

Brownsville Carrier Board for ETXexpress Modules

Quick Reference

► Introduction

This Quick Reference Guide provides Jumper and Connector locations for Brownsville, an ETXexpress (ETXe) Carrier Board designed by Kontron to host ETXexpress Type 1 and Type 2 Modules. You can find Connector names on the next page.

For complete information on Carrier Board design, pin-outs, connectors, and Module Types 1-2, 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 Brownsville ETXexpress Carrier Board and ETXexpress-PM, a Type 2 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 J17 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 J1 on the Carrier Board. Insert the AUX power (+12V) cable into Connector J2 to power the ETXexpress Module.
7. Disable the Carrier Board's BIOS by removing the jumper on Connector J30.
8. Insert a keyboard (bottom) and a mouse (top) into the PS/2 connectors (J38).
9. On the Carrier Board, plug in a storage device to the appropriate Connector: Compact Flash (J3), IDE hard drive (J9), and SATA (J21 or J26).
10. Turn on power.

► Jumper Settings

Pins	Jumper J7 -- ATX PWR Disable
1-2	On: Disables PS_ON to ATX Supply
2-3	On: Enables PS_ON to ATX Supply
*	Off: Uses PS_ON from ETXe Module

Pins	Jumper J8 -- Compact Flash Master
1-2	On: Configures CF as Master
*	Off: Configures IDE HD as Master

Pins	Jumper J16 -- PWR_OK
1-2	On: PWR Good enabled to Module
*	Off: Uses Power Supply

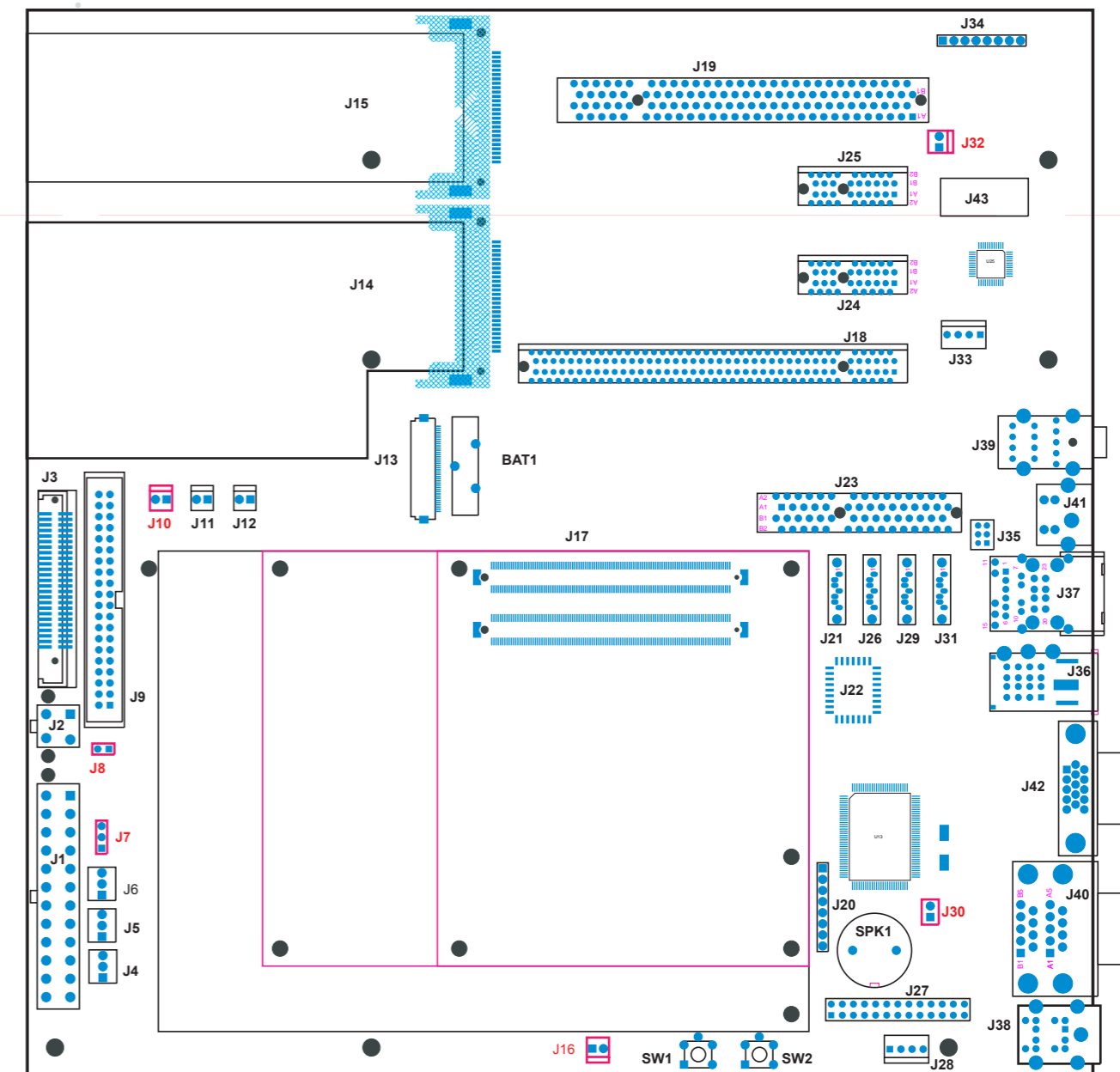
Pins	Jumper J30 -- BIOS_Disable
1-2	On: Boots from Carrier Board BIOS
*	Off: Boots from Module BIOS

Warning! Do not move jumpers if power is on. Always turn off the power. Unplug the power cord from the Carrier Board before changing jumpers.

The * signifies the default jumper configuration.

A square pin signifies the #1 pin on the connector.

► Jumper Locations



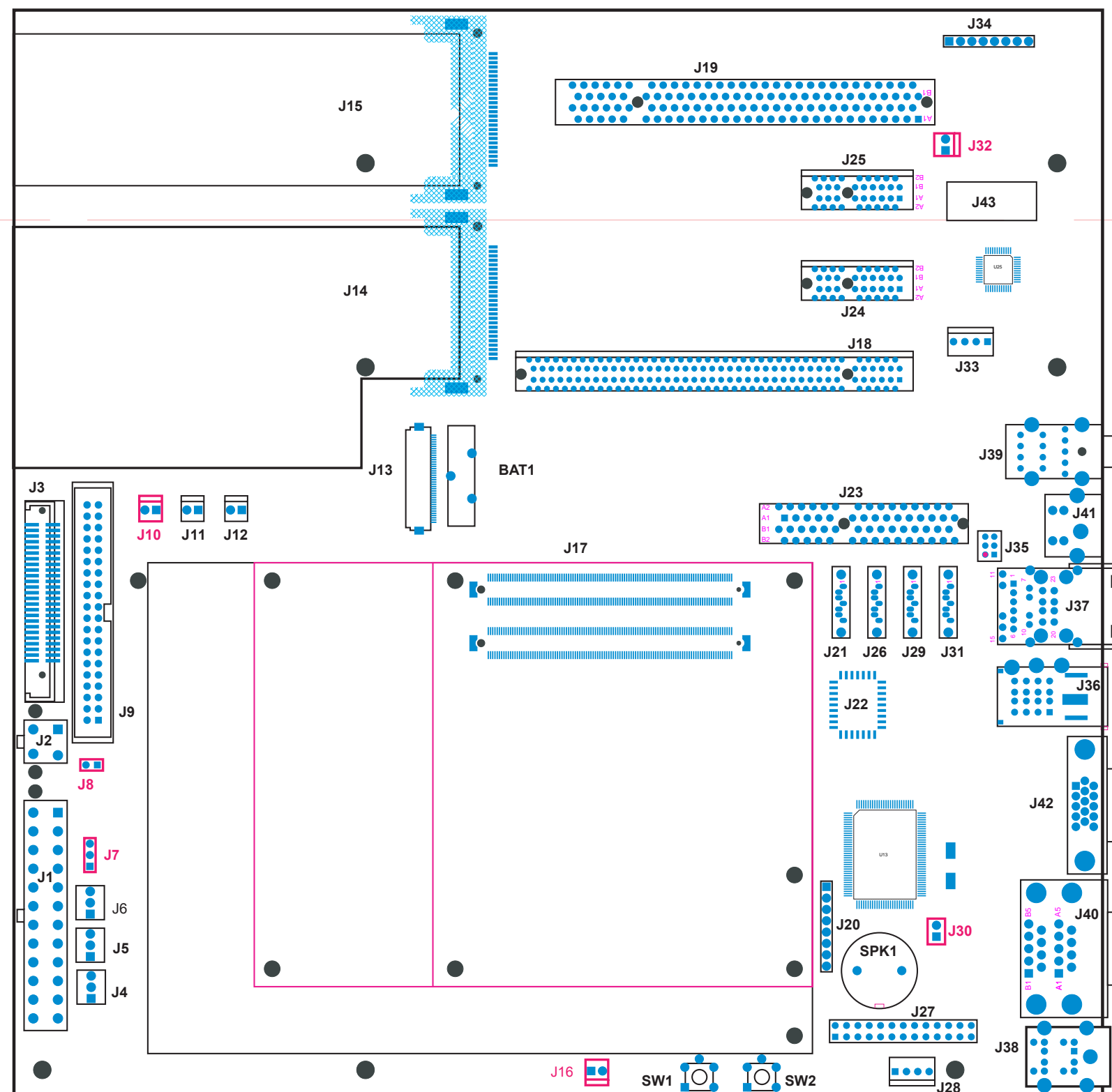
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Connector and Jumper Locations

The table below provides Reference Designators and the names of Connectors and Jumpers that are on the Brownsville Carrier Board.

J1	ATX PWR	J25	PCIe Bus
J2	AUX PWR	J26	SATA
J3	COMPACT FLASH	J27	PARALLEL PORT
J4	FAN	J28	Infrared (IR)
J5	FAN	J29	SATA (Uninstalled)
J6	FAN	J30	Carrier Board BIOS Disable JMPR
J7	PWR Disable JMPR	J31	SATA (Uninstalled)
J8	CF Master JMPR	J32	PLD DISABLE JMPR
J9	IDE HARD DRIVE	J33	CD Audio
J10	SYS Reset	J34	JTAG Header
J11	SYS PWR	J35	TV DAC
J12	CHASSIS HD ACT	J36	USB (4 ports)
J13	JILI / LVDS	J37	GBE, USB (2 ports)
J14	Express Card 0	J38	PS/2 MOUSE, KEYB
J15	Express Card 1	J39	MIC, AUDIO IN/OUT
J16	PWR OK JMPR	J40	Serial Com 1 and 2
J17	ETXe Module	J41	S-VIDEO
J18	PCIe Graphics	J42	VIDEO
J19	PCI Bus	J43	AUDIO
J20	GPIO	SW1	Carrier Board PWR
J21	SATA	SW2	Carrier Board Reset
J22	Flash Socket	BAT1	Battery Backup
J23	LPC Slot	SPK1	Buzzer
J24	PCIe Bus		



A square pin signifies the #1 pin on the Connectors and Jumpers.

Reference designators in red signal jumper locations.