

# » AT8940 Quick Reference Sheet «

## Connectors

J1	SM Management Port RJ45
J2, J6	USB SSD Connectors
J3, J12	SATA Connector
J5	SM Serial Interface RJ45
J8	SM USB Connector
J9	Unit Computer Fabric Console Port
J11	ETX Module
J13	Unit Computer Base Console Port
J18	Unit Computer Ethernet Management Port
J20-J24	Zone 2 Connector
J26	SO-UDIMM Connector
J31-J32	RTM Connector
P10	Zone 3 Power Connector
X1	Fabric 1/2 SFP+
X2	Fabric 3/4 SFP+
X3	Base 1/2 SFP+
X4	Base 3/4 SFP+

## Jumper Settings

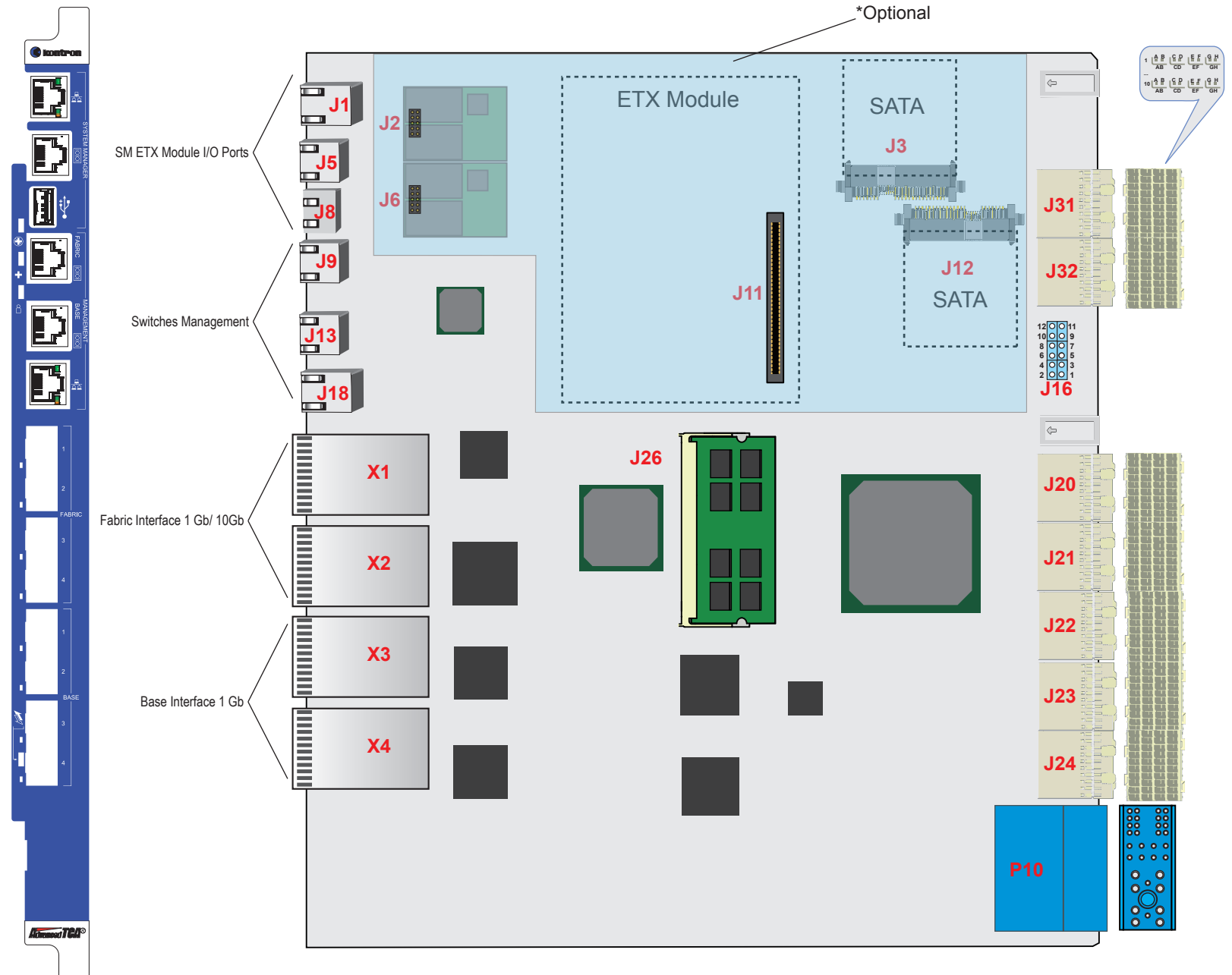
J16 (1-3) Reserved	
*OUT	Reserved
J16 (2-4) IPMC Power Override	
IN	Payload Power Enabled
*OUT	Payload Activation Under IPMC Control
J16 (5-7) IPMC SHMG Override	
IN	IPMC Initiate Payload Power-Up Activation
*OUT	Payload Activation Under SHMG/IPMC Control
J16 (6-8) IPMC RTM Override	
IN	IPMC Initiate RTM Payload Power-Up Activation
*OUT	Payload Activation Under SHMG/IPMC Control
J16 (9-11) Reserved	
*OUT	Reserved
J16 (10-12) Reserved	
*OUT	Reserved

\* Default Configuration

## Symbols Chart

	Hot Swap
	Out of Service
	Healthy
	Serial Port (RJ45)
	User LED
	USB
	LAN

LEDs Signification available on back.



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## X1, X2, X3 & X4 - SFP+ Connectors

1	VeeT	11	VeeR
2	TX_Fault	12	RD-
3	TX_Disable	13	RD+
4	SDA	14	VeeR
5	SCL	15	VccR
6	MOD-ABS	16	VccT
7	Rate Select 0	17	VeeT
8	RX_LOS	18	TD+
9	Rate Select 1	19	TD-
10	VeeR	20	VeeT

## J5, J9 & J13 - RJ45 Serial Port

1	RTS	5	GND
2	DTR	6	RX#
3	TX#	7	DSR
4	GND	8	CTS

## J1 & J18 - Management Port

1	TRD0+	5	TRD2-
2	TRD0-	6	TRD1-
3	TRD1+	7	TRD3+
4	TRD2+	8	TRD3-

## J2 & J6 - USB SSD Connectors

1	VCC	6	N.C.
2	N.C.	7	GND
3	USB_DATA-	8	N.C.
4	N.C.	9	N.C. (Key)
5	USB_DATA+	10	N.C.

## LEDs Significations

### Hot Swap (Blue)

Solid On (100 % on): FRU Inactive  
 Long Blink (90 % on): FRU Activation Request  
 Solid Off (0 % on): FRU Activation In Progress / FRU Active  
 Short Blink (10 % on): FRU Deactivation Request / FRU Deactivation In Progress

### Out of service (Red/Amber) [ default : Red ]

Solid On : MMC in reset  
 Fast Blink (~50 % on): MMC upgrade/rollback in progress  
 Application Defined : May be controlled by application using PICMG API

### Health Led (Amber/Green) [ default : Green ]

Off : Payload power down  
 Green : Health Ok  
 Amber : Health Error (Critical)  
 Application Defined : May be controlled by application using PICMG API

### SFP+ Led (Green)

Green On : Link 10Gbit  
 Green Blink : Activity 10Gbit  
 Amber On : Link 1Gbit  
 Amber Blink : Activity 1Gbit

## J3 & J12 - SATA SSD Connectors

S1	GND	P1	V_3V3
S2	ETX_SATA_TX+	P2	V_3V3
S3	ETX_SATA_TX-	P3	V_3V3
S4	GND	P4	GND
S5	ETX_SATA_RX-	P5	GND
S6	ETX_SATA_RX+	P6	GND
S7	GND	P7	V_5V
S8	GND	P8	V_5V
S9	N.C.	P9	V_5V
S10	N.C.	P10	GND
S11	GND	P11	N.C.
S12	N.C.	P12	GND
S13	N.C.	P13	V_12V
S14	GND	P14	V_12V
		P15	V_12V

## J11 - ETX Module Connector

A1	GND_A1	A56	PCIE_TX4/RSVD_A56 (N.C.)	B1	GND_B1	B56	PCIE_RX4/RSVD_B56 (N.C.)
A2	GBE0_MD13-	A57	GND_A57	B2	GBE0_ACT#	B57	GP02 (N.C.)
A3	GBE0_MD13+	A58	PCIE_TX3+	B3	LPC_FRAME#	B58	PCIE_RX3+
A4	GBE0_LINK100#	A59	PCIE_TX3+	B4	LPC_AD0	B59	PCIE_RX3-
A5	GBE0_LINK1000#	A60	GND_A60	B5	LPC_AD1	B60	GND_B60
A6	GBE0_MD12-	A61	PCIE_TX2+	B6	LPC_AD2	B61	PCIE_RX2+
A7	GND	A62	PCIE_TX2-	B7	LPC_AD3	B62	PCIE_RX2-
A8	GBE0_LINK#	A63	GPI1	B8	LPC_DRQ0#	B63	GP03
A9	GBE0_MD11-	A64	PCIE_TX1+	B9	LPC_DRQ1#	B64	PCIE_RX1+
A10	GBE0_MD11+	A65	PCIE_TX1-	B10	LPC_CLK	B65	PCIE_RX1-
A11	GND_A11	A66	GND_A66	B11	GND_B11	B66	WAKE0#
A12	GBE0_MD10-	A67	GPI2	B12	PWRBTN#	B67	WAKE1#
A13	GBE0_MD10+	A68	PCIE_TX0+	B13	SMB_CLK	B68	PCIE_RX0+
A14	GBE0_CTREF	A69	PCIE_TX0-	B14	SMB_DAT	B69	PCIE_RX0-
A15	SUS_S3#	A70	GND_A70	B15	SMB_ALERT# (N.C.)	B70	GND_B70
A16	SATA0_TX+	A71	LVDS_A0+ (N.C.)	B16	SATA1_TX+	B71	LVDS_B0+/DDIO_PAIR0+ (N.C.)
A17	SATA0_TXSUS	A72	LVDS_A0- (N.C.)	B17	SATA1_TXSUS	B72	LVDS_B0-/DDIO_PAIR0- (N.C.)
A18	S4#	A73	LVDS_A1+ (N.C.)	B18	STAT# (N.C.)	B73	LVDS_B1+/DDIO_PAIR1+ (N.C.)
A19	SATA0_RX+	A74	LVDS_A1- (N.C.)	B19	SATA1_RX+	B74	LVDS_B1-/DDIO_PAIR1- (N.C.)
A20	SATA0_RXGND	A75	LVDS_A2+ (N.C.)	B20	SATA1_RXGND	B75	LVDS_B2+/DDIO_PAIR2+ (N.C.)
A21	A21	A76	LVDS_A2- (N.C.)	B21	B21	B76	LVDS_B2-/DDIO_PAIR2- (N.C.)
A22	SATA2_TX+/RSVD_A22	A77	LVDS_VDD_EN (N.C.)	B22	SATA3_TX+/RSVD_B22	B77	LVDS_B3+/DDIO_PAIR4+ (N.C.)
A23	SATA2_TX-/RSVD_A23	A78	LVDS_A3+ (N.C.)	B23	SATA3_TX-/RSVD_B23	B78	LVDS_B3-/DDIO_PAIR4- (N.C.)
A24	SUS_S5#	A79	LVDS_A3- (N.C.)	B24	PWR_OK	B79	LVDS_BKLT_EN (N.C.)
A25	SATA2_RX+/RSVD_A25	A80	GND_A80	B25	SATA3_RX+/RSVD_B25	B80	GND_B80
A26	SATA2_RX-/RSVD_A26	A81	LVDS_A_CK+ (N.C.)	B26	SATA3_RX-/RSVD_B26	B81	LVDS_B_CK+/DDIO_PAIR3+ (N.C.)
A27	BATLOW#	A82	LVDS_A_CK- (N.C.)	B27	WDT	B82	LVDS_B_CK-/DDIO_PAIR3- (N.C.)
A28	ATA_ACT#	A83	I2C_CK (N.C.)	B28	AC_SDIN2 (N.C.)	B83	LVDS_BKLT_CLK (N.C.)
A29	AC_SYNC	A84	LVDS_I2C_DAT (N.C.)	B29	AC_SDIN1 (N.C.)	B84	VCC_5V_SBY_B84
A30	AC_RST#	A85	GPI3	B30	AC_SDIN0 (N.C.)	B85	VCC_5V_SBY_B85
A31	GND_A31	A86	KBD_RTS#/RSVD_A86 (N.C.)	B31	GND_B31	B86	VCC_5V_SBY_B86
A32	AC_BITCLK	A87	KBD_A20GATE/RSVD_A87 (N.C.)	B32	SPKR	B87	VCC_5V_SBY_B87
A33	AC_SDOUT	A88	PCIE_CK_REF+	B33	I2C_CK (N.C.)	B88	RSVD_B88 (N.C.)
A34	BIOS_DISABLE#	A89	PCIE_CK_REFGND	B34	I2C_DAT (N.C.)	B89	VGA_RED/DD10_HPD
A35	THRMTRIP#	A90	90	B35	THRM#	B90	GND_B90
A36	USB6- (N.C.)	A91	RSVD_A91 (N.C.)	B36	USB7- (N.C.)	B91	VGA_GRN/DD10_PAIR5+
A37	USB6+ (N.C.)	A92	RSVD_A92 (N.C.)	B37	USB7+ (N.C.)	B92	VGA_BLU/DD10_PAIR5-
A38	USB_6_7_OC# (N.C.)	A93	GP00	B38	USB_4_5_OC# (N.C.)	B93	VGA_HSYNC/DD10_PAIR6+
A39	USB4- (N.C.)	A94	RSVD_A94 (N.C.)	B39	USB5- (N.C.)	B94	VGA_VSYNC/DD10_PAIR6-
A40	USB4+ (N.C.)	A95	RSVD_A95 (N.C.)	B40	USB5+ (N.C.)	B95	VGA_I2C_CK/DD10_CTRL_CLK
A41	GND_A41	A96	GND_A96	B41	GND_B41	B96	VGA_I2C_DAT/DD10_CTRL_DAT
A42	USB2-	A97	VCC_12V_A97	B42	USB3- (N.C.)	B97	TV_DAC_A (N.C.)
A43	USB2+	A98	VCC_12V_A98/RS1_TX	B43	USB3+ (N.C.)	B98	TV_DAC_B/DD10_AUX+ (N.C.)
A44	USB_2_3_OC#	A99	VCC_12V_A99/RS1_RX	B44	USB_0_1_OC# (N.C.)	B99	TV_DAC_C/DD10_AUX (N.C.)
A45	USB0-	A100	GND_A100	B45	USB1-	B100	GND_B100
A46	USB0+	A101	VCC_12V_A101/RS2_TX	B46	USB1+	B101	VCC_12V_B101/FAN_PWMOUNT
A47	VCC_RTC	A102	VCC_12V_A102/RS2_RX	B47	EXCD1_PERST	B102	VCC_12V_B102/FAN_TACHIN
A48	EXCD0_PERST# (N.C.)	A103	VCC_12V_A103/LID#	B48	EXCD1_CPPE#	B103	VCC_12V_B103/SLEEP#
A49	EXCD0_CPPE# (N.C.)	A104	VCC_12V_A104	B49	SYS_RESET#	B104	VCC_12V_B104
A50	LPC_SERIRQ	A105	VCC_12V_A105	B50	CB_RESET	B105	VCC_12V_B105
A51	GND_A51	A106	VCC_12V_A106	B51	GND_B51	B106	VCC_12V_B106
A52	PCIE_TX5+/RSVD_A52 (N.C.)	A107	VCC_12V_A107	B52	PCIE_RX5+/RSVD_B52 (N.C.)	B107	VCC_12V_B107
A53	PCIE_TX5-/RSVD_A53 (N.C.)	A108	VCC_12V_A108	B53	PCIE_RX5-/RSVD_B53 (N.C.)	B108	VCC_12V_B108
A54	GPI0	A109	VCC_12V_A109	B54	GP01 (N.C.)	B109	VCC_12V_B109
A55	PCIE_TX4+/RSVD_A55 (N.C.)	A110	GND_A110	B55	PCIE_RX4+/RSVD_B55 (N.C.)	B110	GND_B110

## Base Switch Port Assignment

CLI Port	Mode	Speed	Connection
0/1	SerDes/XAUI	1G/10G	BI.SFP+ 1
0/2	SerDes/XAUI	1G/10G	BI.SFP+ 2
0/3	SerDes/XAUI	1G/10G	BI.SFP+ 3
0/4	SerDes/XAUI	1G/10G	BI.SFP+ 4
0/5	SGMII/SerDes	1000Base-xX (fiber) 10/100/1000Base-T/-Tx/-T	BI.SFP RTM 1
0/6	SGMII/SerDes	1000Base-xX (fiber) 10/100/1000Base-T/-Tx/-T	BI.SFP RTM 2
0/7	SGMII/SerDes	1000Base-xX (fiber) 10/100/1000Base-T/-Tx/-T	BI.SFP RTM 3
0/8	SerDes	1000Base-KX	P2020 eTSEC 2
0/9	SGMII/SerDes	10/100Base-T/-TX / 1000Base-KX	IPMI/Update Channel
0/10	SGMII	10/100Base-T/-TX	ShMC A
0/11	SGMII	10/100Base-T/-TX	ShMC B
0/12	SGMII	10/100/1000Base-T/-Tx/-T	BI.2
0/13	SGMII	10/100/1000Base-T/-Tx/-T	BI.3
0/14	SGMII	10/100/1000Base-T/-Tx/-T	BI.4
0/15	SGMII	10/100/1000Base-T/-Tx/-T	BI.5
0/16	SGMII	10/100/1000Base-T/-Tx/-T	BI.6
0/17	SGMII	10/100/1000Base-T/-Tx/-T	BI.7
0/18	SGMII	10/100/1000Base-T/-Tx/-T	BI.8
0/19	SGMII	10/100/1000Base-T/-Tx/-T	BI.9
0/20	SGMII	10/100/1000Base-T/-Tx/-T	BI.10
0/21	SGMII	10/100/1000Base-T/-Tx/-T	BI.11
0/22	SGMII	10/100/1000Base-T/-Tx/-T	BI.12
0/23	SGMII	10/100/1000Base-T/-Tx/-T	BI.13
0/24	SGMII	10/100/1000Base-T/-Tx/-T	BI.14
0/25	SGMII	10/100/1000Base-T/-Tx/-T	BI.15
0/26	SGMII	10/100/1000Base-T/-Tx/-T	BI.16
0/27	SerDes	1000Base-KX	System Manager Port 1
0/28	SerDes	1000Base-KX	Redundant System Manager Port 2

## Fabric Switch Port Assignment

CLI Port	AT8910 Type / Speed
0/1	SFP + 1/10GbE
0/2	SFP + 1/10GbE
0/3	SFP + 1/10GbE
0/4	SFP + 1/10GbE
0/5	1- Hub 1/10GbE
0/6	2- Node-Board 1/10GbE
0/7	3- Node-Board 1/10GbE
0/8	4- Node-Board 1/10GbE
0/9	5- Node-Board 1/10GbE
0/10	6- Node-Board 1/10GbE
0/11	7- Node-Board 1/10GbE
0/12	8- Node-Board 1/10GbE
0/13	9- Node-Board 1/10GbE
0/14	10- Node-Board 1/10GbE
0/15	11- Node-Board 1/10GbE
0/16	12- Node-Board 1/10GbE
0/17	13- Node-Board 1/10GbE
0/18	14- Node-Board 1/10GbE
0/19	15- Node-Board 1/10GbE
0/20	RTM SFP+ Fi2.1 1/10 GbE
0/21	RTM SFP+ Fi2.2 1/10 GbE
0/22	RTM SFP+ Fi2.3 1/10 GbE
0/23	RTM SFP+ Fi2.4 1/10 GbE

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