

## ▶ 3.5"-SBC-TGL - QUICK INSTALLATION GUIDE

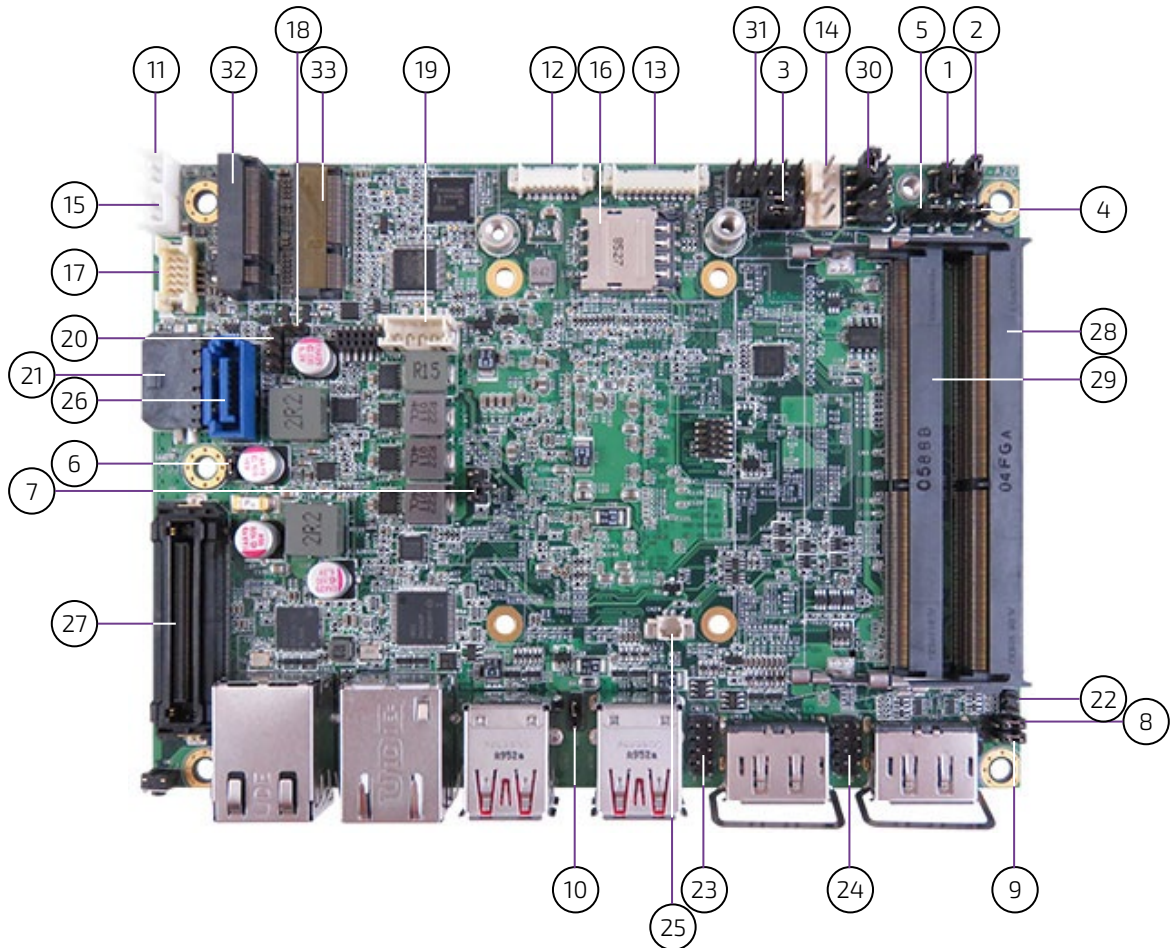
Thank you for purchasing the Kontron 3.5"-SBC-TGL embedded board. This document provides information to allow you to quickly install this product.

### Packing Checklist

1. Take the 3.5"-SBC-TGL 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-TGL main board
- ▶ Quick Installation Guide
- ▶ DC IN Cable
- ▶ SATA Cable
- ▶ SATA Power Cable \*
- ▶ COM Port Cable \*
- ▶ DIO Cable \*
- ▶ USB Cable (2 Port) \*
- ▶ Audio Cable \*
- ▶ Speaker with Cable \*
- ▶ Cooler \*
- ▶ Extended I/O Board \*

## Top Side Jumper and Internal Connector Locations



### ► Jumper List

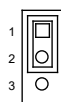
Item	Designation	Description
1	JP1	LVDS Backlight Control Selection
2	JP2	M.2 Key B Selection
3	JP3	LVDS Panel Power Selection
4	JP4	LVDS Backlight Enable Selection
5	JP5	LVDS Backlight Enable Voltage Selection
6	JP6	Flash Descriptor Security Override Selection
7	JP7	AT / ATX Power Mode Selection
8	JP8	Clear CMOS Selection
9	JP9	MFG Mode Selection
10	JP10	USB Power Selection

► Internal Connector List

Item	Designation	Description
11	CN1	Left Channel Audio AMP Output Wafer
12	CN2	LVDS Backlight Power Wafer
13	CN3	DIO Header
14	CN4	Fan Wafer
15	CN5	Right Channel Audio AMP Output Wafer
16	CN6	Micro SIM Card Holder for M2B1
17	CN7	Audio Input / Output Header
18	CN8	Activity Indicator Header for M2B1
19	CN9	SATA Power Output Wafer
20	CN11	Activity Indicator Header for M2E1
21	CN12	+12 V DC Power Input Wafer
22	CN14	Activity Indicator Header for M2M1
23	CN19	USB 2.0 Port 5, 6 Header
24	CN20	USB 2.0 Port 7, 8 Header
25	CN26	RTC Power Input Wafer
26	CN27	SATA Port 0 Connector
27	CN28	Extended B2B Connector
28	DIMM1	DDR4 Channel 0 SO-DIMM Slot
29	DIMM2	DDR4 Channel 1 SO-DIMM Slot
30	FP1	Front Panel Header 1
31	FP2	Front Panel Header 2
32	M2B1	M.2 Key B 2242 / 3042 / 2280 Slot
33	M2E1	M.2 Key E 2230 Slot

## Jumper Setting

► LVDS Backlight Control Selection (JP1)



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)

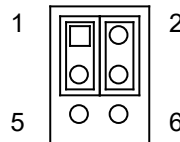
▶ LVDS Backlight Control Selection (JP2)



Jumper 1 Position		Description
Pin 1-2	Pin 2-3	
X	-	PCIe x1
-	X	SATA (Default)

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

▶ LVDS Panel Power Selection (JP3)



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 Enable Selection (JP4)



Jumper 1 Position		Description
Pin 1-2	Pin 2-3	
X	-	High Active
-	X	Low Active

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

▶ LVDS Backlight Enable Voltage Selection (JP5)



Jumper 1 Position		Description
Pin 1-2	Pin 2-3	
X	-	+3.3 V
-	X	+5 V

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

▶ Flash Descriptor Security Override Selection (JP6)



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 (JP7)



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

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

► Clear CMOS Selection (JP8)



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)

► MFG Mode Selection (JP9)



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)

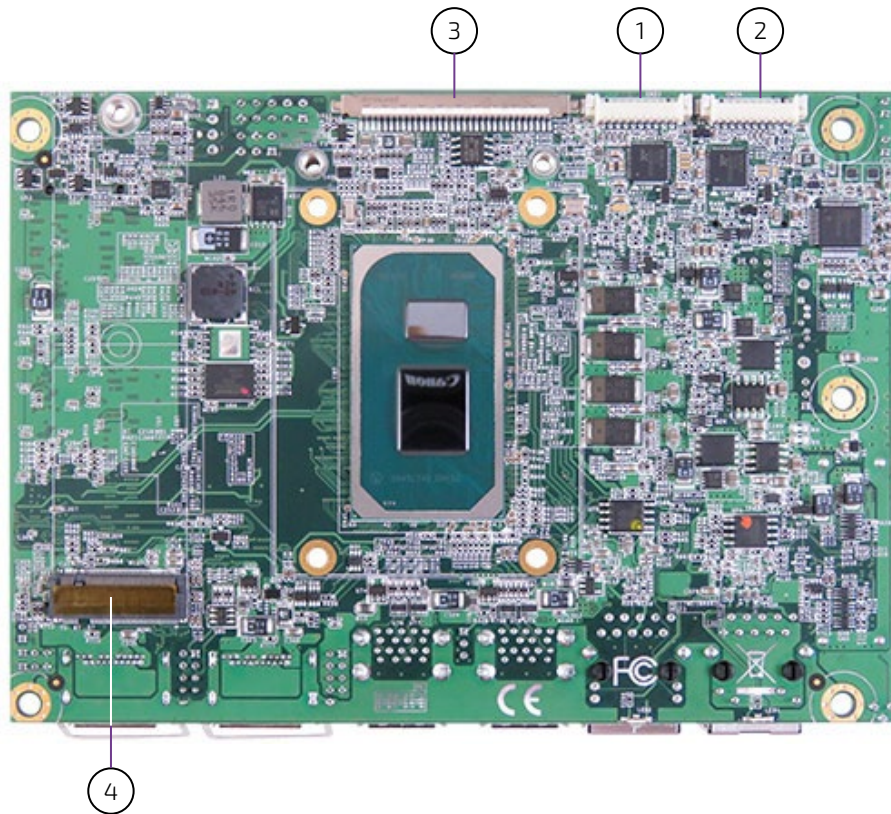
► USB Power Selection (JP10)



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

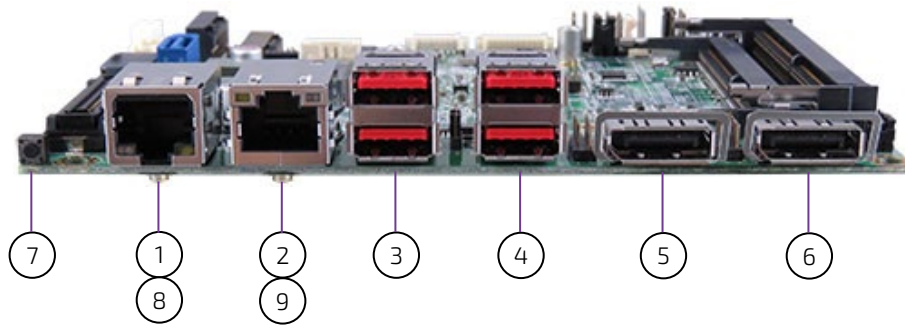
"X" = Jumper set (short) and "-" = jumper not set (open)

## Bottom Side Internal Connector Locations



Item	Designation	Description
1	CN23	RS232/422/485 COM2 Wafer
2	CN24	RS232/422/485 COM1 Wafer
3	CN25	24-bit / 2-ch LVDS Connector
4	M2M1	M.2 Key M 2280 Slot

## Rear I/O Panel Connector Locations



Item	Designation	Description
1	CN15	2.5GbE LAN1 RJ45 Connector
2	CN16	GbE LAN2 RJ45 Connector
3	CN17	USB 3.2 Gen 2 Port 3, 4 Type A Connector
4	CN18	USB 3.2 Gen 2 Port 1, 2 Type A Connector
5	CN21	DP Port 1 Connector
6	CN22	DP Port 2 Connector
7	SW1	Power Button
8	LED1	Power LED
9	LED2	Standby LED