



## Smart, simple solutions for the 12 most common design concerns

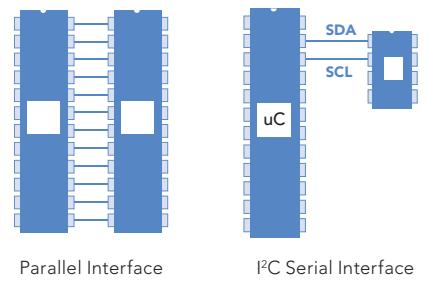
NXP I<sup>2</sup>C-bus solutions 2013

**NXP**

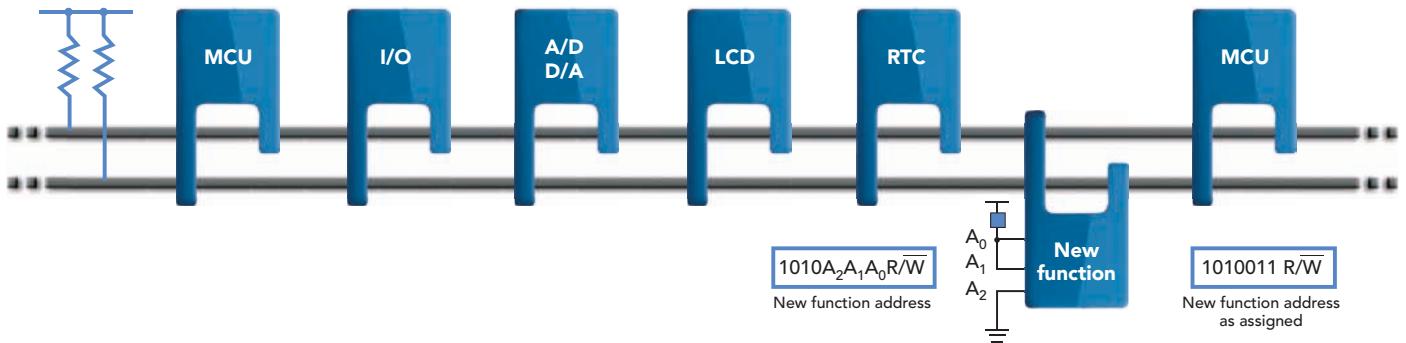
# I<sup>2</sup>C-bus: The serial revolution

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).

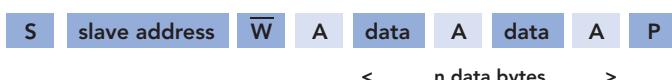


The I<sup>2</sup>C-bus shrinks the IC footprint and leads to lower IC costs. Plus, since far fewer copper traces are needed, it enables a smaller PCB, reduces design complexity, and lowers system cost.



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.

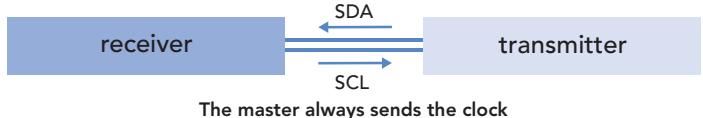
## Write data



## Master



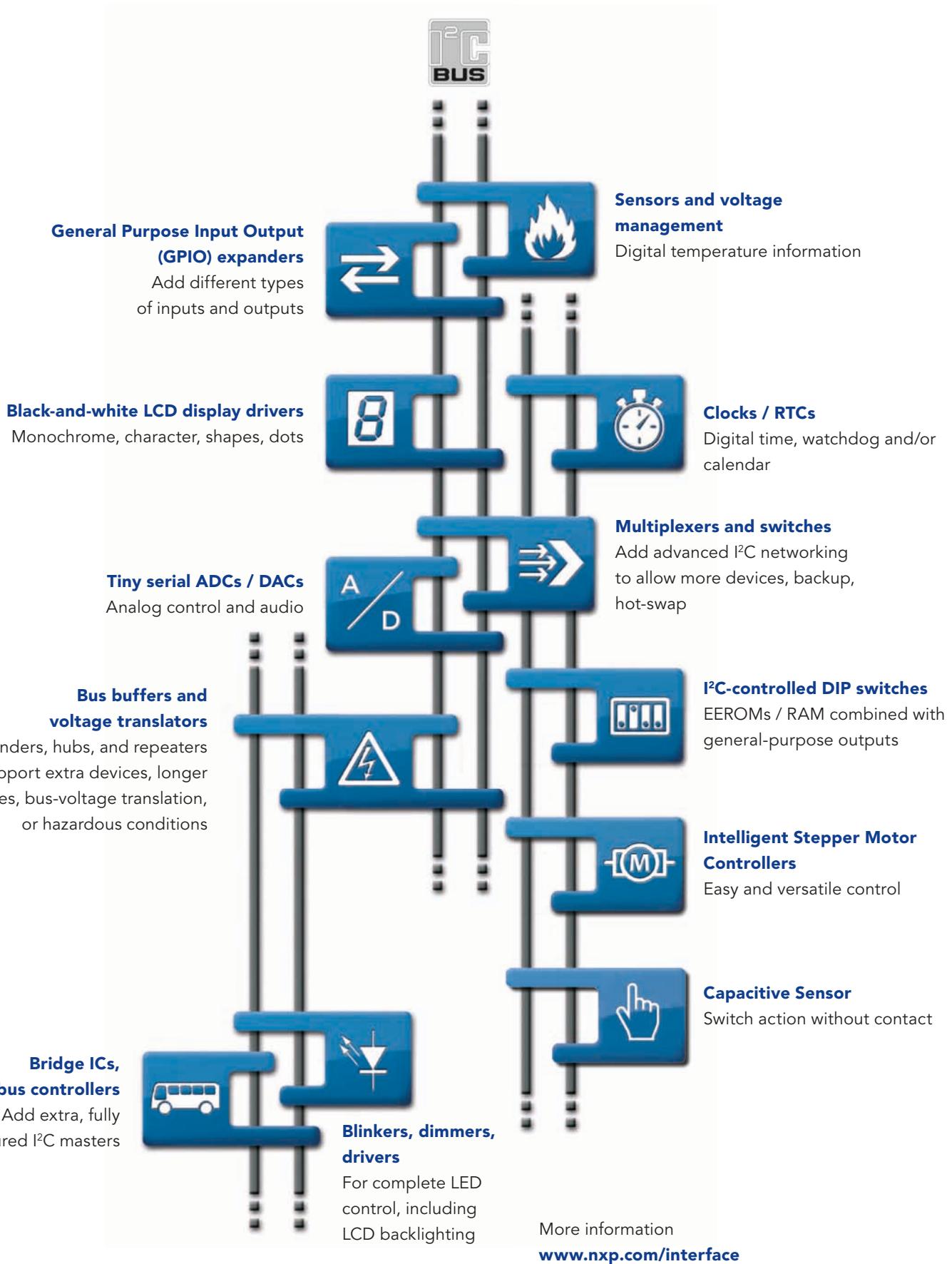
## Read data



S = Start condition    R/W = read/write

A = Acknowledge    A = Not acknowledge    P = Stop condition

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

GPIO Expander		
4-bit	PCA9536	4-bit I <sup>2</sup> C Fm TP GPIO with PU
	PCA9537	4-bit I <sup>2</sup> C Fm TP GPIO with INT and RST
	PCA9570	4-bit 1 MHz LV TP GPO
	PCA6408A	8-bit I <sup>2</sup> C Fm LV VLT TP GPIO with INT and RST
	PCA8574	8-bit I <sup>2</sup> C Fm QB GPIO with INT and PU
	PCA8574A	8-bit I <sup>2</sup> C Fm QB GPIO with INT and PU (Alternate address)
	PCA9500	8-bit I <sup>2</sup> C Fm QB GPIO with PU and 2-K EEPROM
	PCA9501	8-bit I <sup>2</sup> C Fm QB GPIO with INT, PU and 2-K EEPROM
	PCA9502	8-bit I <sup>2</sup> C Fm/SPI TP GPIO with INT and RST
	PCA9534	8-bit I <sup>2</sup> C Fm TP GPIO with INT
8-bit	+ PCA9538	8-bit I <sup>2</sup> C Fm TP GPIO with INT and RST
	PCA9538A	8-bit I <sup>2</sup> C Fm LV TP GPIO with INT and RST
	+ PCA9554	8-bit I <sup>2</sup> C Fm TP GPIO with INT and PU
	PCA9554A	8-bit I <sup>2</sup> C Fm TP GPIO with INT and PU (Alternate address)
	PCA9554B(C)	8-bit I <sup>2</sup> C Fm LV TP GPIO with INT and PU
	PCA9557	8-bit I <sup>2</sup> C Fm TP GPIO with RST
	PCA9571	8-bit 1 MHz LV TP GPO
	PCA9574	8-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD
	PCA9621	8-bit I <sup>2</sup> C Fm+ 65 mA OD GPO with RST
	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)
	PCAL6408A	8-bit I <sup>2</sup> C Fm LV VLT 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
16-bit	PCAL9554B(C)	8-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default)
	PCF8574	8-bit I <sup>2</sup> C Sm QB GPIO with INT and PU
	PCF8574A	8-bit I <sup>2</sup> C Sm QB GPIO with INT and PU (Alternate address)
	PCA6416A	16-bit I <sup>2</sup> C Fm LV VLT TP GPIO with INT and RST
	PCA8575	16-bit I <sup>2</sup> C Fm QB GPIO with INT and PU
	PCA9535	16-bit I <sup>2</sup> C Fm TP GPIO with INT
	PCA9535A	16-bit I <sup>2</sup> C Fm LV TP GPIO with INT
	PCA9535C	16-bit I <sup>2</sup> C Fm OD GPIO with INT
	+ PCA9539	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 GPIO with INT and RST
	PCA9539R	16-bit I <sup>2</sup> C Fm TP GPIO with INT and RST (state machine only)
	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
	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 RST and PU
40-bit	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
	PCAL6416A	16-bit I <sup>2</sup> C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD
	PCAL9535A	16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, latch and PU/PD
	PCAL9539A	16-bit I <sup>2</sup> C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD (PU default)
	PCF8575	16-bit I <sup>2</sup> C Fm QB GPIO with INT and PU
	PCF8575C	16-bit I <sup>2</sup> C Fm OD GPIO with INT
	PCA9505	40-bit I <sup>2</sup> C Fm TP GPIO with INT, RST, OE and PU
	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	PCA9629 I <sup>2</sup> C Fm+ Stepper Motor Controller with TP GPIO with INT and RST
Capacitive Sensor		
	8-channel touch switch	+ PCA/PCF8885 I <sup>2</sup> C Fm+ Touch / Proximity Sensor for up to 28 keys
Temp sensors		
Local	LM75A	I <sup>2</sup> C Fm TS local with $\pm 2$ °C accuracy (NRND)
	LM75B	I <sup>2</sup> C Fm TS local with $\pm 2$ °C accuracy and SMBus time-out
	SE95	I <sup>2</sup> C Fm TS local with $\pm 1$ °C accuracy (NRND)
	SE98A	I <sup>2</sup> C Fm DDR TS local with $\pm 1$ °C accuracy and SMBus time-out
	PCT1075	I <sup>2</sup> C Fm+ TS with +/- 0.5oC accuracy and SMBus time-out
	PCT2075	I <sup>2</sup> C Fm+ TS with +/- 1oC accuracy and SMBus time-out
Local and EEPROM	SE97B	I <sup>2</sup> C Fm DDR TS local with $\pm 1$ °C accuracy, 2K SPD and SMBus time-out
	NE1617A	I <sup>2</sup> C Fm TS local with $\pm 2$ °C accuracy and remote with $\pm 3$ °C accuracy
Local and remote	SA56004	I <sup>2</sup> C Fm TS local with $\pm 2$ °C accuracy and remote with $\pm 1$ °C accuracy
LED controllers		
Dimmer (2 PWM, 25 mA / 5 V)	PCA9530	2-channel I <sup>2</sup> C Fm OD LED dimmer with RST
	PCA9531	8-channel I <sup>2</sup> C Fm OD LED dimmer with RST
	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 (2 PWM, 25 mA / 5 V)	PCA9550	2-channel I <sup>2</sup> C Fm OD LED blinker with RST
	PCA9551	8-channel I <sup>2</sup> C Fm OD LED blinker with RST
	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
8-segment	SAA1064	16-channel I <sup>2</sup> C Sm current source/sink 4x8-segment LED display
	PCA9632	4-channel I <sup>2</sup> C Fm+ low-power TP LED controller
Controller (PWM / Ch, 25 mA / 5 V)	PCA9633	4-channel I <sup>2</sup> C Fm+ TP LED controller with OE
	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
	PCA9955A	16-channel I <sup>2</sup> C Fm+ 20 V CS LED controller
Controller (PWM/Ch, 57 mA / 20 V)	PCU9955A	16-channel I <sup>2</sup> C UFm 20 V CS LED controller
	PCA9956A	24-channel I <sup>2</sup> C Fm+ 20 V CS LED controller
	PCU9956A	24-channel I <sup>2</sup> C UFm 20 V CS LED controller
	+ PCA9952	16-channel I <sup>2</sup> C Fm+ HV CS LED controller with OE
Controller (PWM / Ch, 57 mA / 40 V)	+ PCA9955	16-channel I <sup>2</sup> C Fm+ HV CS LED controller
	PCU9955	16-channel I <sup>2</sup> C UFm HV CS LED controller
	PCA9624	8-channel I <sup>2</sup> C Fm+ HV OD LED controller with OE
	PCA9622	16-channel I <sup>2</sup> C Fm+ HV OD LED controller with OE
Controller (PWM / Ch, 100 mA / 40 V)	PCA9626	24-channel I <sup>2</sup> C Fm+ HV OD LED controller with OE
	PCU9654	8-channel I <sup>2</sup> C UFm HV OD LED controller with OE
	PCU9655	16-channel I <sup>2</sup> C UFm HV OD LED controller
	PCU9656	24-channel I <sup>2</sup> C UFm HV OD LED controller with OE
	SSL3250A	I <sup>2</sup> C Fm 500 mA sink dual LED flash with torch mode
LED flash	SSL3252	I <sup>2</sup> C Fm 500 mA source dual LED flash with torch mode

Real-time clocks			Bus buffers			
Low-power	PCA8802	I <sup>2</sup> C Fm RTC for One Time Password generation and smart cards	Incremental Offset	PCA9510A	I <sup>2</sup> C Fm Incremental Offset hot-swap bus buffer (no RTA)	
	PCF85063	I <sup>2</sup> C FM / Tiny RTC with 30s, 60s interrupt		PCA9511A	I <sup>2</sup> C Fm Incremental Offset hot swap-bus buffer	
	PCF85063A	I <sup>2</sup> C FM / Tiny RTC with Alarm and 30s, 60s interrupt		PCA9512A	I <sup>2</sup> C Fm Incremental Offset VLT hot swap bus buffer	
	PCF8523	I <sup>2</sup> C FM+ Ultra low-power RTC with loss of main power detection and automatic battery back-up		PCA9513A	I <sup>2</sup> C Fm Incremental Offset hot-swap bus buffer (92 $\mu$ A CS)	
	PCF8563	I <sup>2</sup> C Fm Ultra low-power clock/calendar		PCA9514A	I <sup>2</sup> C Fm Incremental Offset hot-swap bus buffer (0.8 V offset)	
Normal	+ PCA8565	I <sup>2</sup> C Fm High temperature clock/calendar -40°C...+125°C	Amplifier	P82B715	I <sup>2</sup> C Fm HV bus extender	
	PCF8583	I <sup>2</sup> C Sm Clock/calendar resolution: 0.01 s, with 256x8 SRAM	No Offset	PCA9525	I <sup>2</sup> C Fm (1 MHz) No Offset bus repeater	
Temp-compensated	PCF2127(A)	I <sup>2</sup> C Fm High-accuracy, low-voltage RTC with 512x8 RAM		PCA9605	I <sup>2</sup> C Fm+ No Offset bus repeater	
	+ PCA/PCF2129(A)	I <sup>2</sup> C Fm High-accuracy RTC		PCA9646	4-channel I <sup>2</sup> C Fm+ No Offset buffer / switch with RST	
Muxes and switches			Static Offset (1 side)	P82B96	I <sup>2</sup> C Fm HV bus buffer	
2-channel	PCA9540B	2-channel I <sup>2</sup> C Fm mux		PCA9507	I <sup>2</sup> C Fm VLT DDC buffer with accelerator	
	PCA9542A	2-channel I <sup>2</sup> C Fm mux with INT		PCA9508	I <sup>2</sup> C Fm VLT hot-swap bus repeater	
	PCA9543A/B	2-channel I <sup>2</sup> C Fm switch with INT and RST (B and C Alternate address)		PCA9509	I <sup>2</sup> C Fm 1.0V LV VLT bus buffer with current source	
2-to-1 demux	PCA9541A/01	2 to 1 I <sup>2</sup> C Fm demux with INT and RST (channel 0 default)		PCA9509A	I <sup>2</sup> C Fm 0.8V LV VLT bus buffer with current source	
	PCA9541A/03	2 to 1 I <sup>2</sup> C Fm demux with INT and RST (no channel default)		PCA9509P	I <sup>2</sup> C Fm 0.8V LV VLT bus buffer	
4-channel	PCA9544A	4-channel I <sup>2</sup> C Fm mux with INT		PCA9517A	I <sup>2</sup> C Fm 0.9V LV VLT bus repeater	
	PCA9545A/B/C	4-channel I <sup>2</sup> C Fm switch with INT and RST (B and C Alternate address)		PCA9519	4-channel version of PCA9509	
	PCA9546A	4-channel I <sup>2</sup> C Fm switch with RST		PCA9527	I <sup>2</sup> C Fm DDC VLT buffer with accelerator and CEC	
	PCA9646	4-channel I <sup>2</sup> C Fm+ No Offset buffer/switch with RST		PCA9600	I <sup>2</sup> C Fm+ HV bus buffer	
8-channel	PCA9547	8-channel I <sup>2</sup> C Fm mux with RST (channel 0 default)	Static Offset (All sides)	PCA9601	I <sup>2</sup> C Fm+ HV bus buffer with stronger 15 mA local side drive to support multiple Fm+ slaves	
	PCA9548A	8-channel I <sup>2</sup> C Fm switch with RST		PCA9617A	I <sup>2</sup> C Fm+ 0.8V LV VLT bus repeater	
Voltage translator (doesn't isolate capacitance)				PCA9515A	I <sup>2</sup> C Fm bus repeater	
				PCA9516A	I <sup>2</sup> C Fm 5-channel hub	
				PCA9518A	I <sup>2</sup> C Fm expandable 5-channel hub	
				GTL2000	22-bit I <sup>2</sup> C Fm+ VLT	
				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	
				NVT2004	4-bit I <sup>2</sup> C Fm+ VLT for SPI 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

	Bus Speed		Features
Sm	100 kHz Standard-mode I <sup>2</sup> C-bus	LV	Supply voltage <2.3 V
Fm	400 kHz Fast-mode I <sup>2</sup> C-bus	TP	Totem-pole (push-pull)
Fm+	1 MHz Fast-mode Plus I <sup>2</sup> C-bus	QB	Quasi-bidirectional
HSm	3.4 MHz High Speed-mode I <sup>2</sup> C-bus	OD	Open drain
UFm	5 MHz Ultra Fast-mode I <sup>2</sup> C-bus	CS	Current source
		INT	Interrupt
+	AEC-Q100 compliance	RST	Reset
GPIO	General Purpose I/O Expander	OE	Output enable
TS	Thermal Sensor	Latch	Input latch
RTC	Real Time Clock	PU	Pull-up resistors
LCD	Liquid Crystal Display	PU/PD	Pull-up/pull-down resistors
DAC	Digital Analog Converter	HV	Outputs >10 V
ADC	Analog Digital Converter	VLT	Voltage Level Translator – 2 Supplies
		COG	Chip on Glass

LCD drivers		
Bridge and bus controllers		
Segment driver	PCA/PCF85162	I <sup>2</sup> C Fm 128-segment LCD driver
	PCA/PCF85176	I <sup>2</sup> C Fm 160-segment LCD driver
	PCA/PCF85134	I <sup>2</sup> C Fm 240-segment LCD driver
	PCA/PCF8536	I <sup>2</sup> C Fm 320-segment LCD driver with LED backlight control, programmable frame frequency
	PCA/PCF8537	I <sup>2</sup> C Fm 352-segment LCD driver, programmable frame frequency, charge pump, VLCD temperature compensation
	PCA9620	I <sup>2</sup> C Fm 480-segment LCD driver, programmable frame frequency, charge pump, VLCD temperature compensation
	PCA/PCF8576D	I <sup>2</sup> C Fm 160-segment COG LCD driver
	PCA8576F <sup>2)</sup>	I <sup>2</sup> C Fm 160-segment COG LCD driver
	PCA/PCF85133	I <sup>2</sup> C Fm 320-segment COG LCD driver, selectable frame frequency
	PCA85233 <sup>2)</sup>	I <sup>2</sup> C Fm 320-segment COG LCD driver, selectable frame frequency
	PCA/PCF85132	I <sup>2</sup> C Fm 640-segment COG LCD driver, programmable frame frequency
	PCA85232	I <sup>2</sup> C Fm 640-segment COG LCD driver, programmable frame frequency
	PCA/PCF8538 <sup>1)</sup>	I <sup>2</sup> C Fm 918-segment COG LCD driver, programmable frame frequency, charge pump, VLCD temperature compensation
Character driver	PCF2113	I <sup>2</sup> C Fm 1/2-line, 12-character, 120-icon LCD driver, charge pump, VLCD temperature compensation
	PCF2116	I <sup>2</sup> C Sm 1/2-line, 24 characters per line, or 2/4 line, 12 characters per line, charge pump
	PCF2119	I <sup>2</sup> C Fm 1/2-line, 16-character, 160-icon LCD driver, charge pump, VLCD temperature compensation
	PCA/PCF2117 <sup>2)</sup>	I <sup>2</sup> C Fm 1/2-line, 20-character, 200-icon LCD driver, programmable frame frequency, charge pump, VLCD temperature compensation
Graphic driver	PCA/PCF8539 <sup>2)</sup>	I <sup>2</sup> C Fm 18 x 100-pixel LCD driver, programmable frame frequency, charge pump, VLCD temperature compensation
	PCF8531	I <sup>2</sup> C Fm 34 x 128-pixel LCD driver, charge pump, VLCD temperature compensation
	PCF8811	I <sup>2</sup> C Fm 80 x 128-pixel LCD driver, programmable frame frequency, charge pump, VLCD temperature compensation
1) <sup>1</sup> release H1 2013 - 2) <sup>2</sup> release H2 2013		
A/D-D/A converters		
8-bit ADC	PCF8591	I <sup>2</sup> C Sm 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 <sup>2</sup> C Sm 256 x 8-bit EEPROM (No programming time control output with ALT address)
	PCF8582C	I <sup>2</sup> C Sm 256 x 8-bit EEPROM
	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
	SL3S4001	I <sup>2</sup> C Fm 3.6K bit EEPROM with dual Gen2 RFID interface
8-kbit	PCA24S08A	I <sup>2</sup> C Fm 1024 x 8-bit EEPROM with access protection
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

Demo boards	
	OM6270 SPI/I <sup>2</sup> C-to-UART bridge demo (SC16IS750)
	OM6271 SPI-to-I <sup>2</sup> C-master bridge demo (SC18IS600)
	OM6272 UART-to-I <sup>2</sup> C-master bridge demo (SC18IM700)
	OM6273 SPI/I <sup>2</sup> C-to-DUART/IrDA/GPIO demo (SC16IS752)
	OM6274 I <sup>2</sup> C-to-SPI-master bridge demo (SC18IS602)
	OM6275 I <sup>2</sup> C 2005-1 evaluation board with PC controller
	OM6276 PCA9633 demo board
	OM6277 PCA9564 evaluation board
	OM6278 I <sup>2</sup> C 2002-1A evaluation board with PC controller
	OM6281 PCA9698 daughter card for I <sup>2</sup> C 2005-1
	OM6282 PCA9633 daughter card for I <sup>2</sup> C 2005-1
	OM6285 I <sup>2</sup> C 2002-1A evaluation board without PC controller board
e-Tools	OM6290 LCD driver evaluation board: PCF8576D, PCF2119, PCF8531, PCA9633
	OM6292 PCA21125, PCF8562 demoboard
	OM6293 PCA9600 daughter card for I <sup>2</sup> C 2005-1
	OM6297 PCF2123, PCF8562 demoboard
	OM11051 PCF2127A demo board
	OM11056 Two x PCF8885 evaluation board
	OM11057 PCF8885/86 capacitive sensor and PCF8536 LCD/LED driver
	OM11057A OM11057 add-on board with high sensitivity slider
	OM11059A PCF85063A evaluation board
	OM13260 I <sup>2</sup> C Fm+ development board (RoHS)
	OM13401 PCA9617A bus buffer board (RoHS)
	OM13303 GPIO target board (RoHS)
	OM13399 Bridge board (RoHS)
	OM13285 PCA9629 demo board
	OM13320 I <sup>2</sup> C Fm+ development kit (RoHS)

OM6275  
I<sup>2</sup>C 2005-1 evaluation board



OM6278  
I<sup>2</sup>C 2002-1A evaluation board



OM6277  
PCA9564 evaluation board



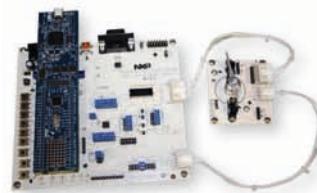
OM6293  
PCA9600 daughter card for I<sup>2</sup>C 2005-1



OM6276  
PCA9633 demo board



OM13285 PCA9629 stepper motor demonstration board



OM11057 PCF8885/86 touch switch with PCF8536 LCD/LED driver



Our I<sup>2</sup>C-bus website ([www.nxp.com/interface](http://www.nxp.com/interface)) 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 I<sup>2</sup>C Fm+ development board and daughter cards make it easy to program new peripherals and are a quick way to learn about the I<sup>2</sup>C-bus protocol.

OM13320 Fm+ Demonstration Kit which includes the OM13260 Fm+ Development Board with two OM13303 GPIO Target Boards and one each of the the OM13399 Bridge and OM13401 PCA9617A bus buffer daughter boards



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