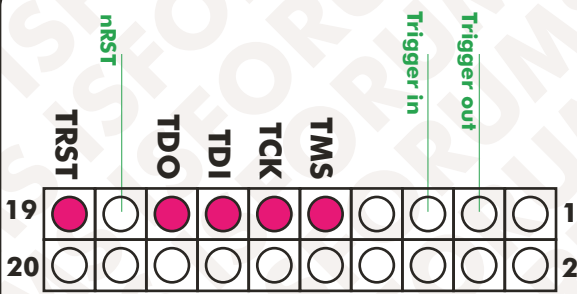


راهنمای پورت جیتگ در بردهای مختلف (ویرایش ۴)

JTAG CONNECTIONS AND PINOUTS V4.0

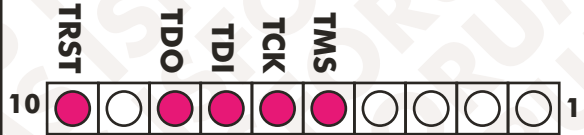
STB Section :

بخش رسیورها :



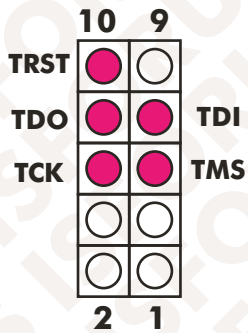
20 pin standard pinout

درگاه استاندارد ۲۰ پین در رسیورهای جدید
samsung - next - supermax - forttec star
kaon - lazer - sunny - metabox - vision
starsat - daewoo - citizen - rex - strong
techstar - mediacom - etc.



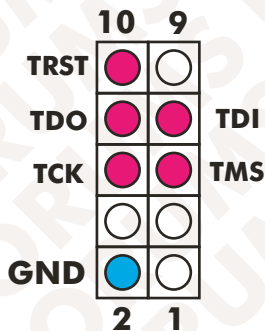
10 pin standard pinout

درگاه استاندارد ۱۰ پین در رسیورهای جدید
Supermax 9950 ST
Supermax 9950 plus
..... etc.

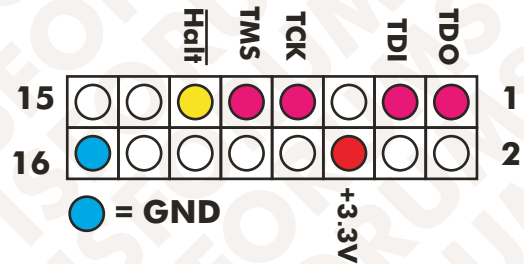


Forttec star
lifetime
7 buttons

Prima XDS-2103



IBM Powerpc based set-top boxes STB0210x/ 023x/025x

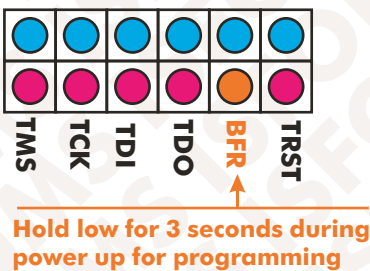


acc3200 , nextwave suc2500
, yu-ma-tu cs5500 /8000 ,

ACC9800 model1

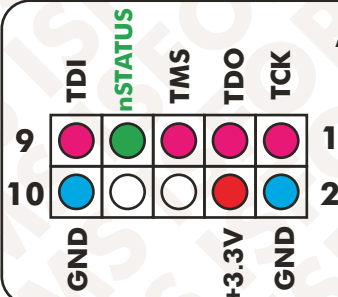
TMS= R47
TCK= R49
TDI= R50
TDO= Pin189 CPU
TRST= R20
BFR= R90
HOT SIDE THAT CONNECTED TO CPU

ACC 9800 - model 2



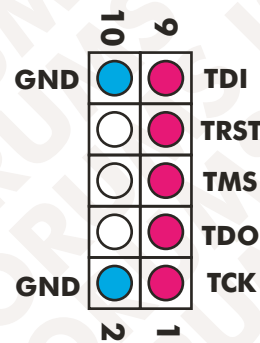
Hold low for 3 seconds during
power up for programming

Altera/NEC standard pinout



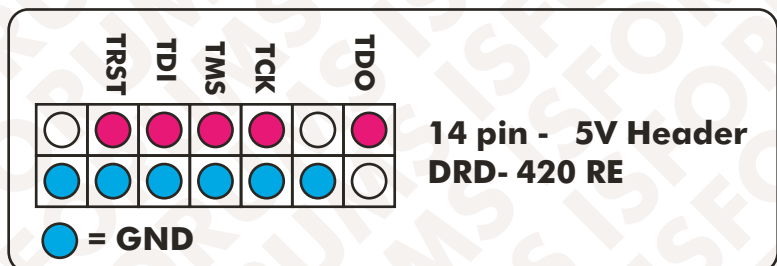
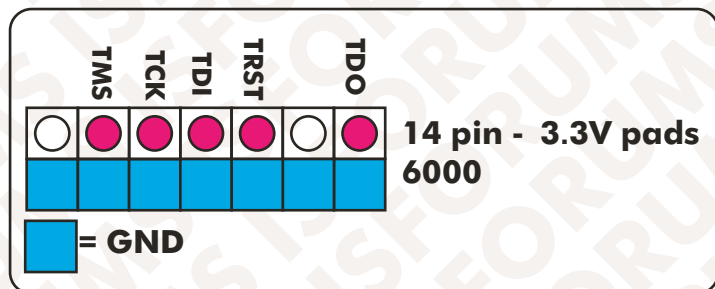
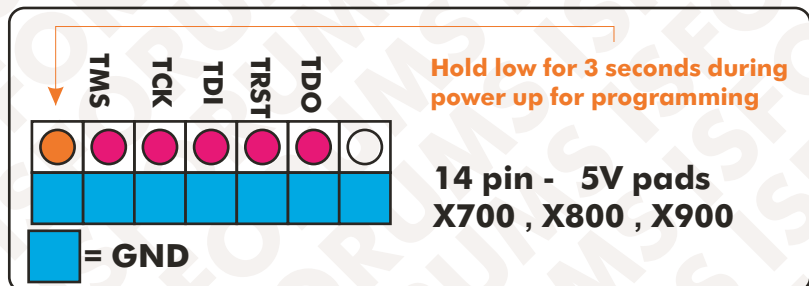
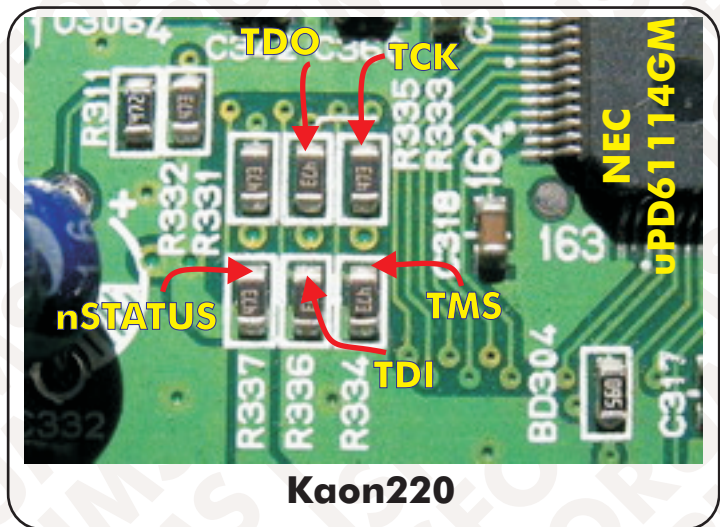
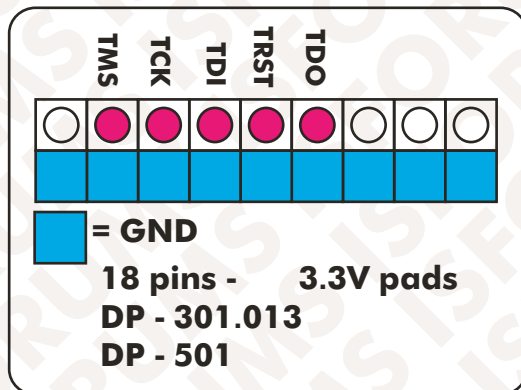
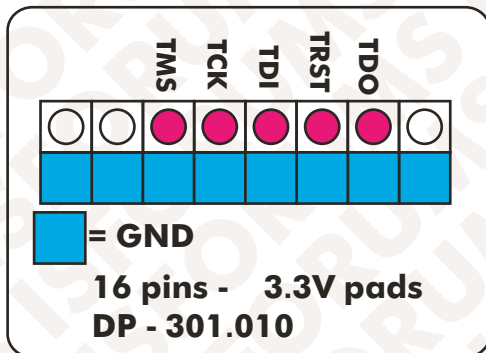
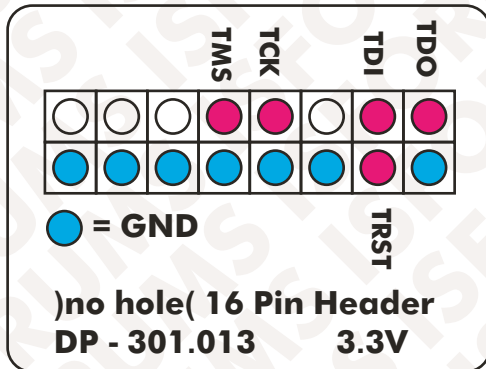
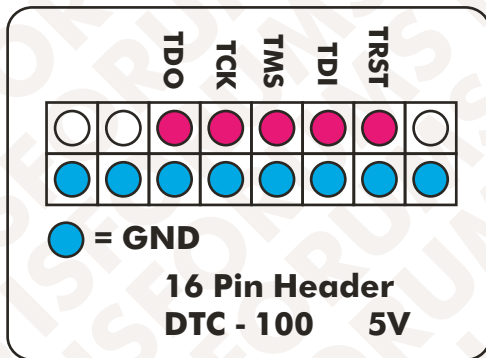
NEC

starsat 190 / 220 ,
superstar 120 , ...



OMEGA
STI5518

Redline 14500



ALTERA BYTEBLASTER MV AND II 10-PIN (JTAG)

AMONTEC REF: ALTERA10JTAG
NAME: ALTERA ByteBlaster MV and II (JTAG)
CATEGORY: JTAG
TARGET: All ALTERA CPLDs and FPGAs
COMMENT: See ALTERA ByteBlaster MV or II datasheet for more details
CONNECTOR: 10-pin Header (2.54mm)
CONNECTOR TYPE: dual

TCK	i	1	2	p	GND
TDO	o	3	4	p	VREF
TMS	i	5	6	nc	-
-	nc	7	8	nc	-
TDI	i	9	10	p	gnd

ALTERA BYTEBLASTER MV AND II 10-PIN (PS MODE)

AMONTEC REF: ALTERA10PS
NAME: ALTERA ByteBlaster MV and II (PS MODE)
CATEGORY: ISP
TARGET: A large part of ALTERA CPLDs and FPGAs
COMMENT: See ALTERA ByteBlaster MV or II datasheet for more details
CONNECTOR: 10-pin Header (2.54mm)
CONNECTOR TYPE: dual

DCLK	i	1	2	p	GND
CONF_DONE	o	3	4	p	VREF
nCONFIG	i	5	6	nc	-
nSTATUS	o	7	8	nc	-
DATA0	i	9	10	p	gnd

ALTERA BYTEBLASTER II 10-PIN (AS MODE)

AMONTEC REF: ALTERA10AS
NAME: ALTERA ByteBlaster MV and II (AS MODE)
CATEGORY: ISP
TARGET: A large part of ALTERA FPGAs
COMMENT: See ALTERA ByteBlaster II datasheet for more details
CONNECTOR: 10-pin Header (2.54mm)
CONNECTOR TYPE: dual

DCLK	i	1	2	p	GND
CONF_DONE	o	3	4	p	VREF
nCONFIG	i	5	6	i	nCONFIG
nSTATUS	o	7	8	i	nCS
DATA0	i	9	10	p	gnd

IBM 4XX 16-PIN(JTAG RISCWATCH)

AMONTEC REF: IBM16
NAME: IBM 4xx
CATEGORY: JTAG
TARGET: IBM 4xx
COMMENT: IBM also calls this RISCWatch.
CONNECTOR: 16-pin Header (2.54mm)
CONNECTOR TYPE: dual

TDO	o	1	2	nc	-
TDI	i	3	4	i	TRST_N
HALTED	o	5	6	p	VREF
TCK	i	7	8	nc	-
TMS	i	9	10	nc	-
HALT	i	11	12	p	GND
SRST_N	od	13	14	k	KEY
-	nc	15	16	p	GND

IBM / MOTOROLA PPC "COP" INTERFACE 16-PIN(JTAG)

AMONTEC REF: COP16
NAME: COP Interface
CATEGORY: JTAG
TARGET: MOTOROLA Freescale PowerPC 6xx, 7xx, 8xxx and IBM PowerPC 6xx and 7xx
COMMENT: IBM also refers to this connection as RISCWatch.
CONNECTOR: 16-pin Header (2.54mm)
CONNECTOR TYPE: dual

TDO	o	1	2	i	QACK_N
TDI	i	3	4	i	TRST_N
HALTED	o	5	6	p	VREF
TCK	i	7	8	nc	-
TMS	i	9	10	nc	-
SRST_N	od	11	12	p	GND
HRST_N	od	13	14	nc	-
CKSTP_OUT	o	15	16	p	GND

ARM 14-PIN (JTAG)

AMONTEC REF: ARM14
NAME: ARM 14-pin
CATEGORY: JTAG
TARGET: ARM7, ARM9, ARM10, XSCALE
COMMENT: 20 pin specification.
CONNECTOR: 14-pin Header(2.54mm)
CONNECTOR TYPE: dual

VREF	p	1	2	p	GND
TRST_N	i	3	4	p	GND
TDI	i	5	6	p	GND
TMS	i	7	8	p	GND
TCK	i	9	10	p	GND
TDO	o	11	12	od	SRST_N
VREF	p	13	14	p	GND

ARM 20-PIN (JTAG)

AMONTEC REF: ARM20
NAME: ARM 20-pin
CATEGORY: JTAG
TARGET: ARM7, ARM9, ARM10, XSCALE
COMMENT: 20 pin specification.
CONNECTOR: 20-pin Header (2.54mm)
CONNECTOR TYPE: dual

VREF	p	1	2	nc	-
TRST_N	i	3	4	p	GND
TDI	i	5	6	p	GND
TMS	i	7	8	p	GND
TCK	i	9	10	p	GND
-	nc	11	12	p	GND
TDO	o	13	14	p	GND
SRST_N	od	15	16	p	GND
-	nc	17	18	p	GND
-	nc	19	20	p	GND

ARM 20-PIN WITH RTCK FEATURE (JTAG)

AMONTEC REF: ARM20RTCK
NAME: ARM 20-pin with RTCK feature
CATEGORY: JTAG
TARGET: ARM7-s, ARM9-s, ARM10-s. ARMx-s processor series use the RTCK JTAG Baudrate feature.
COMMENT:
CONNECTOR: 20-pin Header (2.54mm)
CONNECTOR TYPE: dual

VREF	p	1	2	nc	-
TRST_N	i	3	4	p	GND
TDI	i	5	6	p	GND
TMS	i	7	8	p	GND
TCK	i	9	10	p	GND
RTCK	o	11	12	p	GND
TDO	o	13	14	p	GND
SRST_N	od	15	16	p	GND
-	nc	17	18	p	GND
-	nc	19	20	p	GND

MIPS – EJTAG-2.5 14-PIN (JTAG)

AMONTEC REF: MIPS14
NAME: MIPS - EJTAG 2.5
CATEGORY: JTAG
TARGET: MIPS, MIPS32, MIPS64, MIPS-32, MIPS-64,
COMMENT: There are many MIPS JTAG headers in use.
CONNECTOR: 14-pin Header (2.54mm)
CONNECTOR TYPE: dual

TRST_N	i	1	2	p	GND
TDI	i	3	4	p	GND
TDO	o	5	6	p	GND
TMS	i	7	8	p	GND
TCK	i	9	10	p	GND
SRST_N	od	11	12	k	KEY
DINT	i	13	14	p	VREF

TI MSP430 14-PIN (JTAG)

AMONTEC REF: MSP43014
NAME: TI MSP430 JTAG
CATEGORY: JTAG
TARGET: Texas Instruments TI MSP430
COMMENT:
CONNECTOR: 14-pin Header (2.54mm)
CONNECTOR TYPE: dual

TDO	o	1	2	p	VREF
TDI	i	2	4	p	nc
TMS	i	5	6	i	TCLK
TCK	i	7	8	o	TST_VPP
GND	p	9	10	nc	-
RST_NMI	i	11	12	nc	-
-	nc	13	14	nc	-

AMD – ATHLON 16-PIN (JTAG)

AMONTEC REF: AMD16ATHLON
NAME: AMD - Athlon
CATEGORY: JTAG
TARGET: AMD - Athlon
COMMENT: See AMD's Athlon datasheet for more details
CONNECTOR: 16-pin Header (1.27mm)
CONNECTOR TYPE: dual

VREF	p	1	2	i	TCK
-	nc	3	4	i	TMS
-	nc	5	6	nc	-
-	nc	7	8	i	TDI
-	nc	9	10	i	TRST_N
GND	p	11	12	o	TDO
DBREQ_N	i	13	14	o	DBRDY
SRST_N	od	15	16	i	PLLTEST_N

AMD –ELAN SC520 12-PIN (JTAG)

AMONTEC REF: AMD12ELAN
NAME: AMD –Elan SC520
CATEGORY: JTAG
TARGET: AMD Elan SC520
COMMENT: See AMD's Elan SC520 datasheet for more details
CONNECTOR: 12-pin Header (2mm)
CONNECTOR TYPE: dual

GND	p	1	2	p	VREF
TCK	i	3	4	o	CMDACK
TMS	i	5	6	i	BR/TC
TDI	i	7	8	o	STOP/TX
TDO	o	9	10	o	TRIG/TRACE
SSRST_N	od	11	12	k	KEY

AMD – OPTERON 26-PIN (JTAG)

AMONTEC REF: AMD26OPTERON
NAME: AMD - Opteron
CATEGORY: JTAG
TARGET: AMD - Opteron
COMMENT: See AMD's Opteron datasheet for more details
CONNECTOR: 26-pin Header (1.27mm)
CONNECTOR TYPE: dual

GND	p	1	2	p	GND
RSVD1	o	3	4	p	GND
RSVD0	i	5	6	p	GND
DBREQ_N	i	7	8	p	GND
DBRDY	o	9	10	p	GND
TCK	i	11	12	p	GND
TMS	i	13	14	p	GND
TDI	i	15	16	p	GND
TRST_N	i	17	18	p	GND
TDO	o	19	20	p	GND
VREF	p	21	22	p	GND
VREF	p	23	24	nc	-
KEY	k	25	26	nc	-

PHILLIPS'S MIPS 20-PIN (JTAG)

AMONTEC REF: MIPS20PHILLIPS
NAME: PHILLIPS's MIPS
CATEGORY: JTAG
TARGET: MIPS, MIPS32, MIPS64, MIPS-32, MIPS-64
COMMENT: See PHILLIPS's MIPS datasheet for more details
CONNECTOR: 20-pin Header (2.54mm)
CONNECTOR TYPE: dual

TRST_N	i	1	2	p	GND
TDI	i	3	4	p	GND
TDO	o	5	6	p	GND
TMS	i	7	8	p	GND
TCK	i	9	10	p	GND
SRST_N	od	11	12	p	GND
-	nc	13	14	p	GND
-	nc	15	16	p	GND
-	nc	17	18	p	GND
-	nc	19	20	p	GND

ATMEL ATDH2081 DOWNLOAD CABLE 10-PIN (ISP)

AMONTEC REF: ATDH208110
NAME: ATMEL ATDH2081 Download Cable
CATEGORY: ISP
TARGET: Atmel's ATDH2081 download cable allows designers to configure Atmel's family of AT6K/40K Field Programmable Gate Array (FPGA) and AT94K Field Programmable System Level Integrated Circuit (FSLIC) devices. Download Cable
COMMENT: See CYPRESS UltraISR JTAG download cable datasheet for more details.
CONNECTOR: 10-pin Header (2.54mm)
CONNECTOR TYPE: dual

DI	i	1	2	i	CON
CI	i	3	4	nc	CO
DO	nc	5	6	o	ERR
GND	p	7	8	p	VREF
-	nc	9	10	nc	-

ATMEL AVR STKX00 ISP DOWNLOAD CABLE 10-PIN (ISP)

AMONTEC REF: STKx0010
NAME: ATMEL AVR STKx00 ISP Download Cable (STK200 and STK300)
CATEGORY: ISP
TARGET: ATMEL AVR micro-processor
COMMENT: See ATMEL AVR STK200 or STK300 download cable datasheet for more details.
CONNECTOR: 10-pin Header (2.54mm)
CONNECTOR TYPE: dual

MOSI	i	1	2	p	VREF
LED	i	3	4	p	GND
RST	i	5	6	p	GND
SCK	i	7	8	p	GND
MISO	o	9	10	p	GND

CYPRESS ULTRAISR DOWNLOAD CABLE 10-PIN (ISR)

AMONTEC REF: ULTRAISR10
NAME: CYPRESS UltraISR Download cable (ISR)
CATEGORY: ISP
TARGET: All Cypress CPLD Types
COMMENT:
CONNECTOR: 10-pin Header (2.54mm)
CONNECTOR TYPE: dual

GND	p	1	2	i	SMODE
ISRVPP	i	3	4	i	SCLK
ISR	i	5	6	i	SDI
VREF	p	7	8	k	
SDO	o	9	10	p	GND

CYPRESS ULTRAISR DOWNLOAD CABLE 10-PIN (JTAG)

AMONTEC REF: ULTRAISR10
NAME: CYPRESS UltraISR Download cable (JTAG)
CATEGORY: JTAG
TARGET: All Cypress CPLD Types
COMMENT:
CONNECTOR: 10-pin Header (2.54mm)
CONNECTOR TYPE: dual

GND	p	1	2	i	TMS
JTAGen	i	3	4	i	TCK
ISR	i	5	6	i	TDI
VREF	p	7	8	k	
TDO	o	9	10	p	GND
GND	p	1	2	i	TMS

LATTICE ISPDOWNLOAD 8-PIN(JTAG AND ISP)

AMONTEC REF: LATTICE8
NAME: LATTICE ispDOWNLOAD 8-pin connector
CATEGORY: JTAG ISP
TARGET: All LATTICE CPLDs
COMMENT:
CONNECTOR: 8-pin Header (2.54mm)
CONNECTOR TYPE: inline

VREF	p	1
SDO_TDO	o	2
SDI_TDI	i	3
ISPEN_N	i	4
-	nc	5
MODE_TMS	i	6
GND	p	7
SCLK_TCK	i	8

LATTICE ISPDOWNLOAD 10-PIN (JTAG AND ISP)

AMONTEC REF: LATTICE10
NAME: LATTICE ispDOWNLOAD 10-pin header
CATEGORY: JTAG ISP
TARGET: All LATTICE CPLDs
COMMENT:
CONNECTOR: 10-pin Header (2.54mm)
CONNECTOR TYPE: dual

TCK	i	1	2	nc	-
TMS	i	3	4	p	GND
TDI	i	5	6	p	VREF
TDO	o	7	8	p	GND
TRST	i	9	10	i	ISPEN_N

TOSHIBA'S MIPS 20-PIN (JTAG)

AMONTEC REF: MIPS20TOSHIBA
NAME: TOSHIBA's MIPS
CATEGORY: JTAG
TARGET: MIPS, MIPS32, MIPS64, MIPS-32, MIPS-64
COMMENT: See TOSHIBA's MIPS datasheet for more details
CONNECTOR: 20-pin Header (1.27mm)
CONNECTOR TYPE: dual

TRST_N	i	1	2	p	GND
TDI	i	3	4	p	GND
TDO	o	5	6	p	GND
TMS	i	7	8	p	GND
TCK	i	9	10	nc	-
VREF	p	11	12	nc	-
SRST_N	od	13	14	nc	-
-	nc	15	16	nc	-
-	nc	17	18	nc	-
-	nc	19	20	nc	-

MOTOROLA FREESCALE COLFIRE 26-PIN (BDM P&E)

AMONTEC REF: COLDFIRE26
NAME: MOTOROLA Freescale Colfire BDM P&E (cable_cf)
CATEGORY: BDM
TARGET: MOTOROLA Freescale Colfire
COMMENT: See COLDFIRE P&E BDM debug product datasheet for more details.
CONNECTOR: 26-pin Header (2.54mm)
CONNECTOR TYPE: dual

-	nc	1	2	i	BKPT_N
GND	p	3	4	i	DSCLK
GND	p	5	6	nc	-
SRST_N	od	7	8	i	DSI
VREF	p	9	10	o	DSO
GND	p	11	12	o	PST3
PST2	o	13	14	o	PST1
PST0	o	15	16	nc	(D3)
(D2)	nc	17	18	nc	(D1)
(D0)	nc	19	20	p	GND
-	nc	21	22	nc	-
GND	p	23	24	o	CPUCLK
VREF	p	25	26	i	TEA_N

MOTOROLA FREESCALE MPCXXX 10-PIN (BDM)

AMONTEC REF: BDM10
NAME: BDM for MOTOROLA Freescale
CATEGORY: BDM
TARGET: MOTOROLA Freescale MPC8xx, MPC5xx
COMMENT: It is vital that pins 1 and 6 properly reflect the status of the target processor immediately following RESET. Some processors have configurable pins (MPC8xx, etc.) that are specified by a reset configuration word at the time of reset. These pins must be set properly and must ALWAYS reflect the status of the processor correctly. Check the 'hardware reset configuration word' in the MOTOROLA Freescale User's manual.
CONNECTOR: 10-pin Header (2.54mm)
CONNECTOR TYPE: dual

FRZ_VFLS0	o	1	2	o	SSRST_N
GND	p	3	4	i	DSCK
GND	p	5	6	o	FRZ_VFLS1
SRST_N	od	7	8	i	DSDI
VREF	p	9	10	o	DSDO

MOTOROLA "ONCE", ON CHIP EMULATION 14-PIN (JTAG)

AMONTEC REF: ONCE14
NAME: OnCe, On Chip Emulation
CATEGORY: JTAG
TARGET: MOTOROLA Freescale DSP, M*CORE
COMMENT: -
CONNECTOR: 14-pin Header (2.54mm)
CONNECTOR TYPE: dual

TDI	i	1	2	p	GND
TDO	o	3	4	p	GND
TCK	i	5	6	p	GND
-	nc	7	8	nc	-
SRST_N	od	9	10	i	TMS
VREF	p	11	12	p	GND
-	nc	13	14	i	TRST_N

ST PSD FLASHLINK PROGRAMMER 14-PIN (JTAG)

AMONTEC REF: PSD14
NAME: ST PSD FlashLINK programmer
CATEGORY: JTAG
TARGET: All ST PSD Flash products
COMMENT: See ST PSD FlashLINK JTAG cable datasheet for more details.
CONNECTOR: 14-pin Header (2.54mm)
CONNECTOR TYPE: dual

JEN_N	od	1	2	od	TRST_N
GND	p3	4	od	i	CNTL
TDI	i	5	6	o	TSTAT
VREF	p	7	8	i	RST_N
TMS	i	9	10	p	GND
TCK	i	11	12	p	GND
TDO	o	13	14	o	TERR_N

XILINX PARALLEL CABLE III AND IV 9-PIN (JTAG)

AMONTEC REF: XILINX9INLINE
NAME: XILINX Parallel Cable III and IV (JTAG)
CATEGORY: JTAG
TARGET: A large part of XILINX CPLDs, FPGAs and Flash. CoolRunner, CoolRunner-II, SPARTAN, SPARTAN-XL, SPARTAN3, VIRTEX, VIRTEX-II, VIRTEX-PRO.
COMMENT: See XILINX Parallel Cable III or IV for more details
CONNECTOR: 9-pin inline Header (2.54mm)
CONNECTOR TYPE: inline

VREF	p	1
GND	p	2
-	nc	3
TCK (CCLK)	i	4
-	nc	5
TDO (DONE)	bod	6
TDI (DIN)	i	7
-	nc	8
TMS(PROG)	i	9

XILINX PARALLEL IV 14-PIN(JTAG AND SLAVE SERIAL)

AMONTEC REF: XILINX14
NAME: XILINX Parallel IV (JTAG and Slave Serial)
CATEGORY: JTAG ISP
TARGET: A large part of XILINX CPLDs, FPGAs and Flash. CoolRunner, CoolRunner-II, SPARTAN, SPARTAN-XL, SPARTAN3, VIRTEX, VIRTEX-II, VIRTEX-PRO.
COMMENT: See XILINX USB PlatformCable for more details.
CONNECTOR: 14-pin Header (2mm)
CONNECTOR TYPE: dual

VGND	io	1	2	p	VREF
GND	p	3	4	i	TMS(PROG)
GND	p	5	6	i	TCK(CCLK)
GND	p	7	8	o	TDO(DONE)
GND	p	9	10	i	TDI(DIN)
GND	p	11	12	nc	-
GND	p	13	14	io	NC(INIT)

XILINX PARALLEL CABLE III 9-PIN(SLAVE SERIAL)

AMONTEC REF: XILINX9SERIAL
NAME: XILINX Parallel Cable III (Slave Serial)
CATEGORY: ISP
TARGET: A large part of XILINX FPGAs. SPARTAN, SPARTAN-XL, SPARTAN3, VIRTEX, VIRTEX-II, VIRTEX-PRO.
COMMENT: See XILINX Parallel Cable III for more details
CONNECTOR: 9-pin Header (2.54mm)
CONNECTOR TYPE: inline

VREF	p	1
GND	p	2
CCLK	i	3
-	nc	4
-	nc	5
DONE	bod	6
DIN	i	7
-	nc	8
PROG	i	9

توجه : کلیه حقوق این اثر متعلق به انجمن ایز فروم میباشد . استفاده از مطالب مندرج در این اثر با ذکر منبع بلامانع است .

<http://isf.bb2.org>

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