

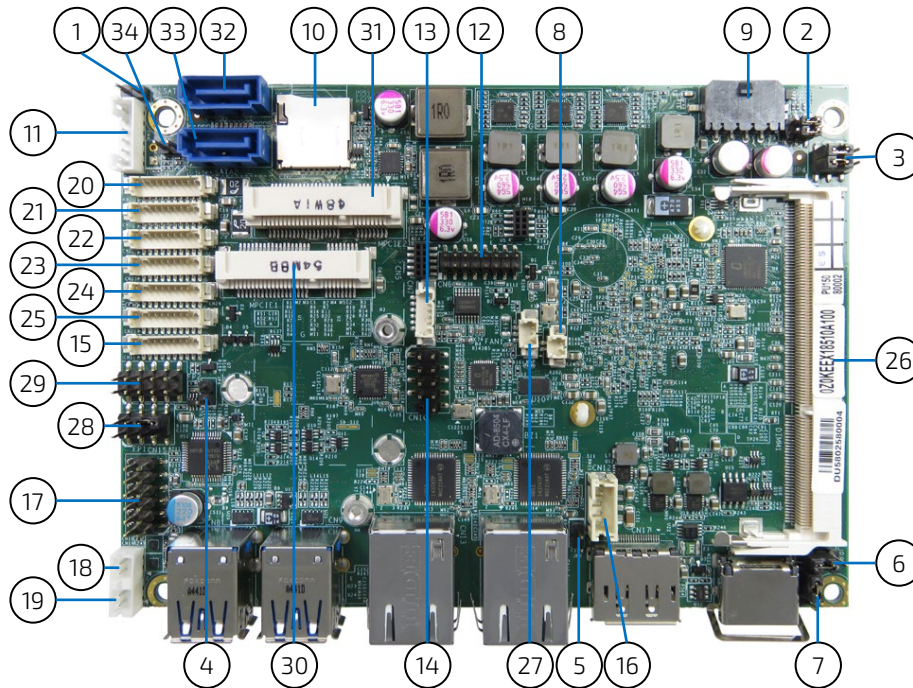
▶ ECX-BSW - QUICK INSTALLATION GUIDE

Thank you for purchasing the Kontron ECX-BSW embedded board. This document provides information to allow you to quickly install this product.

Packing Checklist

1. Take the ECX-BSW out of the packing box and check if the unit is properly secure in the plastic bag.
2. Check the contents of the carton box: (*: optional)
 - ▶ ECX-BSW main board
 - ▶ 1x DC IN Cable
 - ▶ PS/2 Cable*
 - ▶ COM Port Cable*
 - ▶ DIO Cable*
 - ▶ 2-Port USB Cable*
 - ▶ SATA Cable*
 - ▶ SATA Power Cable*
 - ▶ Audio Cable*
 - ▶ DC Jack Cable*
 - ▶ VGA Cable*
 - ▶ 3G Mini SIM Card Holder Kit*

Top Side Jumper and Internal Connector Locations



▶ Jumper List

Item	Designation	Description
1	JP1	RTC Reset Selection
2	JP2	Backlight Enable Selection
3	JP4	Panel & Backlight Power Selection
4	JP6	USB Power Selection
5	JP7	ME F/W Selection
6	JP8	Keyboard Lock Selection
7	JP9	AT / ATX Power Mode Selection

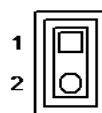
▶ Internal Connector List

Item	Designation	Description
8	BAT1	CR2032 Battery Power Input Wafer
9	CN1	DC 12V Power Input Wafer
10	CN2	Micro-SD Card Cage
11	CN4	PS/2 Keyboard / Mouse Wafer
12	CN6	VGA Header
13	CN7	SIM Interface Wafer for MPCIE1
14	CN10	USB2.0 Port DN_1, DN_2 Pin Header
15	CN11	Digital Input / Output Wafer

Item	Designation	Description
16	CN12	HDD Power Output Wafer
17	CN15	Audio Input / Output Pin Header
18	CN16	Left Channel 3W Audio AMP Output Wafer
19	CN19	Right Channel 3W Audio AMP Output Wafer
20	CN20	COM1 RS-232/422/485 Port Wafer
21	CN21	COM2 RS-232/422/485 Port Wafer
22	CN22	RS-232 Port 3 Wafer
23	CN23	RS-232 Port 4 Wafer
24	CN24	RS-232 Port 5 Wafer
25	CN25	RS-232 Port 6 Wafer
26	DIMM1	DDR3 Memory SO-DIMM Socket
27	FAN1	DC5V FAN Wafer
28	FP1	Front Panel 1 Pin Header
29	FP2	Front Panel 2 Pin Header
30	MPCIE1	Mini-PCI Express v1.2 Socket (Full Size)
31	MPCIE2	Mini-PCI Express v1.2 Socket (Half Size)
32	SATA1	Serial ATA Port 0 Connector
33	SATA2	Serial ATA Port 1 Connector
34	JP3	MPCIE Activity LED Indicator Pin Header

Jumper Settings

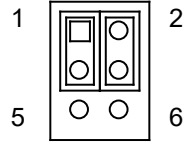
- ▶ RTC Reset Selection (JP1)



Jumper Position	Description
Pin 1-2	
X	Enable Clear CMOS RTC content (board does not boot with the jumper in this position)
-	Normal operation (default position)

"X" = Jumper set (short) and "-" = jumper not set (open)

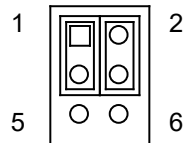
▶ Backlight Enable Selection (JP2)



Jumper 1 Position		Description
Pin 1-3	Pin 3-5	
X	-	Backlight Enable Voltage = +3.3V
-	X	Backlight Enable Voltage = +5V
Jumper 2 Position		Description
Pin 2-4	Pin 4-6	
X	-	Backlight Enable High Active
-	X	Backlight Enable Low Active

"X" = Jumper set (short) and "-" = jumper not set (open)

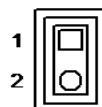
▶ Panel & Backlight Power Selection (JP4)



Jumper 1 Position		Description
Pin 1-3	Pin 3-5	
X	-	Backlight Power = +12V
-	X	Backlight Power = +5V
Jumper 2 Position		Description
Pin 2-4	Pin 4-6	
X	-	Panel Power = +3,3V
-	X	Panel Power = +5V

"X" = Jumper set (short) and "-" = jumper not set (open)

▶ USB Power Selection (JP6)

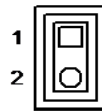


Jumper Position	Description
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Pin 1-2	
X	USB power is always supply.
-	USB power will be cut off in S4 & S5 state.

"X" = Jumper set (short) and "-" = jumper not set (open)

► ME F/W Selection (JP7)



Jumper Position	Description
Pin 1-2	
X	ME F/W Disabled
-	Normal Operation

"X" = Jumper set (short) and "-" = jumper not set (open)

► Keyboard Lock Selection (JP8)



Jumper 1 Position		Description
Pin 1-2	Pin 2-3	
X	-	Normal Operation
-	X	Keyboard Locked

"X" = Jumper set (short) and "-" = jumper not set (open)

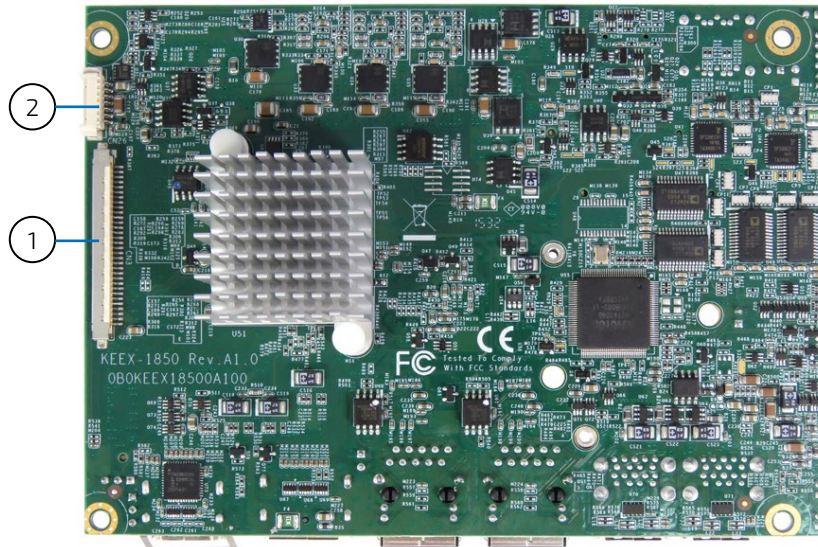
► AT / ATX Power Mode Selection (JP9)



Jumper 1 Position		Description
Pin 1-2	Pin 2-3	
X	-	ATX Mode
-	X	AT Mode

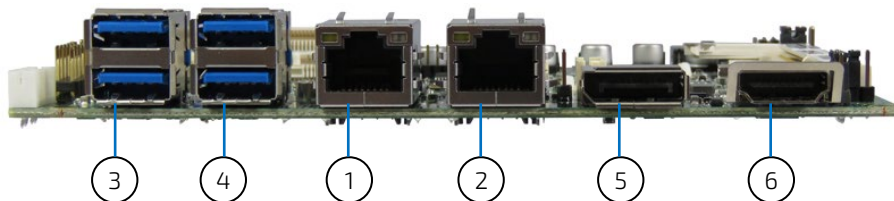
"X" = Jumper set (short) and "-" = jumper not set (open)

Bottom Side Internal Connector Locations



Item	Designation	Description
1	CN3	18/24-bit, Single Channel LVDS Panel Connector
2	CN26	Backlight Power Output Wafer

Real I/O Panel Connector Locations



Item	Designation	Description
1	CN13	GbE LAN1 RJ-45 Connector
2	CN14	GbE LAN2 RJ-45 Connector
3	CN8	USB3.0 Port 1,2 Type-A Connector
4	CN9	USB3.0 Port 3,4 Type-A Connector
5	CN17	DP Connector
6	CN18	HDMI Connector