AT8904M

kontron

AdvancedTCA Hub Board with Base & 10GbE Fabric Interface and 2 mid-size AMC Slots

Board Rev. 0

QUICK REFERENCE

Document version 1.2

CONNECTORS

J5	AMC B1	J20	ATCA Zone 2
J12	AMC B2	J21	ATCA Zone 2
J42	Ethernet Management	J22	ATCA Zone 2
J42	Serial Port	J23	ATCA Zone 2
J38-J41	Base/Fabric Uplink	J24	ATCA Zone 2
SW1	Reset	J30	ATCA Zone 3 (RTM Connector)
SW2	LED Toggle	J31	ATCA Zone 3 (RTM Connector)
P10	ATCA Power (Zone 1)		

JUMPER SETTINGS

(● Default Setting)

FWPD - Flash Write Enable	
Write Enable	in
● Write Protect	out
IPMC0 - Front Board IPMI Override	
ShMC Bypass	in
● Normal Operation	out
IPMC1 - AMC IPMI Override	
ShMC Bypass	in
● Normal Operation	out
JTAG_AMC - AMC JTAG Integration	
Included in JTAG Chain	in
● Excluded from JTAG Chain	out
JTAG_IPMC - IPMC JTAG	
Restrict JTAG to IPMC	in
● Normal JTAG Operation	out

Symbols Chart

- Out Of Service
- Hot Swap
- Ethernet
- Heart Beat
- Healthy
- Serial Port

LEDs Signification

Ethernet Management

Speed LED (yellow)

OFF 10 Base-T
ON 100 Base-Tx

Status LED (green)

OFF Link Down
ON Link Up and no activity
BLINK Link Up and activity

Fabric and Base Uplink

Speed LED (yellow)

OFF 10 Base-T
BLINK 100 Base-Tx
ON 1000 Base-T

Status LED (green)

OFF Link Down
ON Link Up and no activity
BLINK Link Up and activity

User LEDs

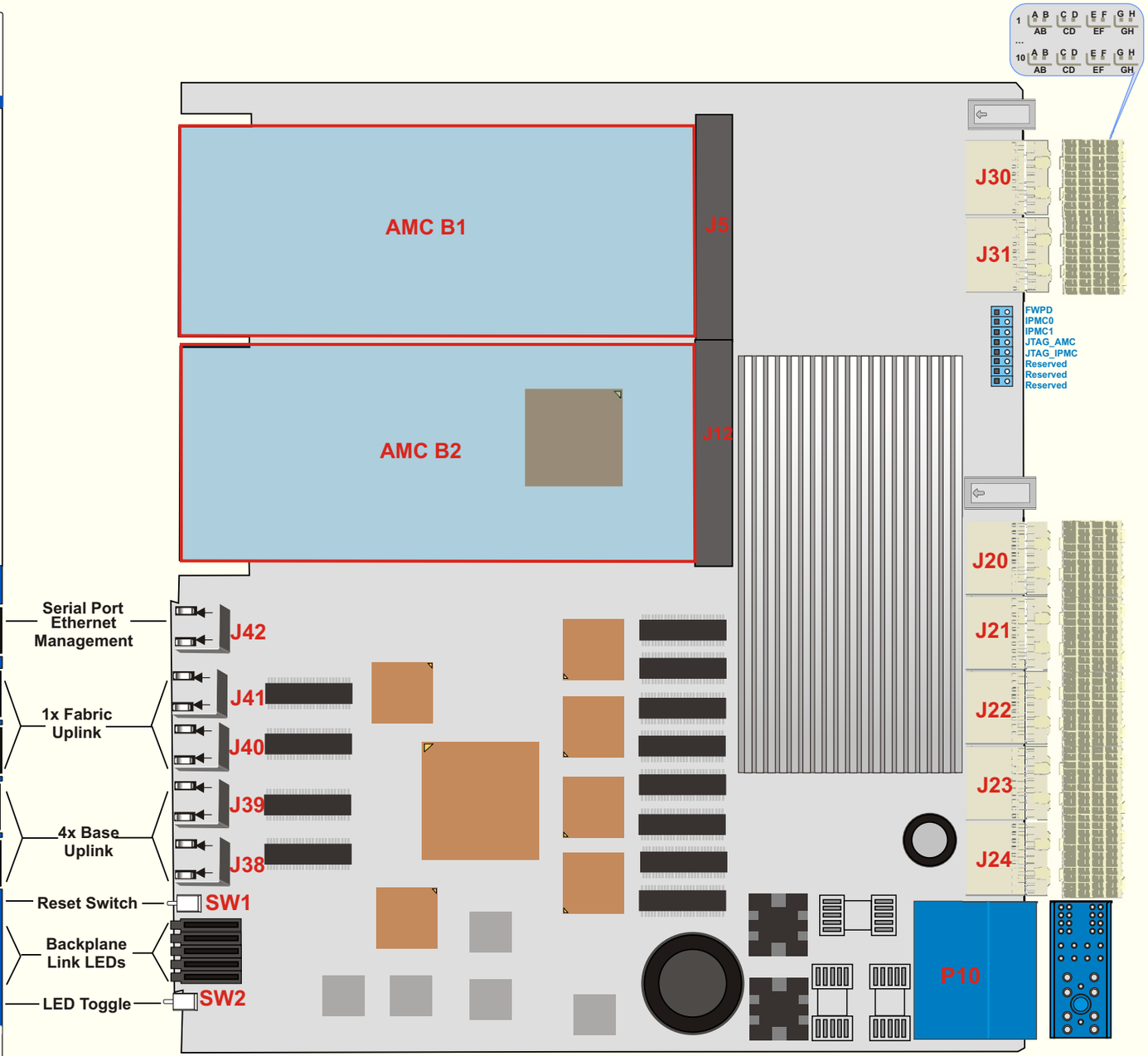
User LED4
- Fabric Switch LEDs selected

User LED3
- Operational
- Initiation
- Fabric Switch Error

User LED2
- Base Switch LEDs selected

User LED1
- Operational
- Initiation
- Base Switch Error





LED Toggle Push Button Usage

Changes display status between base and fabric ports

Connector Pinouts

AT8904M

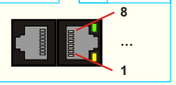
Board Rev. 0

Document version 1.2

J42 - Ethernet (RJ-45)

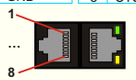
10/100 Management LAN

1	TX+	5	N.C.
2	TX-	6	RX-
3	RX+	7	N.C.
4	N.C.	8	N.C.



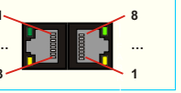
J42 - Serial Port (RJ-45)

1	RTS	5	GND
2	DTR	6	RXD
3	TXD	7	DSR
4	GND	8	CTS



J38-J41 - Base/Fabric Uplink (RJ-45)

1	DB+	5	DD-
2	DB-	6	DA-
3	DA+	7	DC+
4	DD+	8	DC-



P10 - Power (Zone 1)

1	N.C.	2	N.C.
3	N.C.	4	N.C.
5	HA0	6	HA1
7	HA2	8	HA3
9	HA4	10	HA5
11	HA6	12	HA7/P
13	SCL_A	14	SDA_A
15	SCL_B	16	SDA_B
17	MT1_TIP(N.C.)	18	MT2_TIP(N.C.)
19	RING_A(N.C.)	20	RING_B(N.C.)
21	MT1_RING(N.C.)	22	MT2_RING(N.C.)
23	RRTN_A(N.C.)	24	RRTN_B(N.C.)
25	**SHELF_GND**	26	**LOGIC_GND**
27	ENABLE_B	28	VRTN_A
29	VRTN_B	30	EARLY_A
31	EARLY_B	32	ENABLE_A
33	-48V_A	34	-48V_B

Fabric Interface Port Mapping

CLI ID	Channel	LED
0/1	AMC B2 Port 4-7	-
0/2	AMC B2 Port 8-11	-
0/3	FC1	2
0/4	FC2	3
0/5	FC3	4
0/6	FC4	5
0/7	FC5	6
0/8	FC10	11
0/9	FC9	10
0/10	FC8	9
0/11	FC7	8
0/12	FC6	7
0/13	FC15	16
0/14	FC14	15
0/15	FC13	14
0/16	FC12	13
0/17	FC11	12
0/18	AMC B1 Port 8-11	-
0/19	AMC B1 Port 4-7	-
0/20	Uplink Port 1	-

AMC B1 Channel Assignment

Channel	Region	Connection
0	GbE	Local Base Switch 0/21
1	GbE	Remote Base Switch 0/22
2	SATA/FC	AMC B2, channel 2
3	SATA/FC	RTM, STOR0
4	Fabric	10GbE Uplink 0/27[0]
5	Fabric	10GbE Uplink 0/27[1]
6	Fabric	10GbE Uplink 0/27[2]
7	Fabric	10GbE Uplink 0/27[3]
8	Fabric	10GbE Uplink 0/28[0]
9	Fabric	10GbE Uplink 0/28[1]
10	Fabric	10GbE Uplink 0/28[2]
11	Fabric	10GbE Uplink 0/28[3]
12	Extended	-
13	Extended	RTM, AMC_B1_P13
14	Extended	RTM, AMC_B1_P14
15	Extended	RTM, AMC_B1_P15
17	Extended	RTM, AMC_B1_P17
18	Extended	RTM, AMC_B1_P18
19	Extended	RTM, AMC_B1_P19
20	Extended	RTM, AMC_B1_P20
TCLKA	Clock	From Backplane CLK3A
TCLKB	Clock	To Backplane CLK2A or CLK2B
TCLKC	Clock	From Backplane CLK3B
TCLKD	Clock	To Backplane CLK1A or CLK1B
FCLKA	Clock	Fabric Mezzanine Ref. Clock

AMC B2 Channel Assignment

Channel	Region	Connection
0	GbE	Local Base Switch 0/23
1	GbE	-
2	SATA/FC	AMC B1, channel 2
3	SATA/FC	RTM, STOR1
4	Fabric	10GbE Uplink 0/25[0]
5	Fabric	10GbE Uplink 0/25[1]
6	Fabric	10GbE Uplink 0/25[2]
7	Fabric	10GbE Uplink 0/25[3]
8	Fabric	10GbE Uplink 0/26[0]
9	Fabric	10GbE Uplink 0/26[1]
10	Fabric	10GbE Uplink 0/26[2]
11	Fabric	10GbE Uplink 0/26[3]
12	Extended	-
13	Extended	-
14	Extended	-
15	Extended	-
17	Extended	RTM, AMC_B2_P17
18	Extended	RTM, AMC_B2_P18
19	Extended	RTM, AMC_B2_P19
20	Extended	RTM, AMC_B2_P20
TCLKA	Clock	From Backplane CLK3A
TCLKB	Clock	To Backplane CLK2A or CLK2B
TCLKC	Clock	From Backplane CLK3B
TCLKD	Clock	To Backplane CLK1A or CLK1B
FCLKA	Clock	Fabric Mezzanine Ref. Clock

Base Interface Port Mapping

CLI ID	Channel	LED
0/1	Uplink 1	-
0/2	Uplink 2	-
0/3	Uplink 3	-
0/4	Uplink 4	-
0/5	16	16
0/6	15	15
0/7	14	14
0/8	13	13
0/9	12	12
0/10	11	11
0/11	10	10
0/12	9	9
0/13	8	8
0/14	7	7
0/15	6	6
0/16	5	5
0/17	4	4
0/18	3	3
0/19	2	2
0/20	SMCA	1
0/21	Local AMC B1, channel 0	-
0/22	Remote AMC B1, channel 1	-
0/23	Local AMC B2, channel 0	-
0/24	SMCB	1

J5, J12 - AMC B1 & AMC B2

B1	GND	B43	GND	B86	GND	B129	TxD15-
B2	12V	B44	RxD4+	B87	TxD8-	B130	TxD15+
B3	PS1#	B45	RxD4-	B88	TxD8+	B131	GND
B4	MP_3V3	B46	GND	B89	GND	B132	RxD15-
B5	GA0	B47	TxD4+	B90	RxD8-	B133	RxD15+
B6	RSV	B48	TxD4-	B91	RxD8+	B134	GND
B7	GND	B49	GND	B92	GND	B135	TCLKC-
B8	RSV	B50	RxD5+	B93	TxD9-	B136	TCLKC+
B9	12V	B51	RxD5-	B94	TxD9+	B137	GND
B10	GND	B52	GND	B95	GND	B138	TCLKD-
B11	RxD0+	B53	TxD5+	B96	RxD9-	B139	TCLKD+
B12	RxD0-	B54	TxD5-	B97	RxD9+	B140	GND
B13	GND	B55	GND	B98	GND	B141	TxD17-
B14	TxD0+	B56	IPMI_CLK	B99	TxD10-	B142	TxD17+
B15	TxD0-	B57	12V	B100	TxD10+	B143	GND
B16	GND	B58	GND	B101	GND	B144	RxD17-
B17	GA1	B59	RxD6+	B102	RxD10-	B145	RxD17+
B18	12V	B60	RxD6-	B103	RxD10+	B146	GND
B19	GND	B61	GND	B104	GND	B147	TxD18-
B20	RxD1+	B62	TxD6+	B105	TxD11-	B148	TxD18+
B21	RxD1-	B63	TxD6-	B106	TxD11+	B149	GND
B22	GND	B64	GND	B107	GND	B150	RxD18-
B23	TxD1+	B65	RxD7+	B108	RxD11-	B151	RxD18+
B24	TxD1-	B66	RxD7-	B109	RxD11+	B152	GND
B25	GND	B67	GND	B110	GND	B153	TxD19-
B26	GA2	B68	TxD7+	B111	TxD12-	B154	TxD19+
B27	12V	B69	TxD7-	B112	TxD12+	B155	GND
B28	GND	B70	GND	B113	GND	B156	RxD19-
B29	RxD2+	B71	IPMI_DATA	B114	RxD12-(N.C.)	B157	RxD19+
B30	RxD2-	B72	12V	B115	RxD12+(N.C.)	B158	GND
B31	GND	B73	GND	B116	GND	B159	TxD20-
B32	TxD2+	B74	TCLKA+	B117	TxD13-	B160	TxD20+
B33	TxD2-	B75	TCLKA-	B118	TxD13+	B161	GND
B34	GND	B76	GND	B119	GND	B162	RxD20-
B35	RxD3+	B77	TCLKB+	B120	RxD13-	B163	RxD20+
B36	RxD3-	B78	TCLKB-	B121	RxD13+	B164	GND
B37	GND	B79	GND	B122	GND	B165	TCK
B38	TxD3+	B80	FCLKA+	B123	TxD14-	B166	TMS
B39	TxD3-	B81	FCLKA-	B124	TxD14+	B167	TRST#
B40	GND	B82	GND	B125	GND	B168	TDO
B41	ENABLE#	B83	PS0#(GND)	B126	RxD14-	B169	TDI
B42	12V	B84	12V	B127	RxD14+	B170	GND
		B85	GND	B128	GND		

J20 - ATCA Zone 2

	ROW A	AB	ROW B	ROW C	CD	ROW D	ROW E	EF	ROW F	ROW G	GH	ROW H
1	CLK1A+	GND	CLK1A-	CLK1B+	GND	CLK1B-	CLK2A+	GND	CLK2A-	CLK2B+	GND	CLK2B-
2	Tx4(UP)+(N.C.)	GND	Tx4(UP)-(N.C.)	Rx4(UP)+(N.C.)	GND	Rx4(UP)-(N.C.)	CLK3A+	GND	CLK3A-	CLK3B+	GND	CLK3B-
3	Tx2(UP)+(N.C.)	GND	Tx2(UP)-(N.C.)	Rx2(UP)+	GND	Rx2(UP)-	Tx3(UP)+	GND	Tx3(UP)-	Rx3(UP)+(N.C.)	GND	Rx3(UP)-(N.C.)
4	Tx0(UP)+	GND	Tx0(UP)-	Rx0(UP)+	GND	Rx0(UP)-	Tx1(UP)+	GND	Tx1(UP)-	Rx1(UP)+	GND	Rx1(UP)-
5	Tx2[15]+	GND	Tx2[15]-	Rx2[15]+	GND	Rx2[15]-	Tx3[15]+	GND	Tx3[15]-	Rx3[15]+	GND	Rx3[15]-
6	Tx0[15]+	GND	Tx0[15]-	Rx0[15]+	GND	Rx0[15]-	Tx1[15]+	GND	Tx1[15]-	Rx1[15]+	GND	Rx1[15]-
7	Tx2[14]+	GND	Tx2[14]-	Rx2[14]+	GND	Rx2[14]-	Tx3[14]+	GND	Tx3[14]-	Rx3[14]+	GND	Rx3[14]-
8	Tx0[14]+	GND	Tx0[14]-	Rx0[14]+	GND	Rx0[14]-	Tx1[14]+	GND	Tx1[14]-	Rx1[14]+	GND	Rx1[14]-
9	Tx2[13]+	GND	Tx2[13]-	Rx2[13]+	GND	Rx2[13]-	Tx3[13]+	GND	Tx3[13]-	Rx3[13]+	GND	Rx3[13]-
10	Tx0[13]+	GND	Tx0[13]-	Rx0[13]+	GND	Rx0[13]-	Tx1[13]+	GND	Tx1[13]-	Rx1[13]+	GND	Rx1[13]-

J21 - ATCA Zone 2

	ROW A	AB	ROW B	ROW C	CD	ROW D	ROW E	EF	ROW F	ROW G	GH	ROW H
1	Tx2[12]+	GND	Tx2[12]-	Rx2[12]+	GND	Rx2[12]-	Tx3[12]+	GND	Tx3[12]-	Rx3[12]+	GND	Rx3[12]-
2	Tx0[12]+	GND	Tx0[12]-	Rx0[12]+	GND	Rx0[12]-	Tx1[12]+	GND	Tx1[12]-	Rx1[12]+	GND	Rx1[12]-
3	Tx2[11]+	GND	Tx2[11]-	Rx2[11]+	GND	Rx2[11]-	Tx3[11]+	GND	Tx3[11]-	Rx3[11]+	GND	Rx3[11]-
4	Tx0[11]+	GND	Tx0[11]-	Rx0[11]+	GND	Rx0[11]-	Tx1[11]+	GND	Tx1[11]-	Rx1[11]+	GND	Rx1[11]-
5	Tx2[10]+	GND	Tx2[10]-	Rx2[10]+	GND	Rx2[10]-	Tx3[10]+	GND	Tx3[10]-	Rx3[10]+	GND	Rx3[10]-
6	Tx0[10]+	GND	Tx0[10]-	Rx0[10]+	GND	Rx0[10]-	Tx1[10]+	GND	Tx1[10]-	Rx1[10]+	GND	Rx1[10]-
7	Tx2[9]+	GND	Tx2[9]-	Rx2[9]+	GND	Rx2[9]-	Tx3[9]+	GND	Tx3[9]-	Rx3[9]+	GND	Rx3[9]-
8	Tx0[9]+	GND	Tx0[9]-	Rx0[9]+	GND	Rx0[9]-	Tx1[9]+	GND	Tx1[9]-	Rx1[9]+	GND	Rx1[9]-
9	Tx2[8]+	GND	Tx2[8]-	Rx2[8]+	GND	Rx2[8]-	Tx3[8]+	GND	Tx3[8]-	Rx3[8]+	GND	Rx3[8]-
10	Tx0[8]+	GND	Tx0[8]-	Rx0[8]+	GND	Rx0[8]-	Tx1[8]+	GND	Tx1[8]-	Rx1[8]+	GND	Rx1[8]-

J22 - ATCA Zone 2

	ROW A	AB	ROW B	ROW C	CD	ROW D	ROW E	EF	ROW F	ROW G	GH	ROW H
1	Tx2[7]+	GND	Tx2[7]-	Rx2[7]+	GND	Rx2[7]-	Tx3[7]+	GND	Tx3[7]-	Rx3[7]+	GND	Rx3[7]-
2	Tx0[7]+	GND	Tx0[7]-	Rx0[7]+	GND	Rx0[7]-	Tx1[7]+	GND	Tx1[7]-	Rx1[7]+	GND	Rx1[7]-
3	Tx2[6]+	GND	Tx2[6]-	Rx2[6]+	GND	Rx2[6]-	Tx3[6]+	GND	Tx3[6]-	Rx3[6]+	GND	Rx3[6]-
4	Tx0[6]+	GND	Tx0[6]-	Rx0[6]+	GND	Rx0[6]-	Tx1[6]+	GND	Tx1[6]-	Rx1[6]+	GND	Rx1[6]-
5	Tx2[5]+	GND	Tx2[5]-	Rx2[5]+	GND	Rx2[5]-	Tx3[5]+	GND	Tx3[5]-	Rx3[5]+	GND	Rx3[5]-
6	Tx0[5]+	GND	Tx0[5]-	Rx0[5]+	GND	Rx0[5]-	Tx1[5]+	GND	Tx1[5]-	Rx1[5]+	GND	Rx1[5]-
7	Tx2[4]+	GND	Tx2[4]-	Rx2[4]+	GND	Rx2[4]-	Tx3[4]+	GND	Tx3[4]-	Rx3[4]+	GND	Rx3[4]-
8	Tx0[4]+	GND	Tx0[4]-	Rx0[4]+	GND	Rx0[4]-	Tx1[4]+	GND	Tx1[4]-	Rx1[4]+	GND	Rx1[4]-
9	Tx2[3]+	GND	Tx2[3]-	Rx2[3]+	GND	Rx2[3]-	Tx3[3]+	GND	Tx3[3]-	Rx3[3]+	GND	Rx3[3]-
10	Tx0[3]+	GND	Tx0[3]-	Rx0[3]+	GND	Rx0[3]-	Tx1[3]+	GND	Tx1[3]-	Rx1[3]+	GND	Rx1[3]-

The Technical Reference Manual and the Quick Reference can be downloaded from Kontron Web site at: http://www.kontron.com

J23 - ATCA Zone 2

	ROW A	AB	ROW B	ROW C	CD	ROW D	ROW E	EF	ROW F	ROW G	GH	ROW H
1	Tx2[2]+	GND	Tx2[2]-	Rx2[2]+	GND	Rx2[2]-	Tx3[2]+	GND	Tx3[2]-	Rx3[2]+	GND	Rx3[2]-
2	Tx0[2]+	GND	Tx0[2]-	Rx0[2]+	GND	Rx0[2]-	Tx1[2]+	GND	Tx1[2]-	Rx1[2]+	GND	Rx1[2]-
3	Tx2[1]+	GND	Tx2[1]-	Rx2[1]+	GND	Rx2[1]-	Tx3[1]+	GND	Tx3[1]-	Rx3[1]+	GND	Rx3[1]-
4	Tx0[1]+	GND	Tx0[1]-	Rx0[1]+	GND	Rx0[1]-	Tx1[1]+	GND	Tx1[1]-	Rx1[1]+	GND	Rx1[1]-
5	BI_SMCA_Tx1+	GND	BI_SMCA_Tx1-	BI_SMCA_Rx1+	GND	BI_SMCA_Rx1-	BI_SMCB_Tx2+	GND	BI_SMCB_Tx2-	BI_SMCB_Rx2+	GND	BI_SMCB_Rx2-
6	BI_DA2+	GND	BI_DA2-	BI_DB2+	GND	BI_DB2-	BI_DC2+	GND	BI_DC2-	BI_DD2+	GND	BI_DD2-
7	BI_DA3+	GND	BI_DA3-	BI_DB3+	GND	BI_DB3-	BI_DC3+	GND	BI_DC3-	BI_DD3+	GND	BI_DD3-
8	BI_DA4+	GND	BI_DA4-	BI_DB4+	GND	BI_DB4-	BI_DC4+	GND	BI_DC4-	BI_DD4+	GND	BI_DD4-
9	BI_DA5+	GND	BI_DA5-	BI_DB5+	GND	BI_DB5-	BI_DC5+	GND	BI_DC5-	BI_DD5+	GND	BI_DD5-
10	BI_DA6+	GND	BI_DA6-	BI_DB6+	GND	BI_DB6-	BI_DC6+	GND	BI_DC6-	BI_DD6+	GND	BI_DD6-

J24 - ATCA Zone 2

	ROW A	AB	ROW B	ROW C	CD	ROW D	ROW E	EF	ROW F	ROW G	GH	ROW H
1	BI_DA7+	GND	BI_DA7-	BI_DB7+	GND	BI_DB7-	BI_DC7+	GND	BI_DC7-	BI_DD7+	GND	BI_DD7-
2	BI_DA8+	GND	BI_DA8-	BI_DB8+	GND	BI_DB8-	BI_DC8+	GND	BI_DC8-	BI_DD8+	GND	BI_DD8-
3	BI_DA9+	GND	BI_DA9-	BI_DB9+	GND	BI_DB9-	BI_DC9+	GND	BI_DC9-	BI_DD9+	GND	BI_DD9-
4	BI_DA10+	GND	BI_DA10-	BI_DB10+	GND	BI_DB10-	BI_DC10+	GND	BI_DC10-	BI_DD10+	GND	BI_DD10-
5	BI_DA11+	GND	BI_DA11-	BI_DB11+	GND	BI_DB11-	BI_DC11+	GND	BI_DC11-	BI_DD11+	GND	BI_DD11-
6	BI_DA12+	GND	BI_DA12-	BI_DB12+	GND	BI_DB12-	BI_DC12+	GND	BI_DC12-	BI_DD12+	GND	BI_DD12-
7	BI_DA13+	GND	BI_DA13-	BI_DB13+	GND	BI_DB13-	BI_DC13+	GND	BI_DC13-	BI_DD13+	GND	BI_DD13-
8	BI_DA14+	GND	BI_DA14-	BI_DB14+	GND	BI_DB14-	BI_DC14+	GND	BI_DC14-	BI_DD14+	GND	BI_DD14-
9	BI_DA15+	GND	BI_DA15-	BI_DB15+	GND	BI_DB15-	BI_DC15+	GND	BI_DC15-	BI_DD15+	GND	BI_DD15-
10	BI_DA16+	GND	BI_DA16-	BI_DB16+	GND	BI_DB16-	BI_DC16+	GND	BI_DC16-	BI_DD16+	GND	BI_DD16-

J30 - ATCA Zone 3 (RTM Connector)

	ROW A	AB	ROW B	ROW C	CD	ROW D	ROW E	EF	ROW F	ROW G	GH	ROW H
1	N.C.	GND	N.C.	N.C.	GND	N.C.	N.C.	GND	N.C.	STOR0_RX-	GND	STOR0_RX+
2	PROD_IO0	GND	PROD_IO1	N.C.	GND	N.C.	N.C.	GND	N.C.	STOR0_TX-	GND	STOR0_TX+
3	12V	GND	3.3V_SUS	SMB_SCL	GND	SMB_SDA	N.C.	GND	N.C.	STOR1_RX-	GND	STOR1_RX+
4	PROD_IO2	GND	PLD_DOUT	PLD_CLK	GND	PLD_DIN	N.C.	GND	N.C.	STOR1_TX-	GND	STOR1_TX+
5	JTAG_TDO	GND	TEST_JIG#	N.C.	GND	PROD_IO3	N.C.	GND	N.C.	N.C.	GND	N.C.
6	JTAG_TDI	GND	12V	N.C.	GND	N.C.	N.C.	GND	+12V	N.C.	GND	N.C.
7	JTAG_TCK	GND	PROD_IO4	N.C.	GND	N.C.	N.C.	GND	N.C.	N.C.	GND	N.C.
8	JTAG_TMS	GND	JTAG_TRST#	N.C.	GND	N.C.	N.C.	GND	SMB_ALERT#	N.C.	GND	N.C.
9	N.C.	GND	N.C.	N.C.	GND	N.C.	N.C.	GND	N.C.	N.C.	GND	N.C.
10	N.C.	GND	N.C.	N.C.	GND	N.C.	N.C.	GND	N.C.	N.C.	GND	N.C.

J31 - ATCA Zone 3 (RTM Connector)

	ROW A	AB	ROW B	ROW C	CD	ROW D	ROW E	EF	ROW F	ROW G	GH	ROW H
1	N.C.	GND	N.C.	N.C.	GND	N.C.	N.C.	GND	N.C.	N.C.	GND	N.C.
2	N.C.	GND	N.C.	N.C.	GND	N.C.	N.C.	GND	N.C.	N.C.	GND	N.C.
3	N.C.	GND	N.C.	N.C.	GND	N.C.	N.C.	GND	N.C.	N.C.	GND	N.C.
4	N.C.	GND	N.C.	N.C.	GND	N.C.	N.C.	GND	N.C.	N.C.	GND	N.C.
5	AMC_B1_P13_TX+	GND	AMC_B1_P13_TX-	AMC_B1_P13_RX+	GND	AMC_B1_P13_RX-	AMC_B1_P14_TX+	GND	AMC_B1_P14_TX-	AMC_B1_P14_RX+	GND	AMC_B1_P14_RX-
6	AMC_B1_P15_TX+	GND	AMC_B1_P15_TX-	AMC_B1_P15_RX+	GND	AMC_B1_P15_RX-	N.C.	GND	N.C.	N.C.	GND	N.C.
7	AMC_B1_P17_TX+	GND	AMC_B1_P17_TX-	AMC_B1_P17_RX+	GND	AMC_B1_P17_RX-	AMC_B1_P18_TX+	GND	AMC_B1_P18_TX-	AMC_B1_P18_RX+	GND	AMC_B1_P18_RX-
8	AMC_B1_P19_TX+	GND	AMC_B1_P19_TX-	AMC_B1_P19_RX+	GND	AMC_B1_P19_RX-	AMC_B1_P20_TX+	GND	AMC_B1_P20_TX-	AMC_B1_P20_RX+	GND	AMC_B1_P20_RX-
9	AMC_B2_P17_TX+	GND	AMC_B2_P17_TX-	AMC_B2_P17_RX+	GND	AMC_B2_P17_RX-	AMC_B2_P18_TX+	GND	AMC_B2_P18_TX-	AMC_B2_P18_RX+	GND	AMC_B2_P18_RX-
10	AMC_B2_P19_TX+	GND	AMC_B2_P19_TX-	AMC_B2_P19_RX+	GND	AMC_B2_P19_RX-	AMC_B2_P20_TX+	GND	AMC_B2_P20_TX-	AMC_B2_P20_RX+	GND	AMC_B2_P20_RX-

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