System Management I²C and SPI Selector Guide 2018

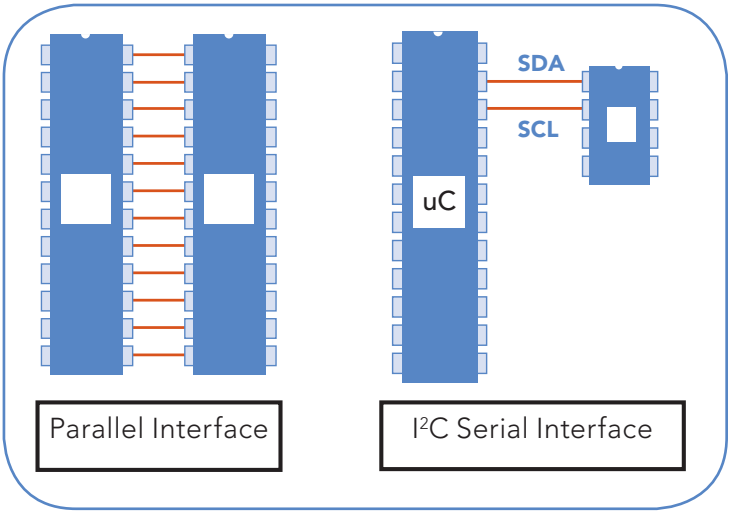
A broad catalog of interface components for all your design needs

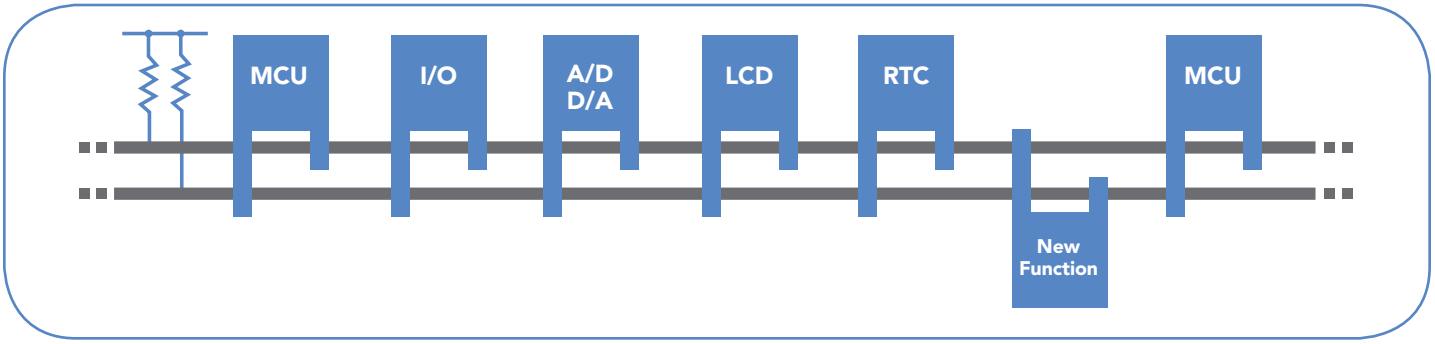
I²C-bus: The Serial Revolution

By replacing complex parallel interfaces with a straightforward yet powerful serial structure, the I²C-bus revolutionized chip-to-chip communications.

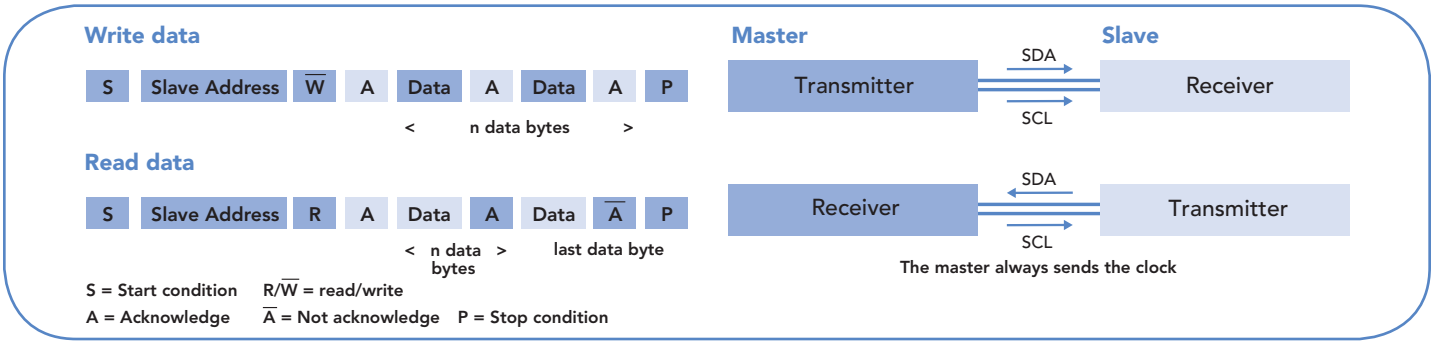
Invented by NXP (Philips) more than 30 years ago, the I²C bus uses a simple two-wire format to carry data one bit at a time. It performs inter-chip addressing, selection, control and data transfer. Speeds are up to 400 kHz (fast mode), 1 MHz (fast mode plus), 3.4 MHz (high-speed mode), or 5 MHz (ultra-fast mode).

The I²C 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.

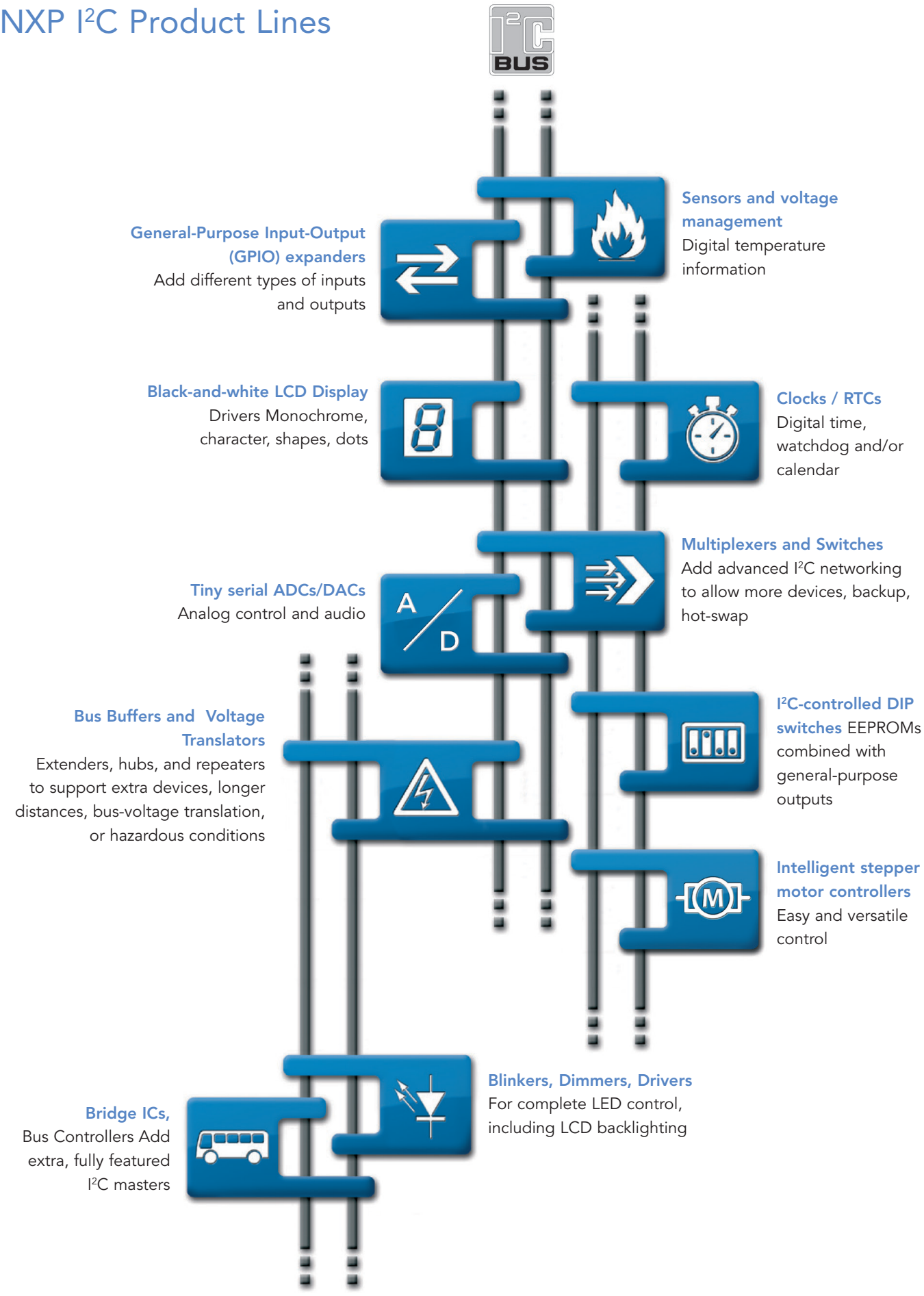




I²C bus devices are available in a wide range of functions. Each slave device has its own I²C bus address, selectable using address pins set high (1) or low (0). Information is transmitted byte by byte, and each byte is acknowledged by the receiver. There can be multiple devices on the same bus, and more than one IC can act as master. The master role is typically played by a microcontroller.



NXP I²C Product Lines



General-Purpose Input-Output (GPIO) expanders
Add different types of inputs and outputs

Sensors and voltage management
Digital temperature information

Black-and-white LCD Display
Drivers Monochrome, character, shapes, dots

Clocks / RTCs
Digital time, watchdog and/or calendar

Tiny serial ADCs/DACs
Analog control and audio

Multiplexers and Switches
Add advanced I²C networking to allow more devices, backup, hot-swap

Bus Buffers and Voltage Translators
Extenders, hubs, and repeaters to support extra devices, longer distances, bus-voltage translation, or hazardous conditions

I²C-controlled DIP switches EEPROMs combined with general-purpose outputs

Intelligent stepper motor controllers
Easy and versatile control

Blinkers, Dimmers, Drivers
For complete LED control, including LCD backlighting

Bridge ICs,
Bus Controllers Add extra, fully featured I²C masters

SPI Interface devices are included in the GPIO, LCD Display, Voltage Translators, RTC, Bridge and LED Blinker Categories. More information: **www.nxp.com/i2c.**

I²C-bus and SPI Product Summary

GPIO Expander		
4-bit	PCA9536	4-bit I²C Fm TP GPIO with PU
	PCA9537	4-bit I²C Fm TP GPIO with INT and RST
	PCA9570	4-bit 1 MHz LV TP GPO
8-bit	PCA8574	8-bit I²C Sm QB GPIO with INT and PU
	PCF8574	8-bit I²C Fm QB GPIO with INT and PU
	PCA8574A	8-bit I²C Fm QB GPIO with INT and PU (alternate address)
	PCF8574A	8-bit I²C Sm QB GPIO with INT and PU (alternate address)
	PCA9500	8-bit I²C Fm QB GPIO with PU and 2-K EEPROM
	PCA9501	8-bit I²C Fm QB GPIO with INT, PU and 2-K EEPROM
	PCA9502	8-bit I²C Fm/SPI TP GPIO with INT and RST
	PCA9534	8-bit I²C Fm TP GPIO with INT
	+ PCA9538	8-bit I²C Fm TP GPIO with INT and RST
	PCA9538A	8-bit I²C Fm LV TP GPIO with INT and RST
	PCAL9538A	8-bit I²C Fm LV TP/OD GPIO with INT, RST, latch and PU/PD
	PCA6408A	8-bit I²C Fm LV VLT TP GPIO with INT and RST
	PCAL6408A	8-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/ PD
	PCA9554	8-bit I²C Fm TP GPIO with INT and PU
	PCA9554A	8-bit I²C Fm TP GPIO with INT and PU (alternate address for PCA9554)
	PCA9554B	8-bit I²C Fm LV TP GPIO with INT and PU
	PCAL9554B	8-bit I²C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default)
	PCA9554C	8-bit I²C Fm LV TP GPIO with INT and PU (alternate address for PCA9554B)
	PCAL9554C	8-bit I²C Fm LV TP/OD GPIO with INT, latch and PU/PD (PU default) (alternate address for PCAL9554B)
	PCA9557	8-bit I²C Fm TP GPIO with RST
	PCA9571	8-bit 1 MHz LV TP GPO
	PCA9574	8-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD
	PCA9670	8-bit I²C Fm+ QB GPIO with RST and PU
	PCA9672	8-bit I²C Fm+ QB GPIO with INT, RST and PU
	PCA9674	8-bit I²C Fm+ QB GPIO with INT and PU
	PCA9674A	8-bit I²C 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 maskable INT
16-bit	PCA8575	16-bit I²C Fm QB GPIO with INT and PU
	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 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 and RST
	PCAL6416A	16-bit I²C Fm LV VLT TP/OD GPIO with INT, RST, latch and PU/PD
	PCA9555	16-bit I²C Fm TP 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+ 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
	PCA9701	16-bit SPI 18 V GPI with INT
	+ PCA9703	16-bit SPI 18 V GPI with maskable INT
24-bit	PCAL6524	24 bit I²C Fm+ ULV VLT TP/OD GPIO with INT, RST, latch and PU/PD
34-bit	PCAL6534	34 bit I²C Fm+ ULV VLT TP/OD GPIO with INT, RST, latch and PU/PD
40-bit	PCA9505	40-bit I²C Fm TP GPIO with INT, RST, OE and PU
	PCA9506	40-bit I²C Fm TP GPIO with INT, RST and OE
	PCA9698	40-bit I²C Fm+ TP/OD GPIO with INT, RST, OE and PU

Stepper Motor Controller		
1 motor controller	PCA9629A	Improved I²C Fm+ stepper motor controller with TP GPIO with INT and RSTC

Temp Sensors		
Local	LM75B	I²C Fm TS local with ± 2°C accuracy and SMBus timeout
	SE95	I²C Fm TS local with ± 1°C accuracy
	SE98A	I²C Fm JEDEC DDR3 TS, no SPD, +/- 1°C accuracy and SMBus time-out
	PCT2075	I²C Fm+ TS with +/- 1oC accuracy and SMBus time-out
	PCT2202	I²C Fm TS local with ± 1°C accuracy
Local and EEPROM	SE97B	I²C Fm JEDEC DDR3 TS local with ± 1°C accuracy, 2K SPD and SMBus time-out
Local and remote	SA56004	I²C HSmTS, 1.8 V, + 1 C accuracy and SMBus time-out

LED Controllers		
Open Drain or Totem Pole Voltage Source		
Dimmer (2 PWM, 25 mA/ 5 V)	PCA9530	2-channel I²C Fm OD LED dimmer with RST
	PCA9531	8-channel I²C Fm OD LED dimmer with RST
	PCA9532	16-channel I²C Fm OD LED dimmer with RST
	PCA9533	4-channel I²C Fm OD LED dimmer
Blinker (2 PWM, 25 mA/5 V)	PCA9550	2-channel I²C Fm OD LED blinker with RST
	PCA9551	8-channel I²C Fm OD LED blinker with RST
	PCA9552	16-channel I²C Fm OD LED blinker with RST
	PCA9553	4-channel I²C Fm OD LED blinker
Controller (PWM/Ch, 25 mA/ 5 V)	PCA9632	4-channel I²C Fm+ low-power TP LED controller
	PCA9633	4-channel I²C Fm+ TP LED controller with OE
	PCA9634	8-channel I²C Fm+ TP LED controller with OE
	+ PCA9635	16-channel I²C Fm+ TP LED controller with OE
	+ PCA9685	16-channel I²C Fm+ TP LED controller with 12-bit PWMs and OE
Controller (PWM/ Ch, 100 mA/40 V)	PCA9624	8-channel I²C Fm+ HV OD LED controller with OE
	PCA9622	16-channel I²C Fm+ HV OD LED controller with OE
	PCA9626	24-channel I²C Fm+ HV OD LED controller with OE
	PCU9656	24-channel I²C UFm HV OD LED controller with OE
Open Drain Constant Current		
Controller (PWM/Ch, 57 mA/ 40 V)	+ PCA9952	16-channel I²C Fm+ HV CS LED controller with OE
	+ PCA9955	16-channel I²C Fm+ HV CS LED controller
Controller (PWM/Ch, 57 mA/ 20 V)	+ PCA9955B	16-channel I²C Fm+ 20 V CS LED controller
	+ PCA9745B	16-channel SPI 20 V CS LED controller
	PCA9956B	24-channel I²C Fm+ 20 V CS LED controller

Real-time Clocks

Low-power	PCF2123	SPI lower power RTC with alarm,timer, and interrupt
	PCF85063	I²C Fm/Tiny RTC with 30s, 60s interrupt
	PCF85063A/B	I²C Fm or SPI/Tiny RTC with alarm and 30s, 60s interrupt
	PCF85263A	I²C Fm/Tiny RTC with alarms, time stamp and battery back-up +1-byte RAM
	PCF85363A	I²C Fm/Tiny RTC with alarms, time stamp and battery back-up switch + 64-byte RAM
	PCF8523	I²C Fm+ ultra-low-power RTC with loss of main power detection and automatic battery back-up
	PCF8563	I²C Fm low-power clock/calendar
Automotive high temperature	+PCA21125	SPI lower power RTC with alarm, timer, and interrupt to 125 °C
	+PCA85063A	I²C Fm/Tiny RTC with Alarm and 30s, 60s interrupt -40 °C to 105 °C
	+PCA8565	I²C Fm high-temperature clock/calendar -40 to +125 °C
	+PCA2129	I²C Fm or SPI high-accuracy, low voltage RTC with time stamp -40 °C to +85 °C
Temperature compensated high accuracy	PCF2127(A)	I²C Fm or SPI high-accuracy, low-voltage RTC with time stamp and 512 x 8 RAM
	PCF2129(A)	I²C Fm or SPI high-accuracy, low voltage RTC with time stamp

Muxes and Switches

2-channel	PCA9540B	2-channel I²C Fm mux
	PCA9542A	2-channel I²C Fm mux with INT
	PCA9543A/B	2-channel I²C Fm switch with INT and RST (B Alternative address)
2-to-1 demux	PCA9541A/01	2 to 1 I²C Fm demux with INT and RST (channel 0 default)
	PCA9541A/03	2 to 1 I²C Fm demux with INT and RST (no channel default)
4-channel	PCA9544A	4-channel I²C Fm mux with INT
	PCA9545A/B/C	4-channel I²C Fm switch with INT and RST (B and C alternative address)
	PCA9546A	4-channel I²C Fm switch with RST
	PCA9846	4-channel ULV VLT I²C Fm+ switch with RST
	PCA9849	4-channel ULV VLT I²C Fm+ mux with RST
8-channel	PCA9547	8-channel I²C Fm mux with RST (channel 0 default)
	PCA9847	8-channel ULV VLT I²C Fm+ mux with RST
	PCA9548A	8-channel I²C Fm switch with RST
	PCA9848	8-channel ULV VLT I²C Fm+ switch with RST
Arbiter	PCA9641	2 masters to shared slave I²C Fm+ arbiter with INT and RST (no channels selected at default)

Bus Buffers

Incremental offset	PCA9510A	I²C Fm incremental offset hot-swap bus buffer (no RTA)
	PCA9511A	I²C Fm incremental offset hot swap-bus buffer
	PCA9512A	I²C Fm incremental offset VLT hot swap bus buffe
	PCA9513A	I²C Fm incremental offset hot-swap bus buffer (92 µA CS)
	PCA9514A	I²C Fm incremental offset hot-swap bus buffer (0.8 V offset)
Differential driver with static offset (1 side)	PCA9614	I²C Fm+ VLT differential (4-wire) bus buffer
	PCA9615	I²C Fm+ VLT differential (4-wire) hot-swap bus buffer
	PCA9616	I²C Fm+ 0.8 V LV VLT differential (4-wire) hot-swap bus buffer with INT (2-wire)
Amplifier	P82B715	I²C Fm HV bus extender
No offset	PCA9646	4-channel I²C Fm+ no offset buffer/switch with RST
Static offset (1 side)	P82B96	I²C Fm HV bus buffer
	PCA9507	I²C Fm VLT DDC buffer with accelerator
	PCA9508	I²C Fm VLT hot-swap bus repeater
	PCA9509	I²C Fm 1.0 V VLV VLT bus buffer with current source
	PCA9509A	I²C Fm 0.8 V ULV VLT bus buffer with current source
	PCA9509P	I²C Fm 0.8 V ULV VLT bus buffer
	PCA9517A	I²C Fm 0.9 V ULV VLT bus repeater
	PCA9519	4-channel version of PCA9509
	PCA9527	I²C Fm DDC VLT buffer with accelerator and CEC
	PCA9600	I²C Fm+ HV bus buffer
	PCA9601	I²C Fm+ HV bus buffer with stronger 15 mA local side drive to support multiple Fm+ slaves
	PCA9617A	I²C Fm+ 0.8 V ULV VLT bus repeater
Static offset (All sides)	PCA9515A	I²C Fm bus repeater
	PCA9516A	I²C Fm 5-channel hub
	PCA9518A	I²C Fm expandable 5-channel hub

Level Translators

FET No Direction Pin	NVT2001	1-bit I²C Fm+ VLT
	NVT2002	2-bit I²C Fm+ VLT
	PCA9306	Dual I²C/SMBus Fm+ VLT
	NVT2003	3-bit I²C Fm+ VLT for two power supplies in same bus application
	NVT2006	6-bit I²C Fm+ VLT
	NVT2008	8-bit I²C Fm+ VLT
	NVT2010	10-bit I²C Fm+ VLT
	GTL2000	22-bit I²C Fm+ VLT
FET One Shot No Direction Pin	NTS0101	1-bit I²C Fm+ VLT
	NTS0102	2-bit I²C Fm+ VLT
	NTS0104	4-bit I²C Fm+ VLT
Buffer One Shot No Direction Pin	NTB0101	1-bit SPI VLT
	NTB0102	2-bit SPI VLT
	NTB0104	4-bit SPI VLT

Code	Description
Sm	100 kHz standard-mode I 2C bus
Fm	400 kHz fast-mode I²C bus
Fm+	1 MHz fast-mode plus I²C bus
HSm	3.4 MHz high-speed mode I²C bus
UFm	5 MHz ultra-fast mode I²C 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
SPI	Serial periphered interface

LCD Drivers		
Segment driver	+PCA8561A/B	I²C Fm or SPI 72-segment low-power LCD driver in HVQFN32 package
	PCF8566	I²C Fm 96-segment low-power LCD driver in VSO40 package
	+PCA/ PCF85162	I²C Fm 128-segment LCD driver in TSSOP48 package
	+PCA85262	I²C Fm 128-segment LCD driver with higher frame frequency in TSSOP48 package
	+PCA/ PCF8551A/B	I²C Fm or SPI 144-segment low-power LCD driver with programmable frame frequency in TSSOP48 package
	+PCA/PCE/ PCF85176	I²C Fm 160-segment LCD driver in TSSOP56 or TQFP64 package
	+PCA85276	I²C Fm 160-segment LCD driver with higher frame frequency in TSSOP56 package
	+PCA/ PCF8553A/B	I²C Fm or SPI 160-segment low-power LCD driver with programmable frame frequency in TSSOP56 package
	+PCA8546A/B	I²C Fm or SPI 176-segment LCD driver with programmable frame frequency in TSSOP56 package
	+PCA8547A/B	I²C Fm or SPI 176-segment LCD driver with programmable frame frequency, charge pump, VLCD temperature compensation in TQFP64 package
	+PCA/ PCF85134	I²C Fm 240-segment LCD driver in LQFP80 package
	+PCA8543	I²C Fm 240-segment LCD driver with programmable frame frequency, charge pump, VLCD temperature compensation in LQFP80 package
	PCF8545A/B	I²C Fm orSPI 320-segment LCD driver with programmable frame frequency in TSSOP56 package
	+PCA/ PCF8536A/B	I²C Fm or SPI 320-segment LCD driver with programmable frame frequency and LED backlight PWM control in TSSOP56 package
	+PCA/ PCF8537A/B	I²C Fm or SPI 352-segment LCD driver with programmableframe frequency, charge pump, VLCD temperature compensation in TQFP64 package
	+PCA9620	I²C Fm 480-segment LCD driver with programmable frame frequency, charge pump, VLCD temperature compensation in LQFP80 package
	+PCA/ PCF8576D/E	I²C Fm 160-segment COG LCD driver
	+PCA8576F	I²C Fm 160-segment COG LCD driver with higher frame frequency and higher VLCD
	+PCA/PCE/ PCF85133	I²C Fm 320-segment COG LCD driver with selectable frame frequency
	+PCA85233	I²C Fm 320-segment COG LCD driver with higher selectable frame frequency
	+PCA85232	I²C Fm 640-segment COG LCD driver with higher programmable frame frequency
Character drivers	PCF2119	I²C Fm or parallel bus 2 x 16 characters + 160-icon COG LCD driver with charge pump,VLCD temperature compensation
	PCF21219	I²C Fm or parallel bus 2 x 16 characters + 160-icon COG LCD driver with higher frame frequency, charge pump, VLCD emperature compensation
Graphic driver	PCF8531	I²C Fm 34 x 128-pixel COG LCD driver with charge pump, VLCD temperature compensation
	PCF8578	I²C Sm 8 x 32 dot matrix LCD driver
	PCF8579	I²C Sm, up to 40,960 dots when combined with 32x PCF3278

A/D-D/A Converters		
8-bit ADC	PCF8591	I²C Fm 4-channel ADC and 1-channel DAC

DIP Switch		
2-kbit EE	PCA9500	I²C Fm 256 x 8-bit EEPROM
	PCA9501	I²C Fm 256 x 8-bit EEPROM
DIP switch	PCA8550	I²C Fm 4-bit 1-of-2 mux & 5-bit EEPROM
	PCA9559	I²C Fm 5-bit mux/1-bit latch & 6-bit EEPROM
	PCA9560	I²C Fm 2 x 5-bit mux/1-bit latch & 6-bit EEPROM
	PCA9561	I²C Fm 4 x 6-bit mux & 6-bit EEPROM

Bridge and Bus Controllers		
Bridge	SC16IS740	I²C Fm/SPI-to-UART bridge with IrDA
	SC16IS741	I²C Fm/SPI-to-UART bridge with IrDA
	SC16IS750	I²C Fm/SPI-to-UART bridge with IrDA and GPIO
	SC16IS752	I²C Fm/SPI-to-DUART bridge with IrDA and GPIO
	SC16IS760	I²C Fm/SPI-to-UART bridge with IrDA and GPIO
	SC16IS762	I²C Fm/SPI-to-DUART bridge with IrDA and GPIO
	SC18IM700/S8	UART-to-I²C Fm master bridge with GPIO
	SC18IS600/S8	SPI-to-I²C Fm master bridge, 4 M with GPIO
	SC18IS602B/S8	I²C Fm slave-to-SPI master bridge
Controller	PCF8584	I²C Sm bus controller with bus snoop
	PCA9564	I²C Fm bus controller
	PCA9663	3-channel I²C Fm+ bus controller with 4 KB buffer per channel
	PCA9665	I²C Fm+ bus controller with 68-byte buffer
	PCA9665A	I²C Fm+ bus controller with 68-byte buffer and restart condition fix
	PCU9669	1-channel Fm+ and 2-channel UFm bus controller with 4 KB buffer per channel

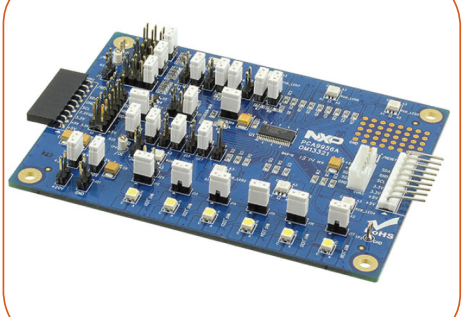
Level Transceivers		
GTL to LVTTL Translators with Direction Pin	GTL2005	4-bit GTL/GTL+ to LVTTL/TTL bi-directional non-latched translator
	GTL2006	13-bit GTL–/GTL/GTL+ to LVTTL translator
	GTL2008	12-bit GTL to LVTTL translator high-impedance LVTTL and GTL outputs
	GTL2012	2-bit LVTTL to GTL transceiver
	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

Bridges	OM6270	SPI/I²C to UART bridge demo board (SC16IS750 / SC16IS760)
	OM6271	SPI to I²C master bridge demo board (SC18IS600/58)
	OM6272	UART to I²C master bridge demo board (SC18IM700/58)
	OM6273	SPI/I²C to dual UART/IRDA/GPIO demo board (SC16IS752/ SC16IS762)
	OM6274	I²C to SPI master bridge demo board (SC18IS602B/58)
Fm+ universal	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
	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
LCD display	OM13500	PCA9620 demo board
	OM13500A	PCF8537 and PCA8537 demo board
RTC	OM11059A	PCF85063TP & PCF85063ATL evaluation board
	OM13510	PCF85263 evaluation board
	OM13511	PCF8523 evaluation board
	OM13513	PCF2127 & PCF2129AT evaluation board
	OM13514	PCF85363 evaluation board
	OM13515	PCF85063AT evaluation board

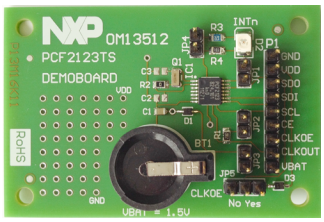
Misc.	OM13523	PCA9616PW demo board
	OM6277	PCA9564 evaluation board
Voltage-level translator	OM13315	NVT2001GM demo board, single-channel bi-directional voltage-level translator
	OM13317	NVT2008PW demo board, 8-channel bi-directional voltage-level translator
	OM13318	NVT2002DP demo board, dual-channel bi-directional voltage-level 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
LED controller	OM13269	PCA9632 LED 4-channel demo board
	OM13321	PCA9956A LED dimmer 24-channel constant current demo board I²C Fm+
	OM13327	PCA9634 LED 8-channel demo board
	OM13329	PCA9952 demo board, LED dimmer 16-channel constant current demo board I²C Fm+ (with output enable)
	OM13330	PCA9955 demo board, LED dimmer 16-channel constant current demo board I²C Fm+
	OM13332	PCA9685 demo board, 16-channel voltage source with 12-bit PWM demo board I²C Fm+
	OM13333	PCA9635 demo board, 16-channel voltage source with 8-bit PWM demo board I²C Fm+
	OM13483	PCA9955A/B 16-channel I²C Fm+ constant current LED driver demo board
	OM13528	PCA9532 16-channel LED dimmer voltage switch demo board
	OM13524	PCA9745B SPI 16-CH LED demo board

OM13318
NVT2002DP LED demo board

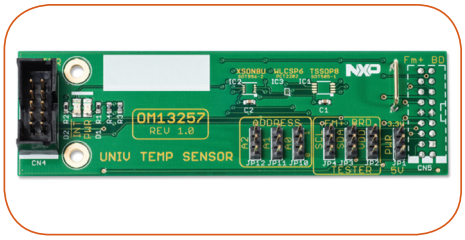


OM13321
PCA9956A 24, Non-Isolated Output LED Driver demo board

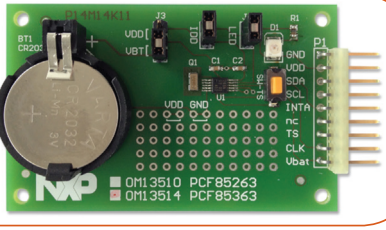
OM13315
NVT2001GM LED demo board



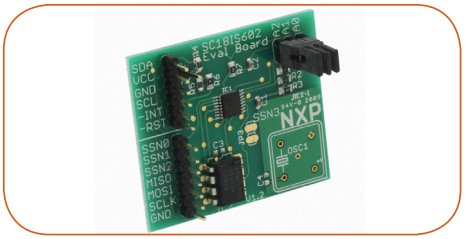
OM13512
PCF2123 SPI-bus RTC demo board



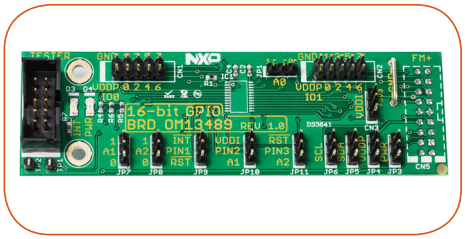
OM13257
Temp sensor daughter board



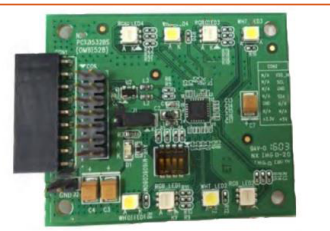
OM13514
PCF85363A I²C bus RTC PCF85263/363 interface



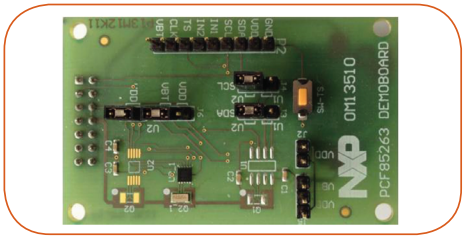
OM6274
SC18IS602B/S8 I²C to SPI Master Interface Evaluation Board



OM13489
Universal 16-bit GPIO daughter card



OM13528
PCA9532BS 16-CH LED demo board



OM13515UL
PCF85063A RTC Timing demo board

Our I²C 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 I²C Fm+ development boards and daughter cards make it easy to program new peripherals and are a quick way to learn about the I²C bus protocol.

www.nxp.com/I²C

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