

# RTM8030



Rear I/O

Board Rev. 1

**QUICK REFERENCE**  
Document version 1.2

## CONNECTORS

J2	SAS Faceplate Connector
J3	USB Connector
J6B	Serial Port (RJ-45) (CPU0 Only)
J6C	Serial Port (RJ-45) (CPU1, CPU2 & ES)
J6D	Ethernet
J7	SFP Fabric Interface Ethernet Uplink (GbE)
J10	SAS Hard Disk Connector
SW1	Rotary Switch
SW3	Reset Switch 0
SW5	Reset Switch 1-3
P30	ATCA I/O

## JUMPER SETTINGS

( ● Default Setting)

JP4 - SAS Output	
SAS External Connector	in
Onboard SAS HDD	out

Switch		
Rotary Switch Position	Reset Switch Activated	RS-232 Port Activated
0	SW5 Not Used	J6C Not Used
1	SW5 CPU1	J6C CPU1 COM1
2	SW5 CPU2	J6C CPU2 COM1
3	SW5 ES	J6C ES UART0
4	SW5 Not Used	J6C AMC Bay
5	SW5 Not Used	J6C CPU0 COM2
6	SW5 Not Used	J6C CPU1 COM2
7	SW5 Not Used	J6C CPU2 COM2
ANY	SW3 CPU0	J6B CPU0 COM1

## Symbols Chart

Out Of Service	Health
Hot Swap	SAS
Management Led (IPMC)	USB
Serial Port	Ethernet

## 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 ]

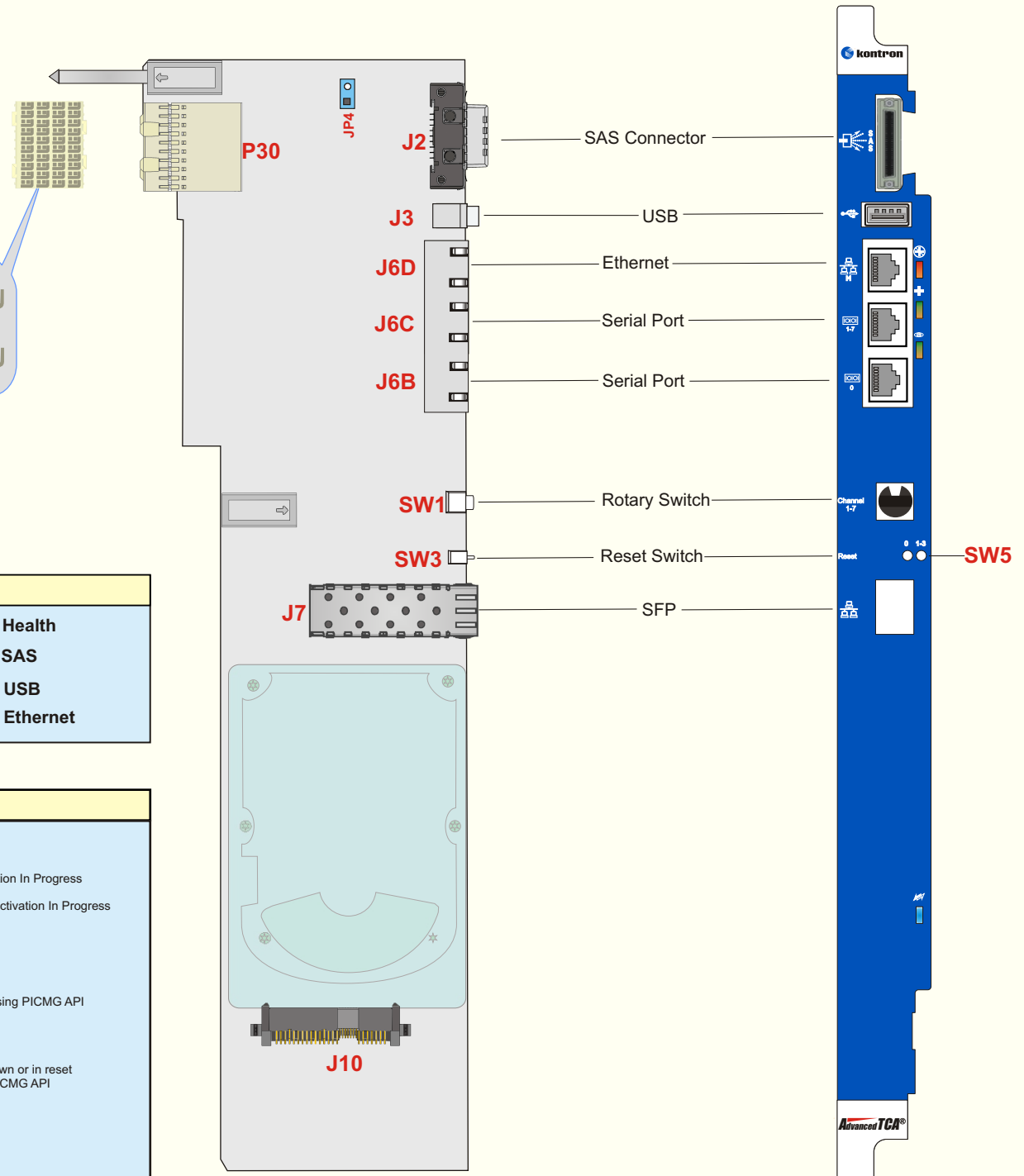
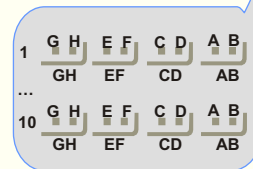
Solid On	: IPMC in reset
Fast Blink	( ~50 % on): IPMC upgrade/rollback in progress
Short Blink	( 10 % on): FRU Power Denied
Application Defined	: May be controlled by application using PICMG API

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

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

### Management (IPMI activity) [ green/amber ]

Green Pulse	: IPMI Heartbeat
Amber Pulse	: IPMI Attention Flag (event pending)
Amber Fast Blink	: IPMI IPMB Activity



Advanced TCA®

# Connector Pinouts

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## J6B & J6C - Serial Port

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

## J6D - Ethernet

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

## J10 - SAS

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

## J2 - SAS Connector

S1	RX_0+
S2	RX_0-
S3	RX_1+
S4	RX_1-
S5	N.C.
S6	N.C.
S7	N.C.
S8	N.C.
S9	N.C.
S10	N.C.
S11	N.C.
S12	N.C.
S13	TX_1-
S14	TX_1+
S15	TX_0-
S16	TX_0+

## J3 - USB0

1	USB0:VCC
2	USB0:DATA-
3	USB0:DATA+
4	USB0:GND

## 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	ACPI3_RST#	GND	RTM_PRNT#	N.C.	GND	RTM_EN#
2	V_12V_3	GND	V_12V_6	V_12V_4	GND	N.C.	MMC_SCL	GND	MMC_SDA	USB_D+	GND	USB_D-
3	RS232_0_TX	GND	RS232_0_RX	JTAG_TDI	GND	JTAG_TDO	JTAG_TMS	GND	JTAG_TCK	JTAG_TRST	GND	N.C.
4	SOCA	GND	SOCB	INT_0	GND	INT_1	RTML_TX	GND	RTML_RX	RTML_CLK	GND	RESET
5	RS232_1_TX	GND	RS232_1_RX	RS232_2_TX	GND	RS232_2_RX	RS232_3_TX	GND	RS232_3_RX	RS232_4_TX	GND	RS232_4_RX
6	RS232_5_TX	GND	RS232_5_RX	RS232_6_TX	GND	RS232_6_RX	RS232_7_TX	GND	RS232_7_RX	UC_SCL	GND	UC_SDA
7	DEBUG_0#	GND	DEBUG_1#	DEBUG_2#	GND	DEBUG_3#	RESET_0#	GND	RESET_1#	RESET_2#	GND	RESET_3#
8	100BASE_TX+	GND	100BASE_TX-	100BASE_RX+	GND	100BASE_RX-	100BASE_CT	GND	N.C.	N.C.	GND	N.C.
9	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-
10	1000BX_TX1+	GND	1000BX_TX1-	1000BX_RX1+	GND	1000BX_RX1-	1000BX_TX2+	GND	1000BX_TX2-	1000BX_RX2+	GND	1000BX_RX2-

## J7 - 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	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

For Technical Support  
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- Internet : [www.kontron.com](http://www.kontron.com)
- E-Mail : [support@ca.kontron.com](mailto:support@ca.kontron.com)
- Fax : (450) 437-8053
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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/>

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