

JUMPERS

JMP3 JMP6 JMP14 JMP19-21	17-016-0077-00	Jumper wire Dia. 0.5mm L=52.0mm
JMP34 JMP41-42		
JMP1-2 JMP4-5 JMP7-13 JMP15-18	17-016-0080-90	Jumper Wire Dia. 0.5mm For L Smaller than 14mm
JMP22-33 JMP35-40 JMP43-44		

VIDEO 6 BOARD**PCB ASSEMBLY****50-931-0765-90****T765/T775/T785 VIDEO-6 ASSY****CAPACITORS**

C9309 C9307 C9315 C9320-9321	03-002-0073-00	E CAP 22uF/16VP=1.5 D=4.2 H=7.6
C9302-9305 C9314	03-002-0140-00	CAP ELEC SS 2.2uF 50V 20% 85C RAD P=1.5

FIBRE OPTIC

M9301	04-009-0004-90	FIBRE OPTIC RECEIVING UNIT 700nm JSR1164-D
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JACKS

M9302	15-002-0028-90	PHONE JACK 1 BLACK PCB MOUNT 3.5mm RIGHT
M9308	15-002-0029-90	PHONE JACK D6.3 1 PCB MOUNT GOLD
M9305	15-003-0048-90	RCA JACK 1 YELLOW PCB MOUNT GOLD RCA-105BL1-13Z1
M9306	15-003-0049-90	RCA JACK 1 RED PCB MOUNT GOLD RCA-105AL1-14Z1
M9307	15-003-0050-90	RCA JACK 1 WHITE PCB MOUNT GOLD RCA-105AL1-12Z1
M9304	15-017-0001-90	DIN JACK 1 BLACK PCB MOUNT MD-113

SMD IC

U9301	01-014-0041-00	IC AUDIO LOW NOISE OP-AMP SMD NJM5532M
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SMD RESISTORS

R9333	02-007-0042-00	RES SMD 1K OHM 0603 5%
R9301	02-007-0134-00	RES SMD 4.7 OHM 0805 5%
R9307 R9310 R9311 R9330-9332	02-007-0136-00	RES SMD 33K OHM 0603 5%
R9320 R9323 R9327	02-007-0139-00	RES SMD 4.7K OHM 0603 5%
R9313	02-007-0143-00	RES SMD 18K OHM 0603 5%
R9319 R9326	02-007-0157-00	RES SMD 10K OHM 0603 1%
R9317	02-007-0160-00	RES SMD 43K OHM 0603 5%
R9325 R9324	02-007-0267-00	RES SMD 100K OHM 5% 1/16W 0603
R9305 R9308 R9328 R9329	02-007-0288-00	RES SMD 0 OHM 5% 1/16W 0603
R9314,R9316	02-007-0292-00	RES SMD 2.2K OHM 1% 1/16W 0603
R9321-9322	02-007-0294-00	RES SMD 470 OHM 5% 1/16W 0603
R9318	02-007-0319-00	RES SMD 300 OHM 5% 1/16W 0603
R9302-9304	02-007-0357-00	RES SMD 75 OHM 5% 1/16W 0603

SMD CAPACITORS

C9301 C9316-9317 C9323-9324	03-009-0075-00	CAP CER SMD 0.1uF 50V 20% Y5V 0603
C9306 C9308 C9318-9319	03-009-0111-00	CAP CER SMD 100pF 50V 10% X7R 0603
C9310-9311	03-009-0112-00	CAP CER SMD 1nF 50V 10% X7R 0603

C9326	03-009-0113-00	CAP CER SMD 10nF 50V 10% X7R 0603
C9313	03-009-0114-00	CAP CER SMD 220pF 50V 10% X7R 0603
C9322	03-009-0116-00	CAP CER SMD 33pF 50V 10% X7R 0603
C9325	03-009-0127-00	CAP CER SMD 1uF 16V +80/-20% Y5V 0805
<i>SMD TRANSISTORS</i>		
Q9303-9304 Q9305	05-004-0017-00	SMD Transistor 2SC4695 NPN SOT-23
Q9301-9302	05-004-0037-90	TRANSISTOR SS PNP HFE 30 250MHz SPT DTA114EKAT146
<i>JUMPERS</i>		
JMP3-4 JMP6-8 JMP10 JMP14-15 JMP22	17-016-0077-00	Jumper wire Dia. 0.5mm L=52.0mm
JMP1 JMP5 JMP9 JMP11-13 JMP16-21 JMP23	17-016-0080-90	Jumper Wire Dia. 0.5mm For L Smaller than 14mm
<u>COMPONENT VIDEO BOARD</u>		
<i>PCB ASSEMBLY</i>	50-932-0775-90	T175/T775/T785 COMPONENT VIDEO ASSY
<i>JACKS</i>		
M4001	15-002-0035-90	PHONE JACK 1 GREEN PCB MOUNT 3.5mm RIGHT
M4011,M4012	15-003-0033-90	RCA JACK 6 R-BL-G/R-BL-G PCB MOUNT GOLD
<i>SMD ICS</i>		
U4002-4003	01-012-0067-00	IC LOGIC ANALOG MULTIPLEXER/DE MULTIPLEXER SMD SOIC-16 74HC4052D
U4001	01-026-0001-90	IC VIDEO 3-CHANNEL 75 OHM DRIVER SSOP BA7660FS
<i>SMD RESISTORS</i>		
R4021,R4023,R4024	02-007-0288-00	RES SMD 0 OHM 5% 1/16W 0603
R4004-4006	02-007-0352-00	RES SMD 470K OHM 5% 1/16W 0603
R4001-4003,R4011-4019	02-007-0357-00	RES SMD 75 OHM 5% 1/16W 0603
<i>SMD CAPACITORS</i>		
C4001,C4009-4010	03-009-0075-00	CAP CER SMD 0.1uF 50V 20% Y5V 0603 TAPE
C4006-4008	03-009-0136-00	CAP ELEC SMD 10uF 16V +/-20% 4X5.4
C4003-4005	03-009-0138-00	CAP ELEC SMD 1000uF 10V +/-20% 10x10.5
C4002 C4011-4019	03-009-0141-00	CAP ELEC SMD 2.2uF 50V +/-20% 4x5.4
<u>HMDI BOARD</u>		
<i>PCB ASSEMBLY</i>	50-933-0775-90	T175/T775/T785 HDMI ASSY
<i>INDUCTORS</i>		
L1 L2	07-002-0138-90	INDUCTOR AXIAL 180uH +/- 10% 2474R-28LK
L15	07-002-0148-90	INDUCTOR AXIAL 330uH 2.5A +/- 10%
<i>SMD ICS</i>		
VR201 VR6	01-004-0057-90	IC VOLT REG. LM1117S-1.8 LOW DROPOUT 1.8V 1A SOT-223

U20	01-010-0026-90	IC XC9572XL-5TQ100C IN-SYSTEM PROGRAMMABLE CPLD SMD 100 PIN TQFP
U2 U11 U16 U24 U32	01-012-0076-90	IC CM1213 8-Channel Low Capacitance ESD Protection Arrays CM1213-08MR
U5	01-012-0077-90	IC PCA9517 LEVEL TRANSLATING I2C-BUS REPEATER PCA9517D SMD SO8
U10 U201	01-012-0078-90	IC PCF8574 REMOTE 8-BIT I/O EXPANDER FOR I2C-BUS PCF8574T SMD SO16
U9 U13	01-012-0079-90	IC PI3B16233 3.3V 16-BIT TO 32-BIT FET MUX/DEMUX NANOSWITCH PI3B16233AE SMD TOSSOP 56PIN (PERICOM)
U200	01-012-0082-90	IC LOGIC OCTAL BUFFERS/DRIVERS WITH 3-STATE OUTPUTS 20PIN TSSOP SN74AHCT244PWR (TI)
U18 U22 U26	01-014-0052-90	IC AD8061ART 300MHz RAIL-TO-RAIL AMPLIFIER SMD 5-PINS SOT-23
U17 U21 U25 U27 U29 U30	01-014-0055-90	IC AD8063ARTZ 300MHz RAIL-TO-RAIL AMPLIFIER SMD 6-PINS SOT-23
U19	01-026-0007-90	IC MC141585DW LCD MONITOR OSD II - 16 SMD 16 PINS SOIC
U15 U23	01-028-0002-90	IC TMDS341PFC 3-TO-1 DVI/HDMI SWITCH SMD 80 PINS PQFP
U28	01-029-0006-90	IC ADV7320KSTZ MULTIFORMAT 216MHz VIDEO ENCODER SMD 64 PINS LQFP
U12	01-029-0007-90	IC ADV7403 INTEGRATED MULTIFORMAT SDTV/HDTV VIDEO DECODER SMD 100 PINS LQFP
U14	01-029-0008-90	IC AD9388 10-BIT INTEGRATED MULTIFORMAT VIDEO DECODER AD9388KSTZ SMD 144PIN LQFP
U31	01-029-0011-90	IC AD9389B 800MHz HIGH PERFORMANCE HDMI/DVI TRANSMITTER AD9389KSTZ-80 SMD 80 PIN LQFP
VR3	01-030-0006-90	IC LM2575S-5.0 1A STEP-DOWN VOLTAGE REGULATOR SMD 5 PIN TO-263
VR4	01-030-0007-90	IC LM2575S-3.3 1A STEP-DOWN VOLTAGE REGULATOR SMD 5 PIN TO-263
VR2 U7	01-030-0008-90	IC VOLT REG. LOW DROPOUT 2.5V 1A SOT-223 LM1117S-2.5
VR200	01-030-0009-90	IC LM1086CS-3.3 3.3V 1.5A LDO VOLTAGE REGULATOR SMD 3 PIN TO-263
SMD RESISTORS		
RN1 RN2 RN3 RN4 RN5 RN6 RN7 RN8 RN9 RN10 RN11 RN12 RN13	02-003-0060-00	RES NETWORK 22 OHM X 8 5% 0.063W TAPE 742C163220JP
R1 R2 R3 R4 R5 R11 R13 R14 R18 R28 R32 R64 R66 R200 R205	02-007-0028-00	RES SMD 4.7K OHM 5% 1/10W 0805
R82	02-007-0055-00	RES SMD 750 OHM 0805 5%
R20	02-007-0087-00	RES SMD 10K OHM 1/8W 0805 1%
R103-R106	02-007-0089-00	RES SMD 0 OHM 1/8W 0805 5%
R76 R87 R89	02-007-0311-00	RES SMD 1820 OHM 1% 1/10W 0805
R51 R61 R73 R77 R85 R90 R91 R94 R95	02-007-0320-00	RES SMD 301 OHM 1% 1/10W 0805
R43 R54	02-007-0326-00	RES SMD 4.64K OHM 1% 1/10W 0805

R50 R53 R60 R72	02-007-0329-00	RES SMD 499 OHM 1% 1/10W 0805
R84 R92 R93	02-007-0332-00	RES SMD 604 OHM 1% 1/10W 0805
R29 R30 R35 R36 R37 R49 R41 R44 R59	02-007-0336-00	RES SMD 75 OHM 1% 1/10W 0805
R56 R57 R71 R63 R65 R75 R86 R88		
R10 R12 R17 R19 R21 R33 R34 R45 R47	02-007-0340-00	RES SMD 1 OHM 5% 1/10W 0805
R52 R67 R68 R71 R74 R80 R81 R118		
R210 R211 R212 R213		
R6-R9 R24-R27 R38-R40 R42 R46 R55	02-007-0343-00	RES SMD 22 OHM 5% 1/10W 0805
R62 R69 R78 R79 R96 R102		
R111-R116 R208 R209		
R22 R23 R202 R203	02-007-0344-00	RES SMD 2.7K OHM 5% 1/10W 0805
R16	02-007-0353-00	RES SMD 47 OHM 5% 1/10W 0805
R98	02-007-0363-00	RES SMD 49.9K OHM 1% 0805 1/10W
R100	02-007-0364-00	RES SMD 680 OHM 1% 0805 1/10W
FB1 FB2 FB4	02-007-0366-00	EMI BEAD SMT 120 OHM 500mA 0603
R201 R83	02-007-0430-00	RES SMD 1.5K OHM 1% 1/10W 0805
R206 R207	02-007-0431-00	RES SMD 2.67K OHM 1% 1/10W 0805
R204 R15	02-007-0432-00	RES SMD 1.69K OHM 1% 1/10W 0805
R48 R70 R58	02-007-0484-00	RES SMDISTOR 1.3k OHM 0805 1%
R97	02-007-0486-00	RES SMD 887 OHM 0805 1%
R117	02-007-0487-00	RES SMD 18 OHM 1/10W 0805 1%
R31	02-007-0488-00	RES SMDISTOR 56 OHM 0805 1%
R99 R101	02-007-0492-00	RES SMD 3.01K OHM 0805 1%
SMD CAPACITORS		
C18,C19,C22,C43,C47,C130,C160, C162,C204,C205,C206,C207,C236	03-005-0015-00	CAP TANTALUM 10uF 10V +/- 10% A CASE
C46,C50	03-005-0016-00	CAP TANTALUM 22uF 10V +/- 10% B CASE
C9 C10	03-009-0073-00	CAP CER CAP 100pF/50V 5% NPO 0805
C1 C4 C13 C17 C21 C23-27 C29-34 C37-38 C41-42 C48 C52-53 C57-58 C60 C62 C64 C66-67 C69-74 C76 C79-86 C88-91 C95-115 C117-118 C120-123 C125-128 C141 C144 C146-148 C150-152 C155-156 C159 C161 C163-164 C166-171 C210-215 C227-234	03-009-0074-00	CAP CER CAP 0.1uF/50V 10% X7R 0805
C11 C12 C20 C51 C54 C59 C65 C77 C92-C94 C132-C136 C140 C142 C143 C145 C149 C153 C154 C157 C158 C201-C203 C216-C223 C238	03-009-0126-00	CAP CER SMD 10nF 50V 10% X7R 0805
C2 C3 C15 C16 C235 C237	03-009-0127-00	CAP CER SMD 1uF 16V +80/-20% Y5V 0805
C36 C40 C45 C224 C225	03-009-0132-00	CAP CER SMD 33pF 100V 0805 +/-5% NPO
C14 C208 C209	03-009-0146-00	CAP CER SMD 0.082uF 25V 10% X7R 0805
C63 C68 C75 C78	03-009-0147-00	CAP CER SMD 10uF 10V +80% -20% 0805
C119	03-009-0148-00	CAP CER SMD 3900pF 50V 10% X7R 0805
C49 C55 C56	03-009-0149-00	CAP CER SMD 68pF 50V 5% NPO 0805
C116	03-009-0150-00	CAP CER SMD 820pF 50V 10% X7R 0805
C35 C39 C44	03-009-0151-00	CAP CER SMD 82pF 50V 5% NPO 0805
C5 C7	03-009-0152-00	SMD E CAP 100uF/16V ±20% LOW IMPEDANCE D CASE 6.3 X 5.8

C6 C8	03-009-0154-00	SMD E CAP 220uF/16V ±20% LOW IMPEDANCE D CASE 6.3 X 7.7
C28	03-009-0165-00	CAP CER SMD 1000pF 100V +/-5% NPO 0805
C200	03-009-0186-00	CAP CER SMD 8200pF 50V 10% C0G 0805
SMD DIODES		
D1 D2	04-001-0049-90	DIODE SHKY 1A/40V DO-213AB SM5819
SMD TRANSISTORS		
Q1-Q5	05-004-0035-90	TRANSISTOR SS NPN HFE30 250MHz SPT DTC114EKAT146
SMD INDUCTOR		
L3 L5 L7	07-007-0020-90	IND SMD 220nH 10% 0805
L9 L10 L11 L12 L13 L14	07-007-0021-90	IND SMD 3.3uH 10% 0805
L4 L6 L8	07-007-0022-90	IND SMD 470nH 10% 0805
SMD OSCILLATOR		
X200	14-004-0018-90	CRYSTAL 28.63636MHz 30ppm 18pF SMD HC-49SM 01-CR1-03-28M63636-18-3030
U3	14-004-0022-90	CRYSTAL OSCILLATOR 28.63636MHz +/-50ppm 3.3V SMD
SMD FUSE		
F200	20-006-0007-90	SMD Fuse SMD2920P075TF 0.75A Circuit Breaker Resettable VDE
MCU BOARD		
PCB ASSEMBLY*AH	50-937-0775-90	T775 AH MCU ASSY
PCB ASSEMBLY*C,CT	50-946-0775-90	T775 C/CT MCU ASSY
SMD ICS		
U2008	01-004-0056-90	IC VOLT REG. LOW DROPOUT 3.3V 1A SOT-223 LM1117S-3.3
U2006	01-008-0007-90	IC MICROPOWER UP WATCH DOG TIMER 2.93V SOT-25 AME8530AEEVEFX29Z
U2001	01-010-0025-90	IC M30280FCHP-U3 16-BIT MCU 128K ROM 12K RAM QFP 80P6Q-A
U2007	01-010-0030-90	IC MCU 8 BITS 8K ROM 512 BYTES RAM TQFP ATmega48-20
U2002	01-011-0034-90	IC LE030401 AT24C16-AN-2.7 ATMEL
U2009	01-012-0059-00	IC LOGIC QUAD 2-INPUT NAND GATE SOP 74HC00D
U2005	01-012-0073-90	IC 74HC132D LOGIC QUAD 2-INPUT NAND SCHMITT TRIGGER SMD 14 PINS SOIC
SMD RESISTORS		
R2026	02-007-0042-00	RES SMD 1K OHM 0603 5%
L2001	02-007-0089-00	RES SMD 0 OHM 1/8W 0805 5%
R2011	02-007-0094-00	RES SMD 1K OHM 1/4W 1206 1%
R2013-2014 R2022 R2028 R2044	02-007-0139-00	RES SMD 4.7K OHM 0603 5%
R2004 R2009 R2002 R2019-2021 R2023 R2025 R2027 R2043	02-007-0157-00	RES SMD 10K OHM 0603 1%

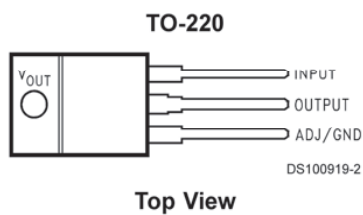
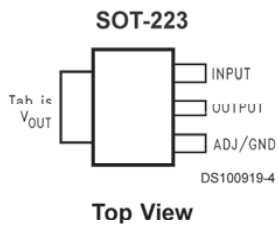
R2001 R2007	02-007-0267-00	RES SMD 100K OHM 5% 1/16W 0603
R2003 R2010 R2012 R2015-2016*AH	02-007-0288-00	RES SMD 0 OHM 5% 1/16W 0603
R2017-2018*C CT R2024 R2041 R2042		
R2031-R2038	02-007-0292-00	RES SMD 2.2K OHM 1% 1/16W 0603
SMD CAPACITORS		
C2002-2003 C2006-2007 C2010 C2019	03-009-0075-00	CAP CER SMD 0.1uF 50V 20% Y5V 0603
C2022 C2023 C2026 C2028 C2030		TAPE
C2032 C2033		
C2017	03-009-0112-00	CAP CER SMD 1nF 50V 10% X7R 0603
C2009	03-009-0136-00	CAP ELEC SMD 10uF 16V +/-20% 4X5.4
C2008	03-009-0138-00	CAP ELEC SMD 1000uF 10V +/-20% 10X10.5
C2018	03-009-0139-00	CAP ELEC SMD 0.1uF 50V +/-20% 4X5.4
C2001	03-009-0140-00	CAP ELEC SMD 22uF 16V +/-20% 5X5.4
C2004-2005, C2021 C2024 C2025	03-009-0143-00	CAP ELEC SMD 47uF 50V +/-20% 6.3X7.7
C2027 C2029 C2031		
C2020	03-009-0153-00	SMD E CAP 1uF/50V ±20% B CASE 4 X 5.4
SMD DIODES		
D2001	04-006-0021-90	SMD Diode LL4148 SOD80
SMD TRANSISTORS		
Q2007	05-004-0020-00	SMD Transistor T3904 SOT-23
Q2008 Q2009 Q2010 Q2011 Q2012	05-004-0035-90	TRANSISTOR SS NPN HFE30 250MHz SPT DTC114EKAT146
Q2001-Q2004	05-004-0037-90	TRANSISTOR SS PNP HFE 30 250MHz SPT DTA114EKAT146
SMD OSCILLATOR		
X2001A	14-004-0019-90	CRYSTAL OSCILLATOR 20.000MHz 5V 50ppm 15pF SMD
CONNECTOR #1 BOARD		
PCB ASSEMBLY	50-938-0775-90	T765/T775/T785 CONNECTION # 1 ASSY
CONNECTOR #2 BOARD		
PCB ASSEMBLY	50-942-0775-90	T775/T785 CONNECTION # 2 ASSY
CONNECTOR #3 BOARD		
PCB ASSEMBLY	50-943-0765-90	T765/T775/T785 CONNECTION # 3 ASSY
CONNECTOR #4 BOARD		
PCB ASSEMBLY	50-944-0775-90	T775/T785 CONNECTION # 4 ASSY

IC BLOCK DIAGRAM

MAINBOARD

LM1117

(U1020 in DSP, U2008 in MCU, VR201, VR2, VR6, U7 in HDMI, U1034 in DSP)



MCU

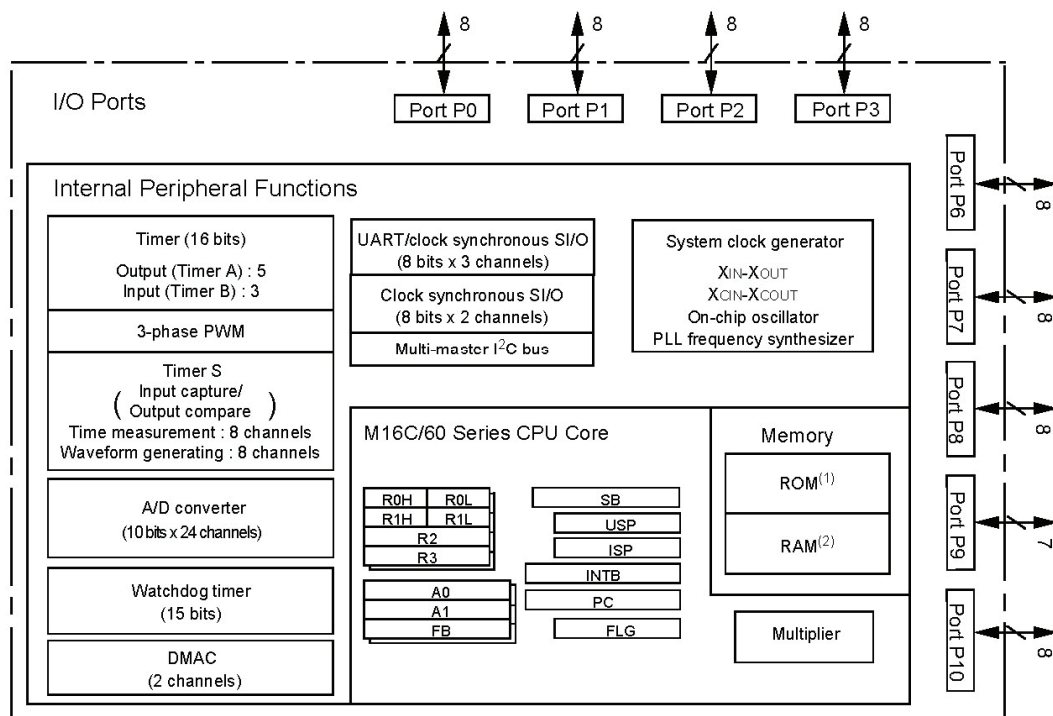
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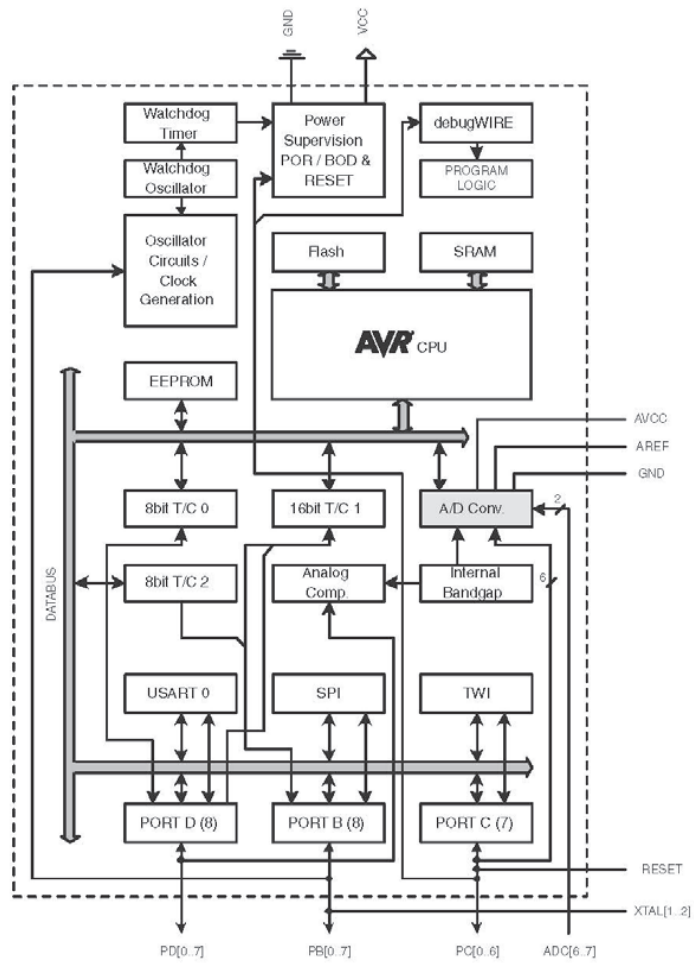


M30280

(U2001)



ATMEGA48-20 (U2007)



AT24C16 (U2002)

