Model No. P1

P1 Bottom Connectors Layout Template

Rev 1.0A

Note: This layout template is for daughter cards that attach to the bottom side of the P1 - P1 daughter card connectors mount on the top side of the daughter card.

SOC Machines, Inc.
Vancouver, BC

TITLE: P1 Connector Bottom Layout

Document Number: 20051020

Date: 11/30/2005 11:19:40a
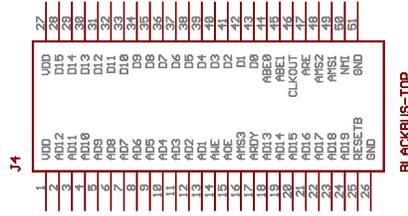
REV: A

Sheet: 1/2

DC Power Connectors

VDD
GND
1X2NR
J14

AVR Serial Port

J2
PINH-1X3R
TXA
RXA
GND
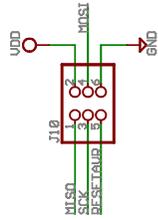
Blackfin JTAG Port
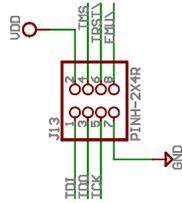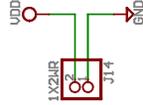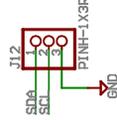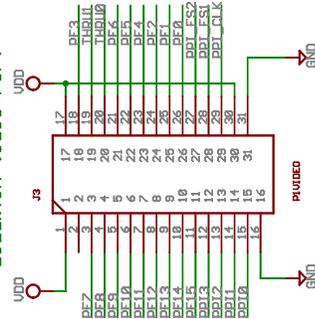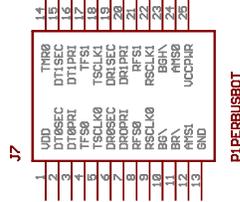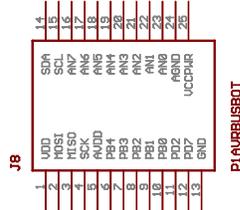
J13
PINH-2X4R
UDD
TMS
TRST\
EMU\
TDI
TDO
TCK
GND

Blackfin Serial Port

J1
PINH-1X3R
TXB
RXB
GND

AVR RS-485 Port

J11
PINH-2X2R
RX-
RX+
TX+
TX-

AVR ISP Port

J10
PINH-2X4R
UDD
MOSI
GND
MISO
SCK
RESETAVR

AVR TWI Port

J12
PINH-1X3R
SDA
SCL
GND

AVR IO Port

J8
PI AVRBUSBOT
1	UDD	SDA	14
2	MOSI	SCL	15
3	MISO	AN7	16
4	SCK	AN6	17
5	AVDD	AN5	18
6	PB4	AN4	20
7	PB3	AN3	21
8	PB2	AN2	22
9	PB1	AN1	23
10	PB0	AN0	24
11	PD2	AGND	25
12	PD7	VCCPWR	
13	GND		

Connector: Hirose DF9-25P-1V (male)
Digikey PN: H2172-ND

Blackfin Sport Port

J7
PI PERBUSBOT
1	UDD	TMR0	14
2	DT0SEC	DT1SEC	15
3	DT0PRI	DT1PRI	16
4	TFS0	TFS1	17
5	TSCLK0	TSCLK1	18
6	DR0SEC	DR1SEC	20
7	DR0PRI	DR1PRI	21
8	RFS0	RFS1	22
9	RSCLK0	RSCLK1	23
10	BG\	AMS0	24
11	BR\	AMS1	25
12	PD2	VCCPWR	
13	GND		

Connector: Hirose DF9-25P-1V (male)
Digikey PN: H2172-ND

Blackfin Memory Bus

J4
BLACKBUS-TOP
1	VDD	VDD	27
2	AD12	D15	28
3	AD11	D14	29
4	AD10	D13	31
5	AD9	D12	33
6	AD8	D11	34
7	AD7	D10	35
8	AD6	D9	37
9	AD5	D8	38
10	AD4	D7	40
11	AD3	D6	42
12	AD2	D5	44
13	AD1	D4	43
14	AOE	D3	45
15	AWE	D2	46
16	AMS3	D1	48
17	ARDY	D0	50
18	AD13	ABE0	51
19	AD14	ABE1	
20	AD15	ARE	
21	AD16	CLKOUT	
22	AD17	AMS2	
23	AD18	AMS1	
24	AD19	NMI	
25	RESETB	RESETB	
26	GND	GND	

Connector: Hirose DF9-51P-1V (male)
Digikey PN: H2163-ND

Blackfin Video Port

J3
P1VIDEO
VDD
GND
VDD
GND
1	17	DF3	
2	18	THRU1	
3	19	THRU0	
4	20	DF6	
5	21	DF5	
6	22	DF4	
7	23	DF2	
8	24	DF1	
9	25	DF0	
10	26		
11	27	DDT_FS2	
12	28	DDT_FS1	
13	29	DDT_FS0	
14	30	DDT_CLK	
15	31		
16			

DF7
DF8
DF9
DF11
DF12
DF14
DF13
DDT1
DDT2
DDT0

Connector: Hirose DF9-31P-1V (male)
Digikey PN: H2173-ND