

# AM450x

AdvancedMC SATA Storage Module



Board Rev. 2

**QUICK REFERENCE**  
Document version 3.1

## First Level Debugging



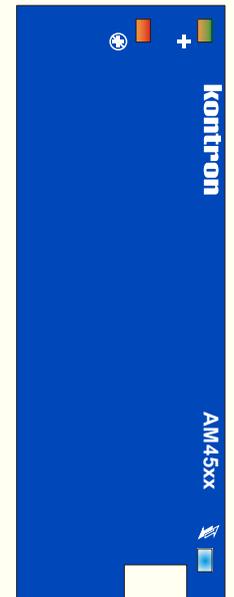
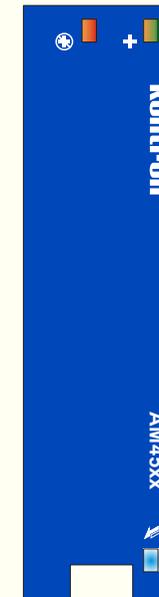
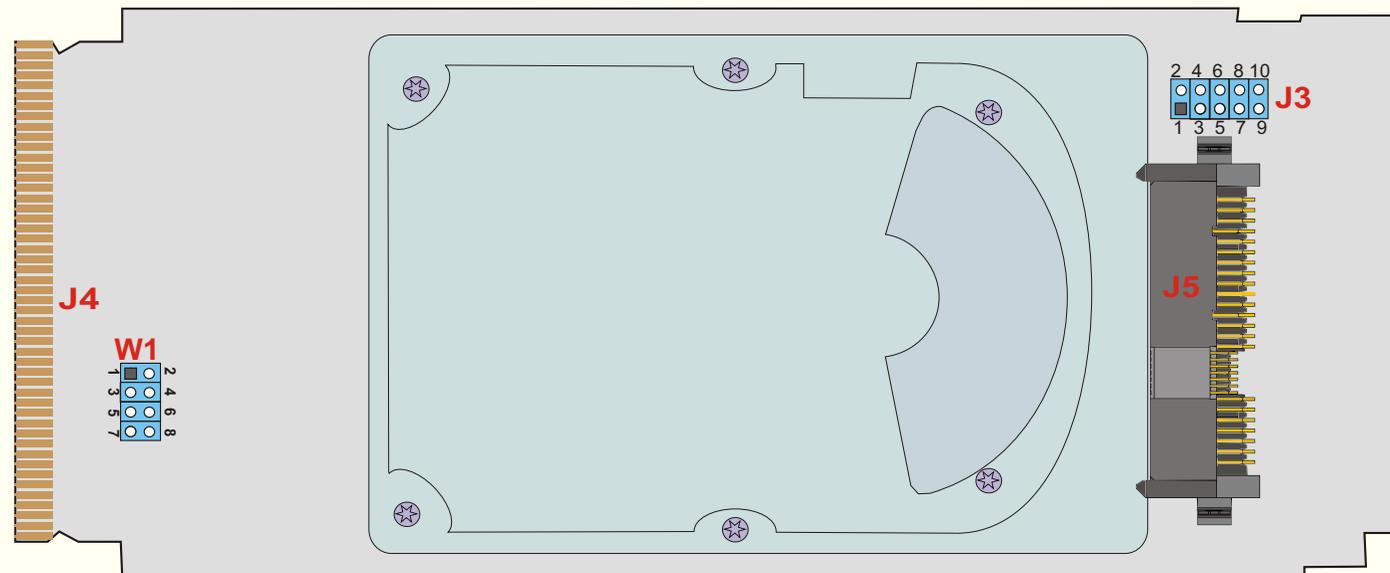
1. If the hard drive detection fails, check if the AMC card is properly inserted and verify the HDD configuration in the BIOS setting.

## CONNECTORS

J3	Reserved
J4	AMC Connector
J5	SATA Disk Connector

## JUMPER SETTINGS (● Default Setting)

● W1 1-2 - Reserved	
● Reserved	out
● W1 3-4 - Reserved	
● Reserved	out
● W1 5-6 - Reserved	
● Reserved	out
● W1 7-8 - Reserved	
● Reserved	out



## Symbols Chart

- Hot Swap
- Out Of Service
- Healthy

LEDs Signification available on back.

# Connector Pinouts

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## ◆ J5 - Serial ATA

S1	GND	P1	3.3V
S2	TX+	P2	3.3V
S3	TX-	P3	3.3V
S4	GND	P4	GND
S5	RX-	P5	GND
S6	RX+	P6	GND
S7	GND	P7	5V
		P8	5V
		P9	5V
		P10	GND
		P11	RSV
		P12	GND
		P13	12V
		P14	12V
		P15	12V

## LEDs Signification

### Hot Swap (Blue)

Solid On (100 % on): FRU Inactive  
 Long Blink (90 % on): FRU Activation Request  
 Solif 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 : 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 & HDD Activity (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  
 Blink : HDD Activity

## For Technical Support please contact:

### North America / Asia - Pacific

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2. Tel : (800) 354-4223
3. Fax : (450) 437-8053

### EMEA

1. E-Mail : support-kom@kontron.com
2. Tel : +49-8341-803-333
3. Fax : +49-8341-803-339

## ◆ J4 - AMC Connector

B1	GND	B43	GND	B86	GND	B129	RxD15-(N.C.)
B2	12V	B44	TxD4+(N.C.)	B87	RxD8-(N.C.)	B130	RxD15+(N.C.)
B3	PS1#	B45	TxD4-(N.C.)	B88	RxD8+(N.C.)	B131	GND
B4	MP_3V3	B46	GND	B89	GND	B132	TxD15-(N.C.)
B5	GA0	B47	RxD4+(N.C.)	B90	TxD8-(N.C.)	B133	TxD15+(N.C.)
B6	N.C.	B48	RxD4-(N.C.)	B91	TxD8+(N.C.)	B134	GND
B7	GND	B49	GND	B92	GND	B135	RxD16-(N.C.)
B8	N.C.	B50	TxD5+(N.C.)	B93	RxD9-(N.C.)	B136	RxD16+(N.C.)
B9	12V	B51	TxD5-(N.C.)	B94	RxD9+(N.C.)	B137	GND
B10	GND	B52	GND	B95	GND	B138	TxD16-(N.C.)
B11	TxD0+(N.C.)	B53	RxD5+(N.C.)	B96	TxD9-(N.C.)	B139	TxD16+(N.C.)
B12	TxD0-(N.C.)	B54	RxD5-(N.C.)	B97	TxD9+(N.C.)	B140	GND
B13	GND	B55	GND	B98	GND	B141	RxD17-(N.C.)
B14	RxD0+(N.C.)	B56	IPMI_CLK	B99	RxD10-(N.C.)	B142	RxD17+(N.C.)
B15	RxD0-(N.C.)	B57	12V	B100	RxD10+(N.C.)	B143	GND
B16	GND	B58	GND	B101	GND	B144	TxD17-(N.C.)
B17	GA1	B59	TxD6+(N.C.)	B102	TxD10-(N.C.)	B145	TxD17+(N.C.)
B18	12V	B60	TxD6-(N.C.)	B103	TxD10+(N.C.)	B146	GND
B19	GND	B61	GND	B104	GND	B147	RxD18-(N.C.)
B20	TxD1+(N.C.)	B62	RxD6+(N.C.)	B105	RxD11-(N.C.)	B148	RxD18+(N.C.)
B21	TxD1-(N.C.)	B63	RxD6-(N.C.)	B106	RxD11+(N.C.)	B149	GND
B22	GND	B64	GND	B107	GND	B150	TxD18-(N.C.)
B23	RxD1+(N.C.)	B65	TxD7+(N.C.)	B108	TxD11-(N.C.)	B151	TxD18+(N.C.)
B24	RxD1-(N.C.)	B66	TxD7-(N.C.)	B109	TxD11+(N.C.)	B152	GND
B25	GND	B67	GND	B110	GND	B153	RxD19-(N.C.)
B26	GA2	B68	RxD7+(N.C.)	B111	RxD12-(N.C.)	B154	RxD19+(N.C.)
B27	12V	B69	RxD7-(N.C.)	B112	RxD12+(N.C.)	B155	GND
B28	GND	B70	GND	B113	GND	B156	TxD19-(N.C.)
B29	TxD2+(SATA)	B71	IPMI_DATA	B114	TxD12-(N.C.)	B157	TxD19+(N.C.)
B30	TxD2-(SATA)	B72	12V	B115	TxD12+(N.C.)	B158	GND
B31	GND	B73	GND	B116	GND	B159	RxD20-(N.C.)
B32	RxD2+(SATA)	B74	CLKA+(N.C.)	B117	RxD13-(N.C.)	B160	RxD20+(N.C.)
B33	RxD2-(SATA)	B75	CLKA-(N.C.)	B118	RxD13+(N.C.)	B161	GND
B34	GND	B76	GND	B119	GND	B162	TxD20-(N.C.)
B35	TxD3+(N.C.)	B77	CLKB+(N.C.)	B120	TxD13-(N.C.)	B163	TxD20+(N.C.)
B36	TxD3-(N.C.)	B78	CLKB-(N.C.)	B121	TxD13+(N.C.)	B164	GND
B37	GND	B79	GND	B122	GND	B165	TCLK
B38	RxD3+(N.C.)	B80	CLKC+(N.C.)	B123	RxD14-(N.C.)	B166	TMS
B39	RxD3-(N.C.)	B81	CLKC-(N.C.)	B124	RxD14+(N.C.)	B167	TRST#
B40	GND	B82	GND	B125	GND	B168	TDO
B41	ENABLE#	B83	PS0#	B126	TxD14-(N.C.)	B169	TDI
B42	12V	B84	12V	B127	TxD14+(N.C.)	B170	GND
		B85	GND	B128	GND		

The Quick Reference Sheet can be downloaded from the Kontron web site at:  
<http://www.kontron.com>  
 or from Kontron FTP site at:  
<ftp://ftp.kontron.ca/Support/>

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