

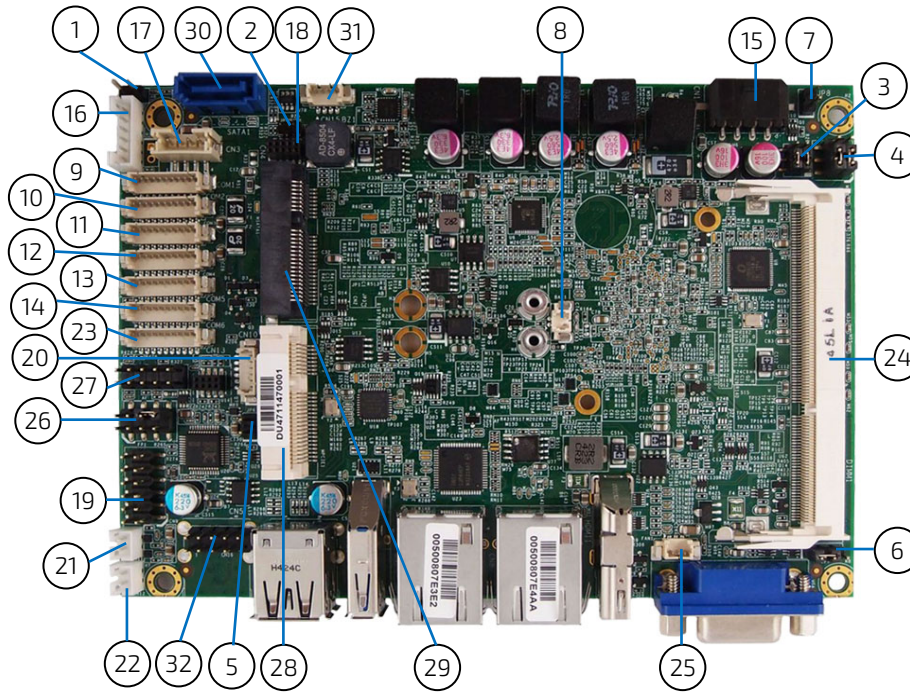
## ▶ ECX-BYT - QUICK INSTALLATION GUIDE

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

### Packing Checklist

1. Take the ECX-BYT 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-BYT main board
  - ▶ 1x DC IN Cable
  - ▶ PS/2 Cable\*
  - ▶ COM Port Cable\*
  - ▶ DIO Cable\*
  - ▶ 2-Port USB Cable\*
  - ▶ 1-Port USB Cable\*
  - ▶ SATA Cable\*
  - ▶ SATA Power Cable\*
  - ▶ Audio 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	MPCIE Activity LED Indication
3	JP4	Backlight Enable Selection
4	JP5	Panel & Backlight Power Selection
5	JP6	USB Power Selection
6	JP7	AT / ATX Power Mode Selection
7	JP8	ME F/W Selection

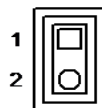
### ▶ Internal Connector List

Item	Designation	Description
8	BAT1	CR2032 Battery Power Input Wafer
9	COM1	RS-232/422/485 Port Wafer
10	COM2	RS-232/422/485 Port Wafer
11	COM3	RS-232 Port 3 Wafer
12	COM4	RS-232 Port 4 Wafer
13	COM5	RS-232 Port 5 Wafer
14	COM6	RS-232 Port 6 Wafer
15	CN1	DC12V Power Input Wafer

Item	Designation	Description
16	CN2	PS/2 Keyboard / Mouse Wafer
17	CN3	HDD Power Output Wafer
18	CN4	P80 Header
19	CN9	Audio Input / Output Pin Header
20	CN10	SIM Interface Wafer for MPCIE2
21	CN11	Right Channel 3W Audio AMP Output Wafer
22	CN12	Left Channel 3W Audio AMP Output Wafer
23	CN13	Digital Input / Output Wafer
24	DIMM1	DDR3 Memory SO-DIMM Socket
25	FAN1	DC5V FAN Wafer
26	FP1	Front Panel 1 Pin Header
27	FP2	Front Panel 2 Pin Header
28	MPCIE1	Mini-PCI Express v1.2 Socket (Full Size)
29	MSATA1	Serial ATA Port-1 mSATA Socket (Full Size)
30	SATA1	Serial ATA Port 0 Connector
31	CN15	USB2.0 Port 2 Pin Header
32	CN16	USB2.0 Port USBDN_1,2 Pin Header

## Jumper Settings

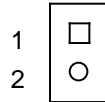
- ▶ RTC Reset Selection (JP1)



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)

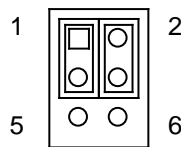
"X" = Jumper set (short) and "-" = jumper not set (open)

▶ MPCIE1 Activity LED Indication (JP2)



Pin	Signal	Note
1	LED+	
2	LED-	

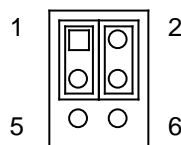
▶ Backlight Enable Selection (JP4)



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	-	Active High
-	X	Active Low

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

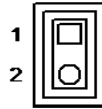
▶ Panel & Backlight Power Selection (JP5)



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
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)

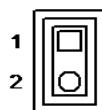
▶ AT / ATX Power Mode Selection (JP7)



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)

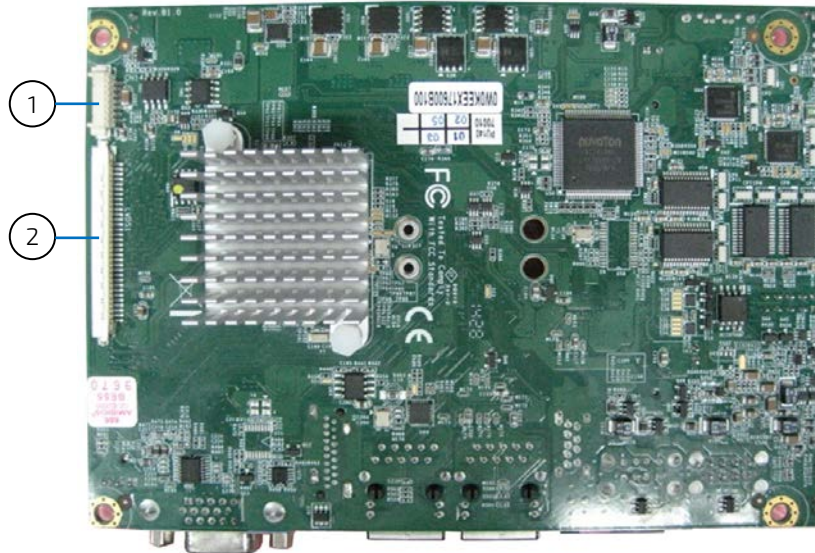
▶ ME F/W Selection (JP8)



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

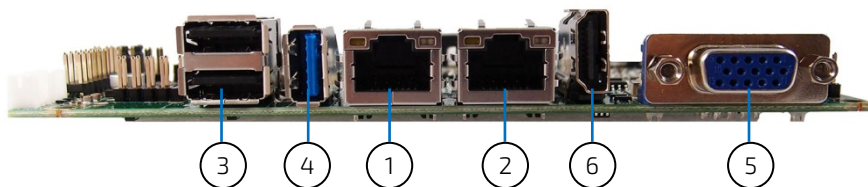
"X" = Jumper set (short) and "-" = jumper not set (open)

## Bottom Side Internal Connector Locations



Item	Designation	Description
1	CN14	Backlight Power Output Wafer
2	LVDS1	18/24-bit, Single Channel LVDS Panel Connector

## Real I/O Panel Connector Locations



Item	Designation	Description
1	CN7	GbE LAN1 RJ-45 Connector
2	CN8	GbE LAN2 RJ-45 Connector
3	CN6	USB2.0 Port 2,3 Type-A Connector
4	USB1	USB3.0 Port 0 Connector
5	VGA1	VGA Connector
6	HDMI1	HDMI Connector