

▶ 3.5"-SBC-WLU - QUICK INSTALLATION GUIDE

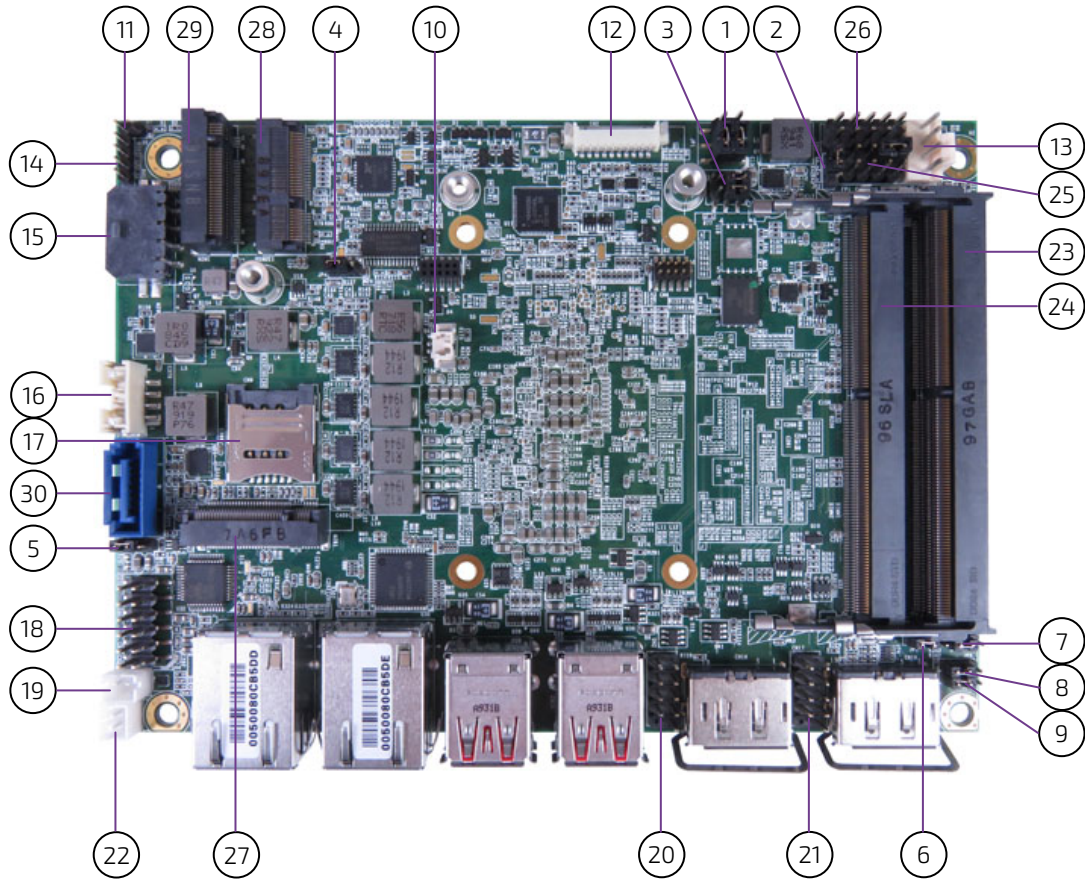
Thank you for purchasing the Kontron 3.5"-SBC-WLU embedded board. This document provides information to allow you to quickly install this product.

Packing Checklist

1. Take the 3.5"-SBC-WLU 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)

- ▶ 3.5"-SBC-WLU main board
- ▶ Quick Installation Guide
- ▶ DC IN Cable
- ▶ COM Port Cable *
- ▶ DIO Cable *
- ▶ USB Cable (2 Port) *
- ▶ SATA Cable *
- ▶ SATA Power Cable *
- ▶ Audio Cable *
- ▶ Cooler *

Top Side Jumper and Internal Connector Locations



► Jumper List

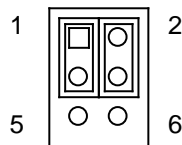
Item	Designation	Description
1	JP1	LVDS Panel Power Selection
2	JP2	LVDS Backlight Control Selection
3	JP3	LVDS Backlight Enable Selection
4	JP4	Integrated CNVi Selection for M2E1
5	JP5	Flash Descriptor Security Override Selection
6	JP6	AT / ATX Power Mode Selection
7	JP7	Clear CMOS Selection
8	JP9	USB Power Selection
9	JP10	MFG Mode Selection

► Internal Connector List

Item	Designation	Description
10	BAT1	RTC Power Input Wafer
11	CN1	Activity Indicator Header for M2B1
12	CN2	SDXC / DIO Header
13	CN3	FAN Wafer
14	CN4	Activity Indicator Header for M2E1
15	CN5	+12 V DC Power Input Wafer
16	CN8	+5 V DC HDD / SSD Power Output Wafer
17	CN9	Micro SIM Card Holder for M2B1
18	CN10	Audio Input / Output Header
19	CN11	Right Channel Audio AMP Output Wafer
20	CN16	USB 2.0 Port 6, 7 Header
21	CN17	USB 2.0 Port 8, 9 Header
22	CN20	Left Channel Audio AMP Output Wafer
23	DIMM1	DDR4 Channel 0 SO-DIMM Slot
24	DIMM2	DDR4 Channel 1 SO-DIMM Slot
25	FP1	Front Panel Header 1
26	FP2	Front Panel Header 2
27	M2B1	M.2 Key B 3042 Slot
28	M2E1	M.2 Key E 2230 Slot
29	M2M1	M.2 Key M 2242 / 2280 Slot
30	SATA1	SATA Port 0 Connector

Jumper Setting

► LVDS Panel Power Selection (JP1)



Jumper 1 Position		Description
Pin 1-3	Pin 3-5	
X	-	Backlight Power = +12 V
-	X	Backlight Power = +5 V
Jumper 2 Position		Description
Pin 2-4	Pin 4-6	
X	-	Panel Power = +3.3 V
-	X	Panel Power = +5 V

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

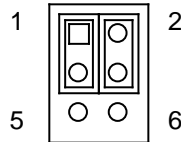
▶ LVDS Backlight Control Selection (JP2)



Jumper 1 Position		Description
Pin 1-2	Pin 2-3	
X	-	PWM Control Mode
-	X	Voltage Control Mode

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

▶ LVDS Backlight Enable Selection (JP3)



Jumper 1 Position		Description
Pin 1-3	Pin 3-5	
X	-	Backlight Enable Level = +3.3 V
-	X	Backlight Enable Level = +5 V
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)

▶ Integrated CNVi Selection for M2E1 (JP4)



Jumper 1 Position		Description
Pin 1-2	Pin 2-3	
X	-	Integrated CNVi Disabled
-	X	Integrated CNVi Enabled

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

▶ Flash Descriptor Security Override Selection (JP5)



Jumper 1 Position		Description
Pin 1-2	Pin 2-3	
X	-	Normal Operation
-	X	Flash Security Override

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

▶ AT / ATX Power Mode Selection (JP6)



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)

▶ Clear CMOS Selection (JP7)



Jumper 1 Position		Description
Pin 1-2	Pin 2-3	
X	-	Normal Operation (default position)
-	X	Clear CMOS (board does not boot with the jumper in this position)

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

► USB Power Selection (JP9)



Jumper 1 Position		Description
Pin 1-2	Pin 2-3	
X	-	+5 V
-	X	+5 VSB

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

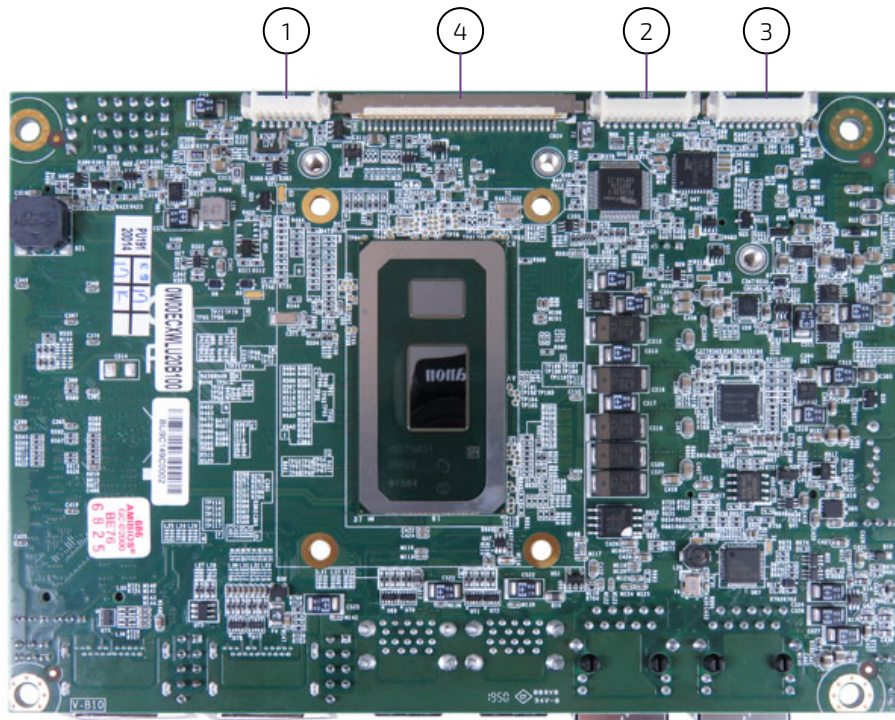
► MFG Mode Selection (JP10)



Jumper 1 Position		Description
Pin 1-2	Pin 2-3	
X	-	Normal Operation
-	X	Enable MFG Mode

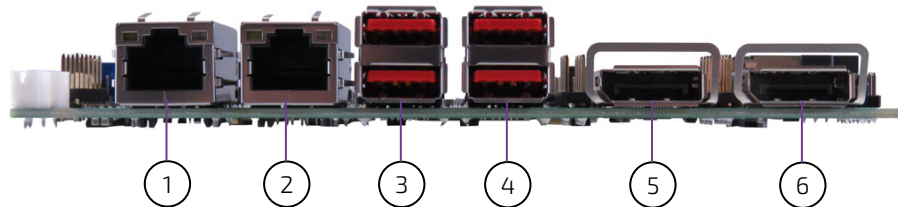
"X" = Jumper set (short) and "-" = jumper not set (open)

Bottom Side Internal Connector Locations



Item	Designation	Description
1	CN21	LVDS Backlight Power Wafer
2	CN22	RS232/422/485 COM2 Wafer
3	CN23	RS232/422/485 COM1 Wafer
4	CN24	24-bit / 2-ch LVDS Connector

Rear I/O Panel Connector Locations



Item	Designation	Description
1	CN12	GbE LAN1 RJ45 Connector
2	CN13	GbE LAN2 RJ45 Connector
3	CN14	USB 3.1 Port 1, 2 Type A Connector
4	CN15	USB 3.1 Port 3, 4 Type A Connector
5	CN18	DP++ Port 2 Connector
6	CN19	DP++ Port 1 Connector