with INT PCA9535A 16-bit I²C Fm LV TP/OD GPIO with INT, latch and PU/PD + PCA9539A 16-bit I²C Fm TP GPIO with INT and RST PCA9539R 16-bit I²C Fm LV 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 GPIO with INT, RST, 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 GPIO with INT, RST, latch and PU/PD PCA9555 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA955A 16-bit I²C Fm LV TP GPIO with INT and PU PCA955A 16-bit I²C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9671 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit I²C Fm QB GPIO with INT, RST and PU PCA9675 16-bit I²C Fm QB GPIO with INT, RST and PU PCA9702 16-bit SPI 18V GPI with INT PCA9704 16-bit SPI 18V GPI with Maskable INT PCA9505 40-bit I²C Fm TP GPIO with Agile I/O Plus Features PCA9505 40-bit I²C Fm TP GPIO with INT, RST, OE and PU		PCA9703	8-bit SPI 18V GPI with maskable INT
PCF8575C 16-bit I <sup>2</sup> C Fm OD GPIO with INT PCA9535 16-bit I <sup>2</sup> C Fm TP GPIO with INT PCA9535C 16-bit I <sup>2</sup> C Fm D 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 + PCA9539A 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 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 PCA9539A 16-bit I <sup>2</sup> C Fm LV VLT TP 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 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 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 PCA9675 16-bit I <sup>2</sup> C Fm LQB GPIO with INT, RST and PU PCA9675 16-bit I <sup>2</sup> C Fm QB GPIO with INT, RST and PU PCA9702 16-bit SPI 18V GPI with INT PCA9704 16-bit SPI 18V GPI with Maskable INT PCA9505 40-bit I <sup>2</sup> C Fm TP GPIO with Agile I/O Plus Features PCA9505 40-bit I <sup>2</sup> C Fm TP GPIO with INT, RST, OE and PU			
PCA9535 16-bit I²C Fm TP GPIO with INT PCA9535C 16-bit I²C Fm OD GPIO with INT PCA9535A 16-bit I²C Fm LV TP GPIO with INT PCAL9535A 16-bit I²C Fm LV TP/OD GPIO with INT, latch and PU/PD + PCA9539 16-bit I²C Fm TP GPIO with INT and RST PCA9539R 16-bit I²C Fm TP GPIO with INT and RST (state machine only) PCA9539A 16-bit I²C Fm LV TP GPIO with INT and RST PCAL9539A 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA6416A 16-bit I²C Fm LV VLT TP GPIO with INT, RST, latch and PU/PD PCA9555 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555A 16-bit I²C Fm LV TP GPIO with INT and PU PCA9555A 16-bit I²C Fm LV TP GPIO with INT and PU PCA9575 16-bit I²C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9671 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit I²C Fm QB GPIO with INT, RST and PU PCA9675 16-bit I²C Fm QB GPIO with INT, RST and PU PCA9702 16-bit SPI 18V GPI with INT PCA9704 16-bit SPI 18V GPI with Maskable INT PCA9505 40-bit I²C Fm TP GPIO with Agile I/O Plus Features PCA9505 40-bit I²C Fm TP GPIO with INT, RST, OE and PU			
PCA9535C 16-bit I²C Fm OD GPIO with INT PCA9535A 16-bit I²C Fm LV TP GPIO with INT PCAL9535A 16-bit I²C Fm LV TP/OD GPIO with INT, latch and PU/PD + PCA9539 16-bit I²C Fm TP GPIO with INT and RST PCA9539A 16-bit I²C Fm LV TP GPIO with INT and RST PCAL9539A 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA6416A 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA6416A 16-bit I²C Fm LV VLT TP GPIO with INT and RST PCAL6416A 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555A 16-bit I²C Fm LV TP GPIO with INT and PU PCA9555A 16-bit I²C Fm LV TP GPIO with INT, latch and PU/PD (PU default) PCA9575 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9671 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST and PU PCA9702 16-bit SPI 18V GPI with INT and PU PCA9704 16-bit SPI 18V GPI with INT PCA9704 24-bit ULV GPIO with Agile I/O Plus Features PCA9505 40-bit I²C Fm TP GPIO with INT, RST, OE and PU			
PCA9535A 16-bit I²C Fm LV TP GPIO with INT PCAL9535A 16-bit I²C Fm LV TP/OD GPIO with INT, latch and PU/PD + PCA9539 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 GPIO with INT and RST PCAL9539A 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA6416A 16-bit I²C Fm LV VLT TP GPIO with INT, RST, latch and PU/PD PCA9555 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit I²C Fm LV TP GPIO with INT and PU PCAP555A 16-bit I²C Fm LV TP GPIO with INT and PU PCA9575 16-bit I²C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9671 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9675 16-bit I²C Fm QB GPIO with INT, RST and PU PCA9675 16-bit I²C Fm QB GPIO with INT, RST and PU PCA9702 16-bit SPI 18V GPI with INT PCA9704 16-bit SPI 18V GPI with Maskable INT PCA9505 40-bit I²C Fm TP GPIO with Agile I/O Plus Features PCA9505 40-bit I²C Fm TP GPIO with INT, RST, OE and PU			
+ PCA9539 16-bit I²C Fm TP GPIO with INT and RST PCA9539R 16-bit I²C Fm TP GPIO with INT and RST (state machine only) PCA9539A 16-bit I²C Fm LV TP GPIO with INT and RST PCAL9539A 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA6416A 16-bit I²C Fm LV VLT TP GPIO with INT and RST PCAL6416A 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555A 16-bit I²C Fm LV TP GPIO with INT and PU PCAL9555A 16-bit I²C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9575 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9671 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit I²C Fm QB GPIO with INT, RST and PU PCA9675 16-bit I²C Fm QB GPIO with INT, RST and PU PCA9702 16-bit SPI 18V GPI with INT PCA9704 16-bit SPI 18V GPI with Maskable INT PCA9505 40-bit I²C Fm TP GPIO with Agile I/O Plus Features PCA9505 40-bit I²C Fm TP GPIO with INT, RST, OE and PU			
PCA9539R 16-bit I²C Fm TP GPIO with INT and RST (state machine only) PCA9539A 16-bit I²C Fm LV TP GPIO with INT and RST PCAL9539A 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA6416A 16-bit I²C Fm LV VLT TP GPIO with INT and RST PCAL6416A 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555A 16-bit I²C Fm LV TP GPIO with INT and PU PCAL9555A 16-bit I²C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9575 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9671 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit I²C Fm QB GPIO with INT, RST and PU PCA9675 16-bit I²C Fm QB GPIO with INT, RST and PU PCA9702 16-bit SPI 18V GPI with INT PCA9704 16-bit SPI 18V GPI with Maskable INT PCA9505 40-bit I²C Fm TP GPIO with Agile I/O Plus Features PCA9505 40-bit I²C Fm TP GPIO with INT, RST, OE and PU		PCAL9535A	16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, latch and PU/PD
PCA9539A 16-bit I²C Fm LV TP GPIO with INT and RST PCAL9539A 16-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD PCA6416A 16-bit I²C Fm LV VLT TP GPIO with INT and RST PCAL6416A 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9555 16-bit I²C Fm LV VLT TP/OD GPIO with INT and PU PCA9555A 16-bit I²C Fm LV TP GPIO with INT and PU PCAL9555A 16-bit I²C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) PCA9575 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9671 16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD PCA9673 16-bit I²C Fm + QB GPIO with INT, RST and PU PCA9675 16-bit I²C Fm + QB GPIO with INT, RST and PU PCA9675 16-bit I²C Fm + QB GPIO with INT and PU PCA9702 16-bit SPI 18V GPI with INT PCA9704 16-bit SPI 18V GPI with maskable INT PCA9505 40-bit I²C 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 LV 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 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 PCA9702 16-bit SPI 18V GPI with INT PCA9704 16-bit SPI 18V GPI with MINT PCA9704 16-bit SPI 18V GPI with maskable INT PCA9505 40-bit I <sup>2</sup> C Fm TP GPIO with INT, RST, OE and PU			16-bit I <sup>2</sup> C Fm TP GPIO with INT and RST (state machine only)
16-bit   PCA6416A   16-bit   PC Fm LV VLT TP GPIO with INT and RST			
PCAL6416A  16-bit   PCAL6416A   16-bit   PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD   PCA9555   16-bit   PC Fm TP GPIO with INT and PU   PCA9555A   16-bit   PC Fm LV TP GPIO with INT and PU   PCAL9555A   16-bit   PC Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default)   PCA9575   16-bit   PC Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD   PCA9671   16-bit   PC Fm + QB GPIO with INT, RST and PU   PCA9673   16-bit   PC Fm + QB GPIO with INT, RST and PU   PCA9675   16-bit   PC Fm + QB GPIO with INT and PU   PCA9702   16-bit SPI 18V GPI with INT   PCA9704   16-bit SPI 18V GPI with maskable INT   PCA9505   40-bit   PC Fm TP GPIO with INT, RST, OE and PU			
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 PCA9702 16-bit SPI 18V GPI with INT PCA9704 16-bit SPI 18V GPI with maskable INT PCA6524 24-bit ULV GPIO with Agile I/O Plus Features PCA9505 40-bit I <sup>2</sup> C Fm TP GPIO with INT, RST, OE and PU	16-bit		16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and
PCA9555A         16-bit I²C Fm LV TP GPIO with INT and PU           PCAL9555A         16-bit I²C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default)           PCA9575         16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD           PCA9671         16-bit I²C Fm+ QB GPIO with RST and PU           PCA9673         16-bit I²C Fm+ QB GPIO with INT, RST and PU           PCA9675         16-bit I²C Fm+ QB GPIO with INT and PU           PCA9702         16-bit SPI 18V GPI with INT           PCA9704         16-bit SPI 18V GPI with maskable INT           PCA6524         24-bit ULV GPIO with Agile I/O Plus Features           PCA9505         40-bit I²C Fm TP GPIO with INT, RST, OE and PU			
PCAL9555A         16-bit I²C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default)           PCA9575         16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD           PCA9671         16-bit I²C Fm+ QB GPIO with RST and PU           PCA9673         16-bit I²C Fm+ QB GPIO with INT, RST and PU           PCA9675         16-bit I²C Fm+ QB GPIO with INT and PU           PCA9702         16-bit SPI 18V GPI with INT           PCA9704         16-bit SPI 18V GPI with maskable INT           PCA6524         24-bit ULV GPIO with Agile I/O Plus Features           PCA9505         40-bit I²C Fm TP GPIO with INT, RST, OE and PU			
PCA9575   16-bit 1 <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD   PCA9671   16-bit 1 <sup>2</sup> C Fm+ QB GPIO with RST and PU   PCA9673   16-bit 1 <sup>2</sup> C Fm+ QB GPIO with INT, RST and PU   PCA9675   16-bit 1 <sup>2</sup> C Fm+ QB GPIO with INT and PU   PCA9702   16-bit SPI 18V GPI with INT   PCA9704   16-bit SPI 18V GPI with maskable INT   PCA9505   24-bit ULV GPIO with Agile I/O Plus Features   PCA9505   40-bit 1 <sup>2</sup> C Fm TP GPIO with INT, RST, OE and PU			16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU
PCA9673       16-bit I²C Fm+ QB GPIO with INT, RST and PU         PCA9675       16-bit I²C Fm+ QB GPIO with INT and PU         PCA9702       16-bit SPI 18V GPI with INT         PCA9704       16-bit SPI 18V GPI with maskable INT         24-bit       PCA6524       24-bit ULV GPIO with Agile I/O Plus Features         PCA9505       40-bit I²C Fm TP GPIO with INT, RST, OE and PU		PCA9575	16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and
PCA9675         16-bit I²C Fm+ QB GPIO with INT and PU           PCA9702         16-bit SPI 18V GPI with INT           PCA9704         16-bit SPI 18V GPI with maskable INT           24-bit         PCA6524         24-bit ULV GPIO with Agile I/O Plus Features           PCA9505         40-bit I²C Fm TP GPIO with INT, RST, OE and PU		PCA9671	16-bit I <sup>2</sup> C Fm+ QB GPIO with RST and PU
PCA9702         16-bit SPI 18V GPI with INT           PCA9704         16-bit SPI 18V GPI with maskable INT           24-bit         PCA6524         24-bit ULV GPIO with Agile I/O Plus Features           PCA9505         40-bit I²C Fm TP GPIO with INT, RST, OE and PU		PCA9673	16-bit I <sup>2</sup> C Fm+ QB GPIO with INT, RST and PU
PCA9704 16-bit SPI 18V GPI with maskable INT  24-bit PCA6524 24-bit ULV GPIO with Agile I/O Plus Features  PCA9505 40-bit I <sup>2</sup> C Fm TP GPIO with INT, RST, OE and PU			
24-bit PCA6524 24-bit ULV GPIO with Agile I/O Plus Features PCA9505 40-bit I <sup>2</sup> C Fm TP GPIO with INT, RST, OE and PU			
PCA9505 40-bit I <sup>2</sup> C Fm TP GPIO with INT, RST, OE and PU	241:		
	z4-bit		
#U-DIT PLAYSUA 4U-DIT PLAYSUA THE INTERPRETATION OF	40-bit	PCA9505 PCA9506	40-bit I <sup>2</sup> C Fm TP GPIO with INT, RST, OE and PU  40-bit I <sup>2</sup> C Fm TP GPIO with INT, RST and OE
			•
PCA9506 40-bit I <sup>2</sup> C Fm TP GPIO with INT, RST and OE  PCA9698 40-bit I <sup>2</sup> C Fm+ TP/OD GPIO with INT, RST, OE and PU			•

Stepper Motor Controller		
1 motor controller	PCA9629A	mproved I <sup>2</sup> C Fm+ Stepper Motor Controller with TP GPIO with INT and RST
Capacitive Sensor		
1-channel touch switch	PCA8883	I <sup>2</sup> C Fm+ Touch / Proximity Sensor for one switch
2-channel touch switch	PCA8886	I <sup>2</sup> C Fm+ Touch / Proximity Sensor for two switches
8-channel touch switch	+ PCA/PCF8885	I <sup>2</sup> C Fm+ Touch / Proximity Sensor for up to 28 keys

Temp sensors		
	LM75B	$\mbox{\ensuremath{^{2}}\mbox{\ensuremath{\mbox{C}}}}$ Fm TS local with $\pm$ 2 $^{\circ}\mbox{\ensuremath{\mbox{C}}}$ accuracy and SMBus timeout
	SE95	I <sup>2</sup> C Fm TS local with ± 1 °C accuracy (NRND)
Local	SE98A	$\ensuremath{\mbox{l}^2\mbox{C}}$ FmDDR TS, no SPD, +/- 1°C accuracy and SMBus time-out
	PCT2075	I <sup>2</sup> C Fm+ TS with +/- 1oC accuracy and SMBus time-out
	PCT2202	$\mbox{\sc I}^2\mbox{\sc C}$ HSm TS, 1.8 V, +/- $\mbox{\sc 1}^{\circ}\mbox{\sc C}$ accuracy and SMBus timeout
Local and EEPROM	SE97B	$\mbox{I}^2\mbox{C}$ Fm DDR TS local with $\pm$ 1 $^{\circ}\mbox{C}$ accuracy, 2K SPD and SMBus time-out
Local and remote	NE1617A	$\mbox{\sc l}^2\mbox{\sc C}$ Fm TS local with $\pm$ 2 °C accuracy and remote with $\pm$ 3 °C accuracy
	SA56004	$I^2C$ Fm TS local with $\pm$ 2 °C accuracy and remote with $\pm$ 1 °C accuracy

LED controllers		
	PCA9530	2-channel I <sup>2</sup> C Fm OD LED dimmer with RST
Dimmer (2 PWM,	PCA9531	8-channel I <sup>2</sup> C Fm OD LED dimmer with RST
25 mA / 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
	PCA9550	2-channel I <sup>2</sup> C Fm OD LED blinker with RST
Blinker (2 PWM,	PCA9551	8-channel I <sup>2</sup> C Fm OD LED blinker with RST
25 mA / 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
	PCA9632	4-channel I <sup>2</sup> C Fm+ low-power TP LED controller
Controller	PCA9633	4-channel I <sup>2</sup> C Fm+ TP LED controller with OE
(PWM / Ch, 25 mA /	PCA9634	8-channel I <sup>2</sup> C Fm+ TP LED controller with OE
5 V)	+ 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
Controller (PWM/Ch, 57 mA / 20 V)	+ PCA9955B	16-channel I <sup>2</sup> C Fm+ 20 V CS LED controller
	+PCA9745B	16-channel SPI 20 V CS LED Controller
	PCA9956B	24-channel I <sup>2</sup> C Fm+ 20 V CS LED controller
Controller (PWM / Ch, 57 mA / 40 V)	+ PCA9952	16-channel I <sup>2</sup> C Fm+ HV CS LED controller with OE
	+ PCA9955	16-channel I <sup>2</sup> C Fm+ HV CS LED controller
Controller (PWM / Ch, 100 mA / 20 V)	PCA9655A	16-channel I <sup>2</sup> C Fm+ 20 V OD LED Controller
Controller	PCA9624	8-channel I <sup>2</sup> C Fm+ HV OD LED controller with OE
(PWM / Ch, 100 mA /	PCA9622	16-channel I <sup>2</sup> C Fm+ HV OD LED controller with OE
40 V)	PCA9626	24-channel I <sup>2</sup> C Fm+ HV OD LED controller with OE

Real-time clocks		
	PCF85063	I <sup>2</sup> C Fm / Tiny RTC with 30s, 60s interrupt
	PCF85063A	I <sup>2</sup> C Fm / Tiny RTC with Alarm and 30s, 60s interrupt
1	PCF85263A	I <sup>2</sup> C Fm / Tiny RTC with Alarms, time stamp and battery back-up switch
Low-power	PCF85363A	I <sup>2</sup> C Fm / Tiny RTC with Alarms, time stamp and battery back-up switch + 64Byte RAM
	PCF8523	I <sup>2</sup> C Fm+ Ultra low-power RTC with loss of main power detection and automatic battery back-up
	PCF8563	I <sup>2</sup> C Fm low-power clock/calendar
Automotive High temperature	+PCA85063A	I <sup>2</sup> C Fm / Tiny RTC with Alarm and 30s, 60s interrupt -40°C+105°C
	+PCA8565	I <sup>2</sup> C Fm High temperature clock/calendar -40°C+125°C
	+PCA2129	I <sup>2</sup> C Fm High-accuracy, low voltage RTC with time stamp -40°C+85°C
Temperature compensated high accuracy	PCF2127(A)	I <sup>2</sup> C Fm High-accuracy, low-voltage RTC with time stamp and 512 x 8 RAM
	PCF2129(A)	I <sup>2</sup> C Fm High-accuracy, low voltage RTC with time stamp

Muxes and switches	<b>□</b> ⇒>	
	PCA9540B	2-channel I <sup>2</sup> C Fm mux
2-channel	PCA9542A	2-channel I <sup>2</sup> C Fm mux with INT
	PCA9543A/B	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)
z-to-i demux	PCA9541A/03	2 to 1 I <sup>2</sup> C Fm demux with INT and RST (no channel default)
	PCA9544A	4-channel I <sup>2</sup> C Fm mux with INT
	PCA9545A/ B/C	4-channel I <sup>2</sup> C Fm switch with INT and RST (B alternate address)
4-channel	PCA9546A	4-channel I <sup>2</sup> C Fm switch with RST
	PCA9846	ULV 4-channel switch with RST, two power supplies
	PCA9849	ULV 4-channel mux with RST, two power supplies
	PCA9547	8-channel I <sup>2</sup> C Fm mux with RST (channel 0 default)
8-channel	PCA9847	ULV 8-channel mux with RST, two power supplies
	PCA9548A	8-channel I <sup>2</sup> C Fm switch with RST
	PCA9848	ULV 8-channel switch with RST, two power supplies
Arbiter	PCA9641	2 masters to shared slave I <sup>2</sup> C Fm+ arbiter with INT and RST (no channels selected at default)

Bus buffers	A	
	PCA9510A	I <sup>2</sup> C Fm Incremental Offset hot-swap bus buffer (no RTA)
	PCA9511A	I <sup>2</sup> C Fm Incremental Offset hot swap-bus buffer
Incremental	PCA9512A	I <sup>2</sup> C Fm Incremental Offset VLT hot swap bus buffer
Offset	PCA9513A	$\mbox{I}^2\mbox{C}$ Fm Incremental Offset hot-swap bus buffer (92 $\mu\mbox{A}$ 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	PCA9615	I <sup>2</sup> C Fm+ VLT differential (4 wire) hot-swap bus buffer
Static Offset (1 side)	PCA9616	I <sup>2</sup> C Fm+ 0.8V LV VLT differential (4 wire) hot-swap bus buffer with INT (2 wire)
Amplifier	P82B715	I <sup>2</sup> C Fm HV bus extender
No Offset	PCA9646	4-channel I <sup>2</sup> C Fm+ No Offset buffer / switch with RST
	P82B96	I <sup>2</sup> C Fm HV bus buffer
	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 1.0V LV VLT bus buffer with current source
	PCA9509A	$\ensuremath{^{1^2}\text{C}}$ Fm 0.8V LV VLT bus buffer with current source
Static Offset	PCA9509P	I <sup>2</sup> C Fm 0.8V LV VLT bus buffer
(1 side)	PCA9517A	I <sup>2</sup> C Fm 0.9V LV 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+ slaves
	PCA9617A	I <sup>2</sup> C Fm+ 0.8 V LV VLT bus repeater
	PCA9515A	I <sup>2</sup> C Fm bus repeater
Static Offset (All sides)	PCA9516A	I <sup>2</sup> C Fm 5-channel hub
( til sides)	PCA9518A	I <sup>2</sup> C Fm expandable 5-channel hub
	GTL2000	22-bit I <sup>2</sup> C Fm+ VLT
Voltage trans- lator (doesn't isolate capaci- tance)	GTL2002	2-bit I <sup>2</sup> C Fm+ VLT
	GTL2003	8-bit I <sup>2</sup> C Fm+ VLT
	GTL2010	10-bit I <sup>2</sup> C Fm+ VLT
	PCA9306	Dual I <sup>2</sup> C/SMBus Fm+ VLT
	NVT2001	1-bit I <sup>2</sup> C Fm+ VLT
	NVT2002	2-bit I <sup>2</sup> C Fm+ VLT for I <sup>2</sup> C/SMBus applications
	NVT2003	3-bit I <sup>2</sup> C Fm+ VLT for two power supply applications
	NVT2006	6-bit I <sup>2</sup> C Fm+ VLT
	NVT2008	8-bit I <sup>2</sup> C Fm+ VLT
	NVT2010	10-bit I <sup>2</sup> C Fm+ VLT

## Decode table

Code	Description
Sm	100 kHz Standard-mode I <sup>2</sup> C-bus
Fm	400 kHz Fast-mode I <sup>2</sup> C-bus
Fm+	1 MHz Fast-mode Plus I <sup>2</sup> C-bus
HSm	3.4 MHz High Speed-mode I <sup>2</sup> C-bus
UFm	5 MHz Ultra Fast-mode I <sup>2</sup> C-bus
+	AEC-Q100 compliance
GPIO	General Purpose I/O Expander
TS	Thermal Sensor
RTC	Real Time Clock
LCD	Liquid Crystal Display

Code	Description
DAC	Digital Analog Converter
ADC	Analog Digital Converter
LV	Supply voltage < 2.3 V
VLV	Supply voltage < 1.65 V
ULV	Supply voltage < 1.0 V
HV	Outputs >10 V
VLT	Voltage Level Translator – 2 Supplies
TP	Totem-pole (push-pull)
QB	Quasi-bidirectional
OD	Open drain

Code	Description
CS	Current source
INT	Interrupt
RST	Reset
OE	Output enable
Latch	Input latch
PU	Pull-up resistors
PU/PD	Pull-up/pull-down resistors
COG	Chip on Glass

.CD drivers	8	
	PCA8561A/B	I <sup>2</sup> C Fm 72-segment low-power LCD driver in HVQFN32 package
	PCF8566	I <sup>2</sup> C Fm 96-segment low-power LCD driver in VSO40 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 144-segment low-power LCD driver with programmable frame frequency in TSSOP48 package
	PCA/PCE/ PCF85176	I <sup>2</sup> C 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 160-segment low-power LCD driver with programmable frame frequency in TSSOP56 package
	PCA8546	I <sup>2</sup> C Fm 176-segment LCD driver with programmable frame frequency in TSSOP56 package
	PCA8547	I <sup>2</sup> C Fm 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
	PCA8543	I <sup>2</sup> C Fm 240-segment LCD driver with programmable frame frequency, charge pump, VLCD temperature compensation in LQFP80 package
Segment driver	PCF8545	I <sup>2</sup> C Fm 320-segment LCD driver with programmable frame frequency in TSSOP56 package
	PCA/PCF8536	I <sup>2</sup> C Fm 320-segment LCD driver with programmable frame frequency and LED backlight PWM control in TSSOP56 package
	PCA/PCF8537	I <sup>2</sup> C Fm 352-segment LCD driver with programmable frame 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	I <sup>2</sup> 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
	PCA8530	I <sup>2</sup> C Fm 408-segment COG LCD driver with programmable frame frequency, charge pump, VLCD temperature compensation
	PCA/ PCF85132	I <sup>2</sup> C Fm 640-segment COG LCD driver with programmable frame frequency
	PCA85232	I <sup>2</sup> C Fm 640-segment COG LCD driver with higher programmable frame frequency
	PCA/PCF8538	I <sup>2</sup> C Fm 918-segment COG LCD driver with programmable frame frequency, charge pump, VLCD temperature compensation
Character drivers Graphic driver	PCF2119	$\mbox{I}^2\mbox{C Fm 2 x 16 characters} + 160\mbox{-icon COG LCD driver}$ with charge pump, VLCD temperature compensation
	PCF21219	$I^2C$ Fm $2\times16$ characters + 160-icon COG LCD driver with higher frame frequency, charge pump, VLCD temperature compensation
	PCA2117	I <sup>2</sup> C Fm 2 x 20 characters + 200-icon COG LCD driver with programmable frame frequency, charge pump, VLCD temperature compensation
	PCA8539	I <sup>2</sup> C Fm 18 x 100-pixel COG LCD driver with programmable frame frequency, charge pump, VLCD temperature compensation
	PCF8531	I <sup>2</sup> C Fm 34 x 128-pixel COG LCD driver with charge pump, VLCD temperature compensation
	PCF8578	I <sup>2</sup> C Sm 8x32 dot matrix LCD driver
	PCF8579	I <sup>2</sup> C Sm, up to 40,960 dots when combined with 32x PCF3278

	A/D-D/A converters	A/D	
8-bit ADC PCF8591 I <sup>2</sup> C Fm 4-channel ADC and 1-channel DAC	8-bit ADC	PCF8591	I <sup>2</sup> C Fm 4-channel ADC and 1-channel DAC

EEPROMs		
2-kbit	PCA9500	I <sup>2</sup> C Fm 256 x 8-bit EEPROM
	PCA9501	I <sup>2</sup> C Fm 256 x 8-bit EEPROM
	PCF85103C	$I^2C$ Sm 256 x 8-bit EEPROM (No programming time control output with ALT address)
	PCF8570	I <sup>2</sup> C Sm 256 x 8-bit RAM
4-kbit	PCF8594C	I <sup>2</sup> C Sm 1024 x 8-bit EEPROM
8-kbit	PCA24S08A	I <sup>2</sup> C Fm 1024 x 8-bit EEPROM with access protection
	NT3H1101W0F	I <sup>2</sup> C Fm 888 bytes EEPROM with dual interface NFC tag IC with power harvesting and field detect
DIP switch	PCA8550	I <sup>2</sup> C Fm 4-bit 1-of-2 mux & 5-bit EEPROM
	PCA9558	I <sup>2</sup> C Fm 5-bit MP/1-bit latch & 6-bit EEPROM with 2K EEPROM and 8-bit GPIO
	PCA9559	I <sup>2</sup> C Fm 5-bit mux/1-bit latch & 6-bit EEPROM
	PCA9560	I <sup>2</sup> C Fm 2 x 5-bit mux/1-bit latch & 6-bit EEPROM
	PCA9561	I <sup>2</sup> C Fm 4 x 6-bit mux & 6-bit EEPROM

Bridge and bus controllers		
	SC16IS740	I <sup>2</sup> C Fm/SPI-to-UART bridge with IrDA
	SC16lS741	I <sup>2</sup> C Fm/SPI-to-UART bridge with IrDA
	SC16IS750	I <sup>2</sup> C Fm/SPI-to-UART bridge with IrDA and GPIO
	SC16IS752	I <sup>2</sup> C Fm/SPI-to-DUART bridge with IrDA and GPIO
Bridge	SC16IS760	I <sup>2</sup> C Fm/SPI-to-UART bridge with IrDA and GPIO
	SC16IS762	I <sup>2</sup> C Fm/SPI-to-DUART bridge with IrDA and GPIO
	SC18IM700	UART-to-I <sup>2</sup> C Fm master bridge with GPIO
	SC18IS600	SPI-to-I <sup>2</sup> C Fm master bridge, 4 M with GPIO
	SC18IS602	I <sup>2</sup> C Fm slave-to-SPI master bridge
	PCF8584	I <sup>2</sup> C Sm bus controller with bus snoop
	PCA9564	I <sup>2</sup> C Fm bus controller
	PCA9661	1-channel I <sup>2</sup> C Fm+ bus controller with 4 K-byte buffer
Controller	PCA9663	3-channel I <sup>2</sup> C Fm+ bus controller with 4 K-byte buffer per channel
	PCA9665	I <sup>2</sup> C Fm+ bus controller with 68-byte buffer
	PCA9665A	I <sup>2</sup> C Fm+ bus controller with 68-byte buffer and restart condition fix
	PCU9669	1-channel Fm+ and 2-channel UFm bus controller with 4 K-byte buffer per channel

Level transceivers		
	GTL2005	4-bit GTL/GTL+ to LVTTL/TTL bi-directional non- latched translator
	GTL2006	13-bit GTL-/GTL/GTL+ to LVTTL translator
	GTL2007	12-bit GTL to LVTTL translator
	GTL2008	12-bit GTL to LVTTL translator high-impedance LVTTL and GTL outputs
GTL to LVTTL converters	GTL2012	2-bit LVTTL to GTL transceiver
	GTL2014	4-bit LVTTL to GTL transceiver
	GTL2018	8-bit LVTTL to GTL transceiver
	GTL2034	4-bit GTL to GTL buffer
	GTL2107	12-bit GTL-/GTL/GTL+ to LVTTL translator

Demo boards		
	OM6270	SPI/I <sup>2</sup> C to UART Bridge demo board (SC16IS750 / SC16IS760)
	OM6271	SPI to I <sup>2</sup> C Master Bridge demo board (SC18IS600)
Bridges	OM6272	UART to I <sup>2</sup> C Master Bridge demo board (SC18IM700)
	OM6273	SPI/I <sup>2</sup> C to dual UART/IRDA/GPIO demo board (SC16IS752/SC16IS762)
	OM6274	I <sup>2</sup> C to SPI Master Bridge demo board (SC18IS602)
	OM13257	Universal temperature sensor daughter card for Fm+ demo board
	OM13320	Fm+ demonstration kit, including GPIO target board, buffer board and bridge board
	OM13488	Fm+ demonstration kit universal 8-bit GPIO daughter card
	OM13489	Fm+ demonstration kit universal 16-bit GPIO daughter card
	OM13529	Fm+ demonstration kit universal 24-bit GPIO daughter card
Fm+ universal	OM13491	Breakout board panel A VSSOP8, XQFN8, HWSON8, MSOP8
	OM13492	Breakout board panel B various 6, 8, & 10-pin packages
	OM13493	Breakout board panel C DHVQFN 24, 20, 16, 14
	OM13494	Breakout board panel D HVQFN 14, 16, 20, 24
	OM13495	Breakout board panel E TSSOP 14, 16, 20, 24
	OM13496	Breakout board panel F TSSOP28, XQFN16, QSOP16, XFBGA16
	OM13497	Breakout board panel G HTSSOP28, VFBGA24, XFBGA24
	OM6275	I <sup>2</sup> C 2005-1 evaluation board
I <sup>2</sup> C-2005 board	OM6281	PCA9698 daughter card for I <sup>2</sup> C 2005-1
	OM6282	PCA9633 daughter card for I <sup>2</sup> C 2005-1
	OM6293	PCA9600 daughter card for I <sup>2</sup> C 2005-1
	OM6290	LCD driver evaluation board PCF8576D, PCF2119, PCF8531, PCA9633
	OM6292	PCA21125, PCF8562 demo board
	OM13500	PCA9620 demo board
LCD driver	OM13500A	PCF8537 and PCA8537 demo board
	OM13501	PCF8538 and PCA8538 demo board
	OM13501A	PCF8538 and PCA8538 evaluation board
	OM13502 <sup>1)</sup>	PCA2117 demo board
	OM13503 <sup>1)</sup> OM11056	PCA8539 demo board  2 x PCF8885 evaluation board
Touch and capacitive sensor	OM11057	16-channel touch switch for design support  PCF8885/PCF8886 capacitive sensors and PCF8536 LCD/LED driver demoboard
3611301	OM11057A	OM11057 add-on board with high sensitivity slider
	OM11057A	PCF85063TP & PCF85063ATL evaluation board
	OM11039A	PCF85263 evaluation board
RTC	OM13510	PCF8523 evaluation board
	OM13511	PCF2127 & PCF2129AT evaluation board
	OM13513	PCF85363 evaluation board
	OM13515	PCF85063AT evaluation board
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Demo boards	15	
USB	OM13518	USB-I <sup>2</sup> C-bus dongle
	OM13285	PCA9629 I <sup>2</sup> C stepper motor demo board and kit
Misc	OM13313	TDA5051A PLM demo board kit
	OM13314	TDA5051A Master/Slave lighting demo kit
	OM13315	NVT2001GM demo board, single channel bi-directional voltage level translator
	OM13317	NVT2008PW demo board, 8-channel bi-directional voltage level translator
Voltage level	OM13318	NVT2002DP demo board, dual channel bi-directional voltage level translator
translator	OM13319	NVT2003DP demo board, 3-channel bi-directional voltage level translator
	OM13323	NVT2006PW demo board, 6-channel bi-directional voltage level translator
	OM13324	NVT2010PW demo board, 10-channel bi-directional voltage level translator
	OM6277	PCA9564 evaluation board
	OM6282	PCA9633 LED dimmer 4-channel voltage switch demo board I <sup>2</sup> C Fm+
	OM13269	PCA9632 LED 4-channel demo board
	OM13321	PCA9956A LED dimmer 24-channel constant current demo board I <sup>2</sup> C Fm+
	OM13327	PCA9634 LED 8-channel demo board
LED driver	OM13329	PCA9952 demo board, LED dimmer 16-channel constant current demoboard I <sup>2</sup> C Fm+ (with output enable)
LLD anno.	OM13330	PCA9955 demo board, LED dimmer 16-channel constant current demo board I <sup>2</sup> C Fm+
	OM13332	PCA9685 demo board, 16-channel voltage source with 12-bit PWM demo board I <sup>2</sup> C Fm+
	OM13333	PCA9635 demo board, 16-channel voltage source with 8-bit PWM demo board I <sup>2</sup> C Fm+
	OM13483	PCA9955A/B 16-channel I <sup>2</sup> C Fm+ constant current LED driver demo board
	OM13528	PCA9532 16-channel LED dimmer voltage switch demo board



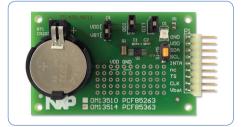
OM11058 PCA/F8885 TFT touch demo board



OM13512 PCF2123 SPI-bus RTC demo board



OM13257 Temp sensor daughter board



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



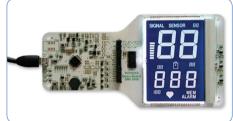
OM13320 Fm+ development board



OM13501 PCA85338 evaluation board



OM13518 Universal USB to  $I^2$ C-bus RTC interface dongle



OM13506 LCD driver demo board



OM13570 PCA941x evaluation board

Our l<sup>2</sup>C-bus website (www.nxp.com/i2c) is 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 l<sup>2</sup>C Fm+ development boards and daughter cards make it easy to program new peripherals and are a quick way to learn about the l<sup>2</sup>C-bus protocol.

### www.nxp.com/i2c

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