

ETXexpress Eval Type 3

Evaluation Carrier Board

38200-0000-00-0/1

Quick Reference

Introduction

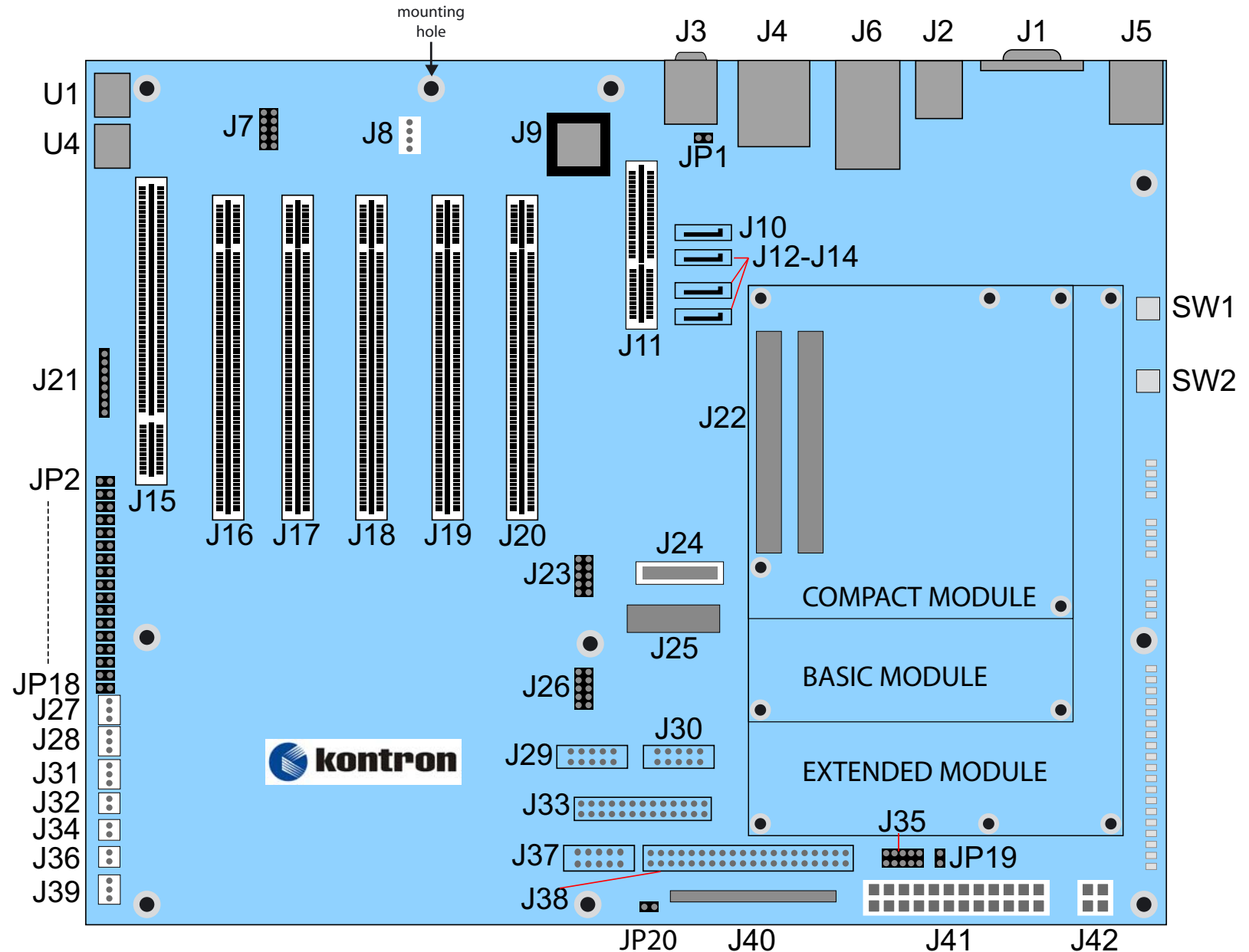
This Quick Reference Guide provides Jumper and Connector locations for the ETXexpress Eval Type 3, an ETXexpress (ETXe) Carrier Board designed by Kontron to host ETXexpress Type 2 and Type 3 Modules. You can find Connector and Jumper names and descriptions on the next page. For complete information on Carrier Board design, pin-outs, connectors, and Module Types 2 and 3, please refer to the Design Guide for ETXexpress Carrier Boards, which you can obtain from your local Kontron America sales office. Please refer to individual ETXexpress Module User Guides for more information. They also are available on the Kontron Web site.

Getting Started

The following information explains how to set up your ETXexpress Eval Type 3 Carrier Board and ETXexpress-WPM, a Type 3 Module.

1. In an ESD-protected area, remove the ETXexpress Carrier Board and ETXexpress Module from their packaging.
2. If necessary, install memory and a processor on the ETXexpress Module.
3. Depending on your application, attach a fan, a heat sink, and a heat-spreader plate to the Module if needed.
4. Insert the ETXexpress Module into Connector J22 on the Carrier Board.
5. Plug the ATX power supply into a surge protector that is plugged into an electrical outlet. Make sure that the external Power Supply is in the "Off" position.
6. Insert the ATX power cable into Connector J41 on the Carrier Board. Insert the AUX power (+12V) cable into Connector J42 to power the ETXexpress Module.
7. Disable the Carrier Board's BIOS by removing the jumper on Connector J16.
8. Insert a keyboard (bottom) and a mouse (top) into the PS/2 connectors (J5).
9. On the Carrier Board, plug in a storage device to the appropriate Connector: Compact Flash (J40), IDE hard drive (J38), and SATA (J10, J12, J13, J14).
10. Turn on power.

Connector & Switch Locations:



➤ Jumpers:

Jumper	Description																																								
JP1	Firmware Hub Write-Protection for both Module and Baseboard FWH's																																								
JP2 JP3	PCI SLOT IDSEL & INT SIGNAL SELECT JP2 = S3, JP3 = S2 <table border="1"> <thead> <tr> <th>Emulate Slot#</th> <th>Shunt S3</th> <th>Shunt S2</th> <th>Signal IDSEL</th> <th>Signal INTA#</th> <th>Signal INTB#</th> <th>Signal INTC#</th> <th>Signal INTD#</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> <td>AD[20]</td> <td>INTA#</td> <td>INTB#</td> <td>INTC#</td> <td>INTD#</td> </tr> <tr> <td>1</td> <td>0</td> <td>1</td> <td>AD[21]</td> <td>INTB#</td> <td>INTC#</td> <td>INTD#</td> <td>INTA#</td> </tr> <tr> <td>2</td> <td>1</td> <td>0</td> <td>AD[22]</td> <td>INTC#</td> <td>INTD#</td> <td>INTA#</td> <td>INTB#</td> </tr> <tr> <td>3</td> <td>1</td> <td>1</td> <td>AD[23]</td> <td>INTD#</td> <td>INTA#</td> <td>INTB#</td> <td>INTC#</td> </tr> </tbody> </table>	Emulate Slot#	Shunt S3	Shunt S2	Signal IDSEL	Signal INTA#	Signal INTB#	Signal INTC#	Signal INTD#	0	0	0	AD[20]	INTA#	INTB#	INTC#	INTD#	1	0	1	AD[21]	INTB#	INTC#	INTD#	INTA#	2	1	0	AD[22]	INTC#	INTD#	INTA#	INTB#	3	1	1	AD[23]	INTD#	INTA#	INTB#	INTC#
Emulate Slot#	Shunt S3	Shunt S2	Signal IDSEL	Signal INTA#	Signal INTB#	Signal INTC#	Signal INTD#																																		
0	0	0	AD[20]	INTA#	INTB#	INTC#	INTD#																																		
1	0	1	AD[21]	INTB#	INTC#	INTD#	INTA#																																		
2	1	0	AD[22]	INTC#	INTD#	INTA#	INTB#																																		
3	1	1	AD[23]	INTD#	INTA#	INTB#	INTC#																																		
JP4 JP5	PCI SLOT REQ & GNT SIGNAL SELECT JP4 = S0, JP5 = S1 <table border="1"> <thead> <tr> <th>Emulate Slot#</th> <th>Shunt S1</th> <th>Shunt S0</th> <th>Signal REQ#</th> <th>Signal GNT##</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> <td>REQ0#</td> <td>GNT0#</td> </tr> <tr> <td>1</td> <td>0</td> <td>1</td> <td>REQ1#</td> <td>GNT1#</td> </tr> <tr> <td>2</td> <td>1</td> <td>0</td> <td>REQ2#</td> <td>GNT2#</td> </tr> <tr> <td>3</td> <td>1</td> <td>1</td> <td>REQ3#</td> <td>GNT3#</td> </tr> </tbody> </table>	Emulate Slot#	Shunt S1	Shunt S0	Signal REQ#	Signal GNT##	0	0	0	REQ0#	GNT0#	1	0	1	REQ1#	GNT1#	2	1	0	REQ2#	GNT2#	3	1	1	REQ3#	GNT3#															
Emulate Slot#	Shunt S1	Shunt S0	Signal REQ#	Signal GNT##																																					
0	0	0	REQ0#	GNT0#																																					
1	0	1	REQ1#	GNT1#																																					
2	1	0	REQ2#	GNT2#																																					
3	1	1	REQ3#	GNT3#																																					
JP6	S3 PSON CNTL#																																								
JP7	S4 PSON CNTL#																																								
JP8	S5 PSON CNTL#																																								
JP9	P/S OFF (STBY Only)																																								
JP10	P/S ON (AT Mode)																																								
JP11	Express Card Detect Test for Card0																																								
JP12	Express Card Detect Test for Card1																																								
JP13	THRM# Test																																								
JP14	Alternate SIO Disable																																								
JP15	SIO Disable																																								
JP16	CPU Module BIOS Disable (Boot from Carrier Board BIOS)																																								
JP17	ETX COM Enable for COM3																																								
JP18	Battery Low Test																																								
JP19	+5VSBY Jumper (Remove for 12V Only operation)																																								
JP20	Compact Flash M/S																																								

➤ Connectors:

Connector	Function	Description
J1	VGA	Female DB15
J2	USB2/3	Dual USB type A
J3	Audio Connectors	3.5mm Phono Jacks
J4	Ethernet, USB0/1	RJ45, Dual USB type A
J5	Keyboard/Mouse	PS/2 Combo
J6	2x Gigabit Ethernet	Dual RJ45
J7	Alt. AC97 Audio Interface	2x 5-pin friction header
J8	CD Audio Input	4-pin friction header
J9	Alternate BIOS Socket	32-pin PLCC socket
J10	SATA data port1	7-pin Serial ATA
J11	LPC Slot	60-contact card edge slot
J12	SATA data port3	7-pin Serial ATA
J13	SATA data port0	7-pin Serial ATA
J14	SATA data port2	7-pin Serial ATA
J15	PCI slot	124-pin 5V 32bit PCI
J16	PCI-Express x4 slot4	164-contact card edge slot
J17	PCI-Express x4 slot3	164-contact card edge slot
J18	PCI-Express x4 slot2	164-contact card edge slot
J19	PCI-Express x4 slot1	164-contact card edge slot
J20	PCI-Express x4 slot0	164-contact card edge slot
J21	JTAG Header	8-pin header
J22	COM-Express Interface	COM-Express A/B/C/D
J23	USB6/7	2x 5-pin header
J24	CMOS battery backup	coin battery slot
J25	LVDS Video Interface	40-pin Hirose ribbon conn.
J26	USB4/5	2x 5-pin header
J27	Fan Header w/Tach and Speed Control	3-pin friction header
J28	Fan Header	3-pin friction header
J29	COM1	2x 5 header
J30	COM2	2x 5 header
J31	Fan Header	3-pin friction header
J32	Hard Drive Act. LED Interface	2-pin friction header
J33	Parallel Port	2x 13 header
J34	System PWR ON/OFF	2-pin friction header
J35	GPIO	2x 5-pin header
J36	System RESET header	2-pin friction header
J37	COM3	2x 5 header
J38	IDE	2x 20 header
J39	SMBus connector	3-pin friction header
J40	Compact Flash IDE	2x 25 CF Conn.
J41	ATX Power	24-pin Molex
J42	AUX Power	4-pin Molex
SW1	System RESET switch	Momentary switch
SW2	System PWR ON/OFF switch	Momentary switch
U1	POST Code 7-Seg LED (LSB)	POST Code LSB
U4	POST Code 7-Seg LED (MSB)	POST Code MSB