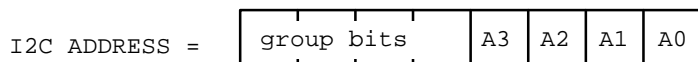




This document contains ONLY Philips Semiconductors devices. For more information see IC12.

- Notes:
- Bits indicated as Ax are programmable by hardware
 - Bits indicated as X are don't care
 - Bits indicated as ? are unknown
 - NA means not allocated address

An I2C address is 8 bits long. It consists of two nibbles, the 4 group bits and the 4 device specific bits:



A3	A2	A1	A0	TYPE NUMBER	DESCRIPTION
=====					
GROUP 0 (0000)					
0	0	0	0		General call command
0	0	0	1		Start byte for low speed mode
0	0	1	0/1		PBUS/CBUS address
0	1	0	0/1		Address for different bus format
2nd byte after a general call (0000 0000)					
0	0	1	1		CE MEC : Dig. Video Cassete group (271-275)

GROUP 2 (0010)		FEATURE TV			
0	0	0	0/1	SAA5240A	625 line teletext decoder; English/German/Swedish
0	0	1	0/1	SAA5240B	625 line teletext decoder; French/Italian/German
0	0	1	0/1	SAA5240P/D	625 line teletext decoder; Spanish
0	0	1	0/1	SAA5240P/F	625 line teletext decoder; Hebrew
0	0	1	0/1	SAA5241A	625 line teletext decoder; English/German/Swedish
0	0	1	0/1	SAA5241B	625 line teletext decoder; French/Italian/German
0	0	1	0/1	SAA5243P/E	Enh. Comp. Contr. Teletext, West European Lang.
0	0	1	0/1	SAA5243P/H	Enh. Comp. Contr. Teletext, East European Lang.
0	0	1	0/1	SAA5243P/K	Enh. Comp. Contr. Teletext, Arabic and English.
0	0	1	0/1	SAA5243P/L	Enh. Comp. Contr. Teletext, Arabic and Hebrew.
0	0	1	0/1	SAA5244	ITV1.1; Integrated VIP, teletext control and memory
0	0	1	0/1	SAA5245	USCCT 525 line teletext decoder/controller
0	0	1	0/1	SAA5246	ITV1.0; Integrated VIP and teletext controller
0	0	1	0/1	SAA9041	DVBT Digital Video Text - Backend
0	0	A0	1	SAA4700T	Data line 16 decoder for VPS
0	1	0	0/1	SAA5240P/C	625 line text decoder; Arabic
0	1	0	0/1	SAB9070	PIP8 controller
0	A1	A0	1	SAF1134P	Data line 16 decoder for VPS (gate array)
0	A1	A0	1	SAF1135P	Data line 16 decoder for VPS (cell array)
1	0	0	0/1	SAA5252	Litod - line 21 acquisition and display
1	A1	A0	0/1	SAA9020	FMC; Field memory controller

GROUP 3 (0011)		VAV, DSP PCM-DECODER			
0	0	A0	0/1	SAA7250	DASP; general purpose dig. audio signal processor
0	A1	A0	0/1	PCB5020	Dig. audio signal proc. for car radio incl. ROM
0	A1	A0	0/1	PCB5021	Dig. audio signal proc. for car radio excl. ROM
0	A1	A0	0/1	PCB5032	ADPCM codec for cordless telephone
1	0	0	0/1	SAA1136	PCM-audio IDENT-WORD interface (IDI)
1	1	A0	0/1	SAA1770	D2MAC decoder for satellite and cable TV
1	A1	A0	0/1	PCF1810	8 x 8 crosspoint matrix analogue switch

GROUP 4 (0100)		I/O			
0	0	A0	0/1	SAA1137	DP8 PCM audio proc. for V8 VTR
0	0	A0	0/1	PCD4430	Programmable tone detector and DTMF generator
0	0	A0	0/1	SAA7194	Digital color decoder and scaler for desktop video
0	1	A0	0/1	PCA1070	PACT telephone progr. CMOS speech/transm. IC
1	0	A0	0	PCD3311	DTMF generator



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1	0	A0	0	PCD3312	DTMF generator
1	1	0	1	SAB3028	Remote control RC-5 transcoder
1	1	1	0/1	PCD5002	POCSAG pager decoder
A2	A1	A0	0/1	PCF8574	Remote 8 bit I/O expander
A2	A1	A0	0	TDA8444	Octuple six bits general purpose DACs
<hr/>					
GROUP 7 (0111)		DISPLAY			
0	0	A0	0	PCF8576	40x4 segm. quadruple LCD display driver
0	1	0	0	PCF8577	32/64 segment LCD display driver
0	1	1	0	PCF8577A	32/64 segment LCD display driver
0	A1	A0	0/1	SAA1064	16 segm. static/32 segm. dynamic LED driver
1	0	A0	0	PCF8578	LCD row/column driver for dot matrix graphics disp.
1	0	A0	0	PCF8579	LCD column driver for dot matrix graphics disp.
1	1	A0	0	PCF8566	24x4 segm. quadruple LCD display driver
1	0	A0	0/1	PCF8568	LCD row driver for dot matrix displays
1	0	A0	0/1	PCF8569	LCD column driver for dot matrix graphic displays
A2	A1	A0	0/1	PCF8574A	Remote 8 bit I/O expander
<hr/>					
GROUP 8 (1000)		TV SIGNAL PROCESSING 1st audio/ 2nd video			
0	0	0	0	TEA6320	SOFAC for carradio
0	0	0	0	TEA6330	Sound fader contr. with provisions for equalizer
0	0	1	0	TDA8424	LS audio processor (reduced TDA8425)
0	0	1	0	TDA8425	LS sound output processor
0	0	1	0	TDA8426	LS sound output processor
0	0	A0	0	TDA8420	LS and HP sound output processor
0	0	A0	0	TDA8421	LS and HP sound output processor
0	0	A0	0	TDA9860	LS and HP sound, 3 ip 3 op
0	0	A0	0	NE/SA5751	Audio processor system for RF communication
0	1	0	0/1	TDA8405	Stereo/dual language decoder with 2 ext. inputs
0	1	0	0/1	TDA8415	Stereo/dual language decoder with 2 ext. inputs
0	1	0	0/1	TDA8416	Stereo/dual language decoder with 3 ext. inputs
0	1	0	0/1	TDA9840	Stereo decoder with 2 AF inputs adjust
0	1	0	0/1	TDA9840T	Stereo processor
0	1	0	0/1	TDA8417	Stereo/dual language decoder with 1 ext. input
0	1	A0	0	TDA6360	Five band equalizer for carradio, also 1 1 A0
0	1	A0	0/1	TDA8480	RGB- y correction proc. for LCD and CRT
1	0	0	0	TDA8442	Color decoder interface
1	0	0	0	TDA4670	Picture signal improvement circuit
1	0	0	0/1	TDA4680	RGB processor
1	0	0	0/1	TDA8363	Single Chip NTSC decoder
1	A1	0	0	TDA7189	Digital video color encoder for MPEG-decoded video
1	A1	1	0/1	TDA9160	Multistandard color decoder, syn proc., deflection
1	A1	1	0/1	TDA9162	Msd and sync., deflection proc.
1	0	1	0/1	TDA9145	Multi standard color decoder (9160 derivate)
1	0	1	0/1	TDA9161	Msd and sync., deflection PSI proc.
1	0	A0	0/1	TDA8461	PAL/NTSC color decoder
1	0	A0	0/1	TDA8466	BIMOS PAL/NTSC color decoder with extra RGB switch
1	1	0	0	TDA8370	High/medium perf. sync. processor
1	1	0	0/1	TDA9150	Deflection processor
1	A1	1	0/1	SAA9050	DMSD; dig. PAL/NTSC color decoder
1	A1	1	0/1	SAA9053	DND; dig. NTSC color decoder
1	A1	1	0/1	SAA9051	S-DMSD; dig. PAL/NTSC color decoder
1	A1	1	0	SAA9055	DSD; dig. SECAM color decoder; high level
1	A1	1	0/1	SAA7151	Dig. multi-stdrd col. dec. PAL/NTSC/SECAM,8bit,S-VHS
1	A1	1	0/1	SAA7191	Ph. RHW
1	A1	1	0/1	TDA9140	Multistandard color decoder and sync. processor
1	A1	1	0/1	TDA9141	Msd and sync., processor.
1	1	A0	0/1	TDA8432	Sync. controller and deflection processor
1	1	A0	0/1	TDA8433	BIMOS sync. controller and deflection processor
1	1	A0	0/1	TEA6360	5 band equalizer, see alloc165 (A2=0)
<hr/>					
GROUP 9 (1001)		CVBS - SWITCHES, ADC, DAC			
A2	A1	A0	0	TDA8440	Dual peri-TV plug switch; A2 A1 A0 # 1 1 1
A2	A1	A0	0	TDA8540	Video switch 4x4, 2 TTL outputs; A2 A1 A0 # 0 0 0
A2	A1	A0	0/1	PCF8591	4 channel ADC and 1 channel DAC (8 bits)



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GROUP A (1010)				MEMORIES	
0	0	A0	0/1	PCF8583	2k CMOS memory, clock, calendar, alarm, BCD counter
A2	A1	A0	0/1	PCF8570	2k static CMOS memory
A2	A1	A0	0/1	PCF8571	1k static CMOS memory
A2	A1	A0	0/1	PCF8580	2k serial CMOS EEPROM
A2	A1	A0	0/1	PCF8581	1k serial CMOS EEPROM
A2	A1	A0	0/1	PCF8582	2k serial EEPROM memory
A2	A1	A0	0/1	PCF8582A	2k serial EEPROM memory
0	0	1	0/1	PCF8593	Low power clock calendar
A2	A1	P	0/1	PCx8594	4k serial EEPROM memory (P = 256 bytes page)
A2	P	P	0/1	PCx8598	8k serial EEPROM memory (P = 256 bytes page)

GROUP B (1011)				AUDIO/VIDEO	
0	0	A0	0/1	SAA7199	Dig. color encoder, conv.RGB>YUV matrix
0	0	1	0/1	SAA7152	Dig. comb filter
0	1	0	0/1	TDA8416	Stereo/dual language decoder with 3 ext. inputs 2nd address in group 8
1	0	0	0	TDA2518	CE VHS-recorder FM sound cricuit, noise red., volume
1	A1	0	0/1	SAA7186	Video datapath IC with line memory
1	0	1	0	PCA8510	Standalone OSD IC
1	0	1	0	PCA8516	Standalone OSD IC
A2	A1	A0	0/1	PCF8570C	2k static CMOS memory
1	1	1	1	SAA9065	VEDA, video enhancement D/A convertor

GROUP C (1100)				TUNING	
0	0	1	0/1	TEA6000	MUSTI1; FM IF and search tuning interface
0	0	1	0/1	TEA6100	MUSTI2; FM IF with quad. detect./tuning interface
0	1	A0	0/1	TSA6057	150MHz PLL frequency synthesizer for radio
0	1	A0	0/1	PCA8516	
0	1	A0	0	TSA6060	150MHz PLL with in-lock detector
0	1	A0	0	TSA6061	150MHz PLL with in-lock det. and IF-counter
0	A1	A0	0/1	TSA5510	1.2GHz PLL frequency synthesizer without AFC ADC
0	A1	A0	0/1	TSA5511	1.2GHz PLL frequency synthesizer with AFC ADC
0	A1	A0	0/1	TSA5512	1.2GHz PLL freq. synth. with AFC and 8 o.c. outp.
0	A1	A0	0/1	TSA5514	1.2GHz PLL freq. synth. with ADC, o.c. outp.
0	A1	A0	0/1	TSA5519	1.3GHz PLL freq. synth., ADC
0	A1	A0	0/1	SAB3035	CITAC; FLL freq. synth. & analogue controller
0	A1	A0	0/1	SAB3036	CITAC; FLL freq. synth.
0	A1	A0	0/1	SAB3037	CITAC; FLL freq. synth. & analogue controller
0	A1	A0	0/1	UMA1010	RF freq. synth. for mobile radio from 30 to 1 GHz
0	A1	A0	0/1	UMA1009	RF freq. synth. for mobile radio VHF/UHF

GROUP D (1101)				CLOCK/CAL. -YUV RGB - POWERAUDIO, SATELLITE	
0	A1	A0	0/1	PCF8573	Clock calendar circuit
1	0	0	0/1	TDA1551A	BTL carradio amplifier 2 x 20 Watt
1	0	0	0/1	TDA1551B	BTL carradio amplifier 2 x 20 Watt
1	1	A0	0	PCD4440	Analogue voice scrambler for mobile telephone
1	A1	A0	0/1	UMA1000T	DPROC data processor for cellular radio
A2	A1	A0	0	TDA8443	YUV/RGB matrix and switch for CCTV signal levels A2 A1 A0 # 0 0 0
A2	A1	A0	0	TDA8443A	YUV/RGB matrix and switch for standars decoder signal levels A2 A1 A0 # 0 0 0

GROUP E (1110)				VCR	
0	0	A0	0	SAA7192	Dig. space conv., RGB matrix with look-up tables

GROUP F (1111)					
1	1	1	0/1		Reserved for extentions
0	A9	A8	0/1		10 bit I2C-address

GROUP 0 TO F (XXXX)					
X	X	X	X	PCF8584	IIC-bus interface building block



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REFERENCES:

DATA HANDBOOK IC12: I2C PERIPHERALS 9397 750 00306
THE I2C-BUS AND HOW TO USE IT (INCLUDING SPECIFICATIONS) 9398 393 40011

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