

I²C peripheral selection guide

GENERAL PURPOSE ICs

LCD Drivers

OM4085	Universal LCD driver for low multiplex rates
PCF211XC family	LCD drivers
PCF2113	LCD controller/drivers
PCF2114X/16X	LCD controller/drivers
PCF2116	LCD controller/driver; 2 line x 24 character, 4 line x 12 character display
PCF8558	Universal LCD driver for small graphic panels
PCF8566	96-segment LCD driver; 1:1 – 1:4 Mux rates
PCF8568	LCD row driver for dot matrix displays
PCF8569	LCD Column driver for dot matrix displays
PCF8576	160-segment LCD driver 1:1 – 1:4 Mux rates
PCF8577C	64-segment LCD driver; 1:1 – 1:2 Mux Rates
PCF8578/79	Row/column LCD dot-matrix driver/display 1:8 – 1:32 Mux rates

LED Drivers

SAA1064	4-digit LED driver
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I/O Expanders

P82B715	I ² C bus extender
PCF8574/A	8-bit remote I/O port (I ² C-bus to parallel converter)
PCF8584	8-bit parallel to I ² C converter
SAA1064	4-digit LED driver with I ² C-bus interface
SAA1300	5-bit high-current driver

Data Converters

PCF8591	4-channel, 8-bit Mux ADC + one DAC
TDA8442	Quad 6-bit DAC
TDA8444	Octal 6-bit DAC

Memory

PCA8581	128-byte EEPROM
PCB2421	1K dual mode serial EEPROM
PCF85116-3	2048 x 8-bit CMOS EEPROMs with I ² C-bus interface
PCF8522E	256 x 8-bit CMOS EEPROM with I ² C-bus interface
PCF8524	512 x 8-bit CMOS EEPROM with I ² C-bus interface
PCF8570C	256-byte static RAM
PCF8582	256-byte EEPROM
PCF8583	256-byte RAM/clock/calendar
PCF8594	512-byte EEPROM
PCF8598	1K-byte EEPROM

Clocks/Calendars

PCF8573	Clock/calendar
PCF8583	Clock/calendar/256-byte RAM
PCF8593	Low power clock calendar

68000-Based CMOS Microcontrollers

68070	68000 CPU/MMU/UART/DMA/timer
93CXXX	UST/I ² C/34k ROM/512 RAM

80C51-Based CMOS Microcontrollers*

83CL267/167	12k ROM, 256 RAM OSD
83CL268/168	12k ROM, 256 RAM OSD
8XCL410	4k ROM/128 RAM, low power
8XC528	32k ROM/512 RAM, T2, WD
8XC542	4k ROM/128 RAM, ACCESS.bus
8XC552	256-byte RAM/8k ROM/ADC/UART/PWM
8XCL580	6k ROM, 256 RAM, low power
8XC652	256-byte RAM/8k ROM, UART
8XC654	256-byte RAM/16kROM, UART
8XC751	64-byte RAM/2k ROM
8XC752	64-byte RAM/2k ROM, ADC/PWM

8048 Instruction-Set Based CMOS Microcontrollers

PCD3311C/12C	DTMF/modem/musical-tone generators
PCF84C00	256-byte RAM/bond-out version for prototype development
PCF84C21	64-byte RAM/2k ROM
PCF84C41	128-byte RAM/2k ROM
PCF84C81	256-byte RAM/8k ROM
PCF84C85	256-byte RAM/8k ROM/ Extended I/O

MULTIMEDIA ICs

Desktop Videos

SAA7151B	8-bit digital multistandard TV decoder
SAA7152	Digital comb filter
SAA7157	Clock signal generation circuit for digital video systems; for use with SAA71xx
SAA7165	Video enhancement and D/A processor including digital CTI
SAA7186	Digital video scaler
SAA7191	Digital multistandard TV decoder, square pixel
SAA7191B	SAA7191 variant
SAA7192A	Digital colour space converter with independent LHT
SAA7199B	digital multistandard encoder
SAA9051	Digital multistandard (PAL/NTSC) colour decoder
SAA9056	Digital SECAM colour decoder
SAA9057B	Clock signal generation circuit for digital video systems; for use with SAA90xx
SAA9065	Video enhancement and D/A processor
TDA4680	Video processor
TDA8440	Video/audio switch

*. Also available with extended temperature ranges.

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Video/Radio/Audio

SAA4700	VPS dataline processor
SA5751	Audio Processor/Filter Controller
SAA5243	Computer controlled text circuit
SAA5246	Computer controlled text circuit
SAA5248	Integrated teletext decoder and VPS slicer
SAA5252	Closed caption
SAA7158	Line frequency processor and DAC circuit
SAA7194	Digital video decoder/scaler
SAA9042	Digital video teletext (DVTB) processor
SAB3035/36/37	Digital tuning circuits for computer-controlled TV
TDA1551	2 X 22W BTL audio power amp
TDA1551Q	2 X 22W BTL audio power amp with diagnostic
TDA4670	Picture signal improvement circuit
TDA4671	Picture signal improvement circuit
TDA4681	Video processor with automatic cut-off and white level control
TDA4685	Video processor
TDA4686	Video processor (100 Hz)
TDA4687	Video processor
TDA8415	TV/VCR stereo/dual sound processor
TDA8416	TV/VCR stereo/dual sound processor
TDA8417	TV/VCR stereo/dual sound processor
TDA8421	Audio processor with a loudspeaker channel and a headphone channel
TDA8425	Audio processor with a loudspeaker channel only
TDA8426	Hi-fi stereo audio processor
TDA8433	TV deflection processor
TDA8540	4x4 video switch matrix

TDA9140	Alignment-free multistandard decoder
TEA6320	4 input Tone/volume controller with fader control
TEA6330	Tone/volume controller
TSA6060	A/M Frequency Synthesizer for RDS.
TDA8433	Deflection processor
TDA8442	Interface for color decoders
TDA8443/A	YUV/RGB matrix switch
TDA8461	PAL/NTSC color decoder and RGB processor
TDA8466	PAL/NTSC color decoder and RGB processor
TDA9150	Deflection processor
TDA9860	Sound controller w/ 4 inputs
TEA6100	FM/IF and digital tuning IC for computer-controlled radio
TEA6300	Sound fader control and preamplifier/source selector for car radio
TSA5511/12/14	PLL frequency synthesizer for TV
TSA6057	PLL frequency synthesizer for radio

Telecom

NE5750/51	Audio processor pair
NE5752	3 V 5750 variant (samples Q4 92)
NE5753	3 V 5751 variant (samples Q4 92)
PCD3311/12	Tone generator (DTMF/modem/musical)
PCD3341	Advanced 10 to 110-number repertory dialer with LCD control
PCD4440	Analog voice scrambler/descrambler
UMA1000T	Data processor for mobile telephones
UMA1014T	1GHz frequency synthesizer for mobile telephones
UMF1009	Frequency synthesizer

FOR FURTHER INFORMATION ON THESE DEVICES, REFER TO
I²C-PERIPHERALS FOR MICROCONTROLLERS DATA HANDBOOK,
 AVAILABLE FROM YOUR LOCAL PHILIPS SEMICONDUCTORS SALES OFFICE.