RTM8050

Rear I/O

Board Rev. 0

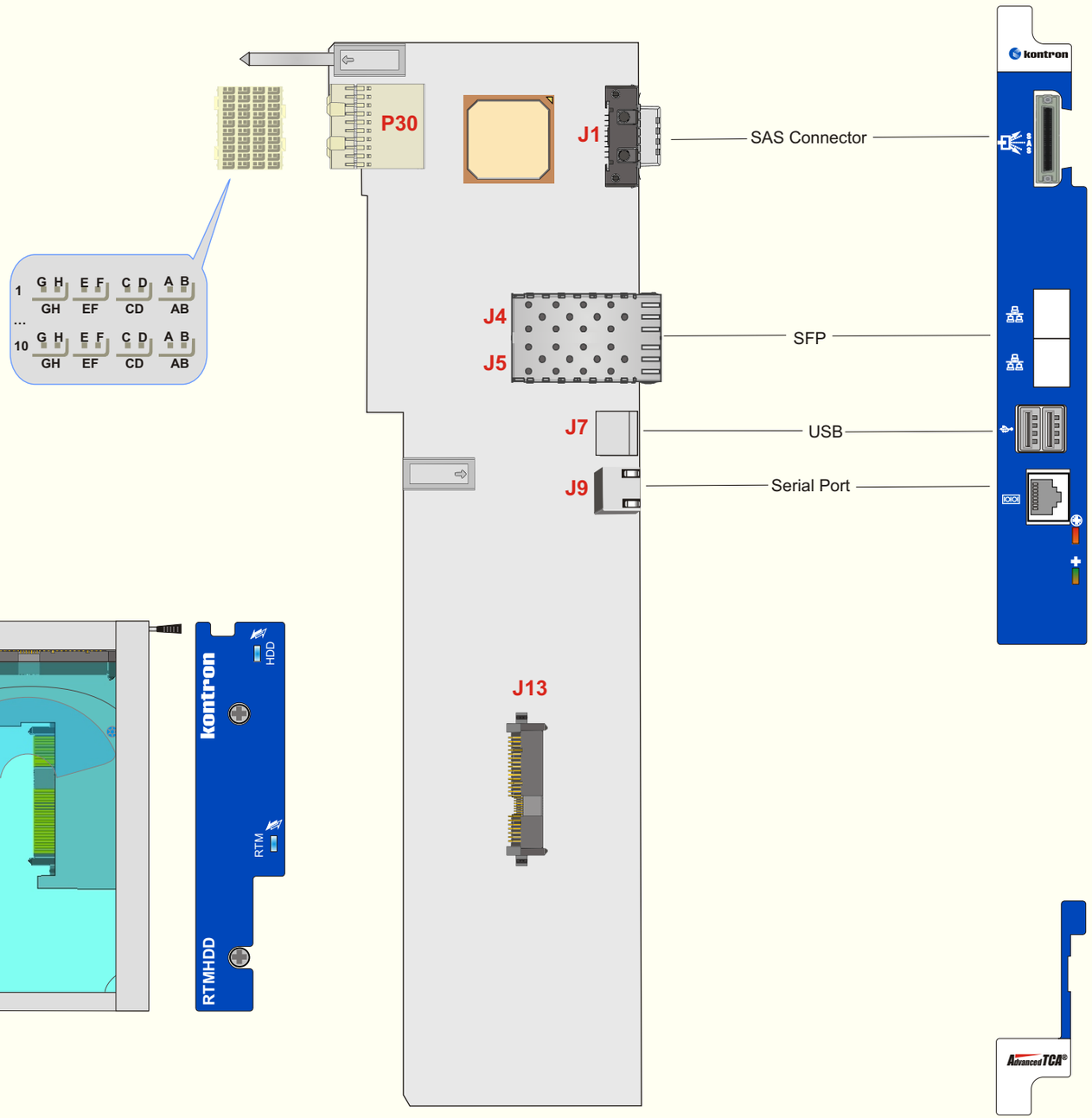
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QUICK REFERENCE

Document version 1.1

CONNECTORS

J1	SAS Expansion
J4	SFP Port 1
J5	SFP Port 0
J7	USB (2x stacked)
J9	Serial Port (COM2)
J13	SAS/SATA (Hot Swappable)
P30	RTM



Symbols Chart

- Out Of Service
- Hot Swap
- Ethernet
- Serial Port
- Health
- SAS
- USB

LEDs Signification

Hot Swap (Blue)

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

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

Solid On : IPMC in reset
Fast Blink (~50 % on): IPMC upgrade/rollback in progress
Short Blink (10 % on): FRU Power Denied
Application Defined : May be controlled by application using PICMG API

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

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

Connector Pinouts

RTM8050

Board Rev. 0

J1 - SAS Connector

S1	RX_0+
S2	RX_0-
S3	RX_1+
S4	RX_1-
S5	RX_2+
S6	RX_2-
S7	RX_3+
S8	RX_3-
S9	TX_3-
S10	TX_3+
S11	TX_2-
S12	TX_2+
S13	TX_1-
S14	TX_1+
S15	TX_0-
S16	TX_0+

J4 & J5 - SFP Fabric Interface Ethernet Uplink (GbE)

1	VEET_1	11	VEER_3	21	CGND_1
2	TX_FAULT	12	RD-	22	CGND_2
3	TX_DIS	13	RD+	23	CGND_3
4	MODDEF2	14	VEER_4	24	CGND_4
5	MODDEF1	15	VCCR	25	CGND_5
6	MODDEF0	16	VCCT	26	CGND_6
7	R_SEL (N.C.)	17	VEET_2	27	CGND_7
8	LOS	18	TD+	28	CGND_8
9	VEER1	19	TD-	29	CGND_9
10	VEER2	20	VEET_3	30	CGND_10
				31	CGND_11

P30 - ATCA I/O

	ROW A	AB	ROW B	ROW C	CD	ROW D	ROW E	EF	ROW F	ROW G	GH	ROW H
1	V_12V_1	GND	V_12V_5	V_12V_2	GND	V_3V3_SUS	FPGA_IO_3	GND	RTM_PRNT#	FPGA_IO_1	GND	RTM_EN#
2	V_12V_3	GND	V_12V_6	V_12V_4	GND	N.C.	IPMC_SCL	GND	IPMC_SDA	USB0_D+	GND	USB0_D-
3	SP_TX	GND	SP_RX	JTAG_TDI	GND	JTAG_TDO	JTAG_TMS	GND	JTAG_TCK	JTAG_TRST	GND	FPGA_IO_2
4	USB1_D+	GND	USB1_D-	INT_0	GND	INT_1	RTML_TX	GND	RTML_RX	RTML_CLK	GND	PROG
5	SP_RTS#	GND	SP_CTS#	MD2#	GND	RSV	CLK_PE+	GND	CLK_PE-	RSV	GND	JTAG_SEL
6	SATA_TX+	GND	SATA_TX-	SATA_RX+	GND	SATA_RX-	SFP1_SCL	GND	SFP1_SDA	SFP0_SCL	GND	SFP0_SDA
7	SAS_0_TX+	GND	SAS_0_TX-	SAS_0_RX+	GND	SAS_0_RX-	SAS_1_TX-	GND	SAS_1_TX+	SAS_1_RX+	GND	SAS_1_RX-
8	GBE_TX1+	GND	GBE_TX1-	GBE_RX1+	GND	GBE_RX1-	GBE_TX2+	GND	GBE_TX2-	GBE_RX2+	GND	GBE_RX2-
9	PE6_TX-	GND	PE6_TX+	PE7_RX-	GND	PE7_RX+	PE5_TX+	GND	PE5_TX-	PE6_RX+	GND	PE6_RX-
10	PE4_TX-	GND	PE4_TX+	PE5_RX+	GND	PE5_RX-	PE7_TX+	GND	PE7_TX-	PE4_RX-	GND	PE4_RX+

J9 - Serial Port

1	RTS.	5	N.C.
2	GND	6	RX#
3	TX#	7	N.C.
4	GND	8	CTS

J7 - USB

1	VCC
2	DATA-
3	DATA+
4	GND

J13 - SAS

S1	GND	P1	3.3V_SUS_HD
S2	PortA_TX+	P2	3.3V
S3	PortA_TX-	P3	3.3V_PRE
S4	GND	P4	SMB_SCL
S5	PortA_RX-	P5	HD_PRESENT#
S6	PortA_RX+	P6	GND
S7	GND	P7	5V_PRE
S8	GND	P8	5V
S9	PortB_TX+	P9	5V
S10	PortB_TX-	P10	V_PUMP_R
S11	GND	P11	SMB_SDA
S12	PortB_RX-	P12	GND
S13	PortB_RX+	P13	12V_PRE
S14	GND	P14	12V
		P15	12V

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

1022-8785

Document version 1.1