

▶ 3.5"-SBC-VR1000 - QUICK INSTALLATION GUIDE

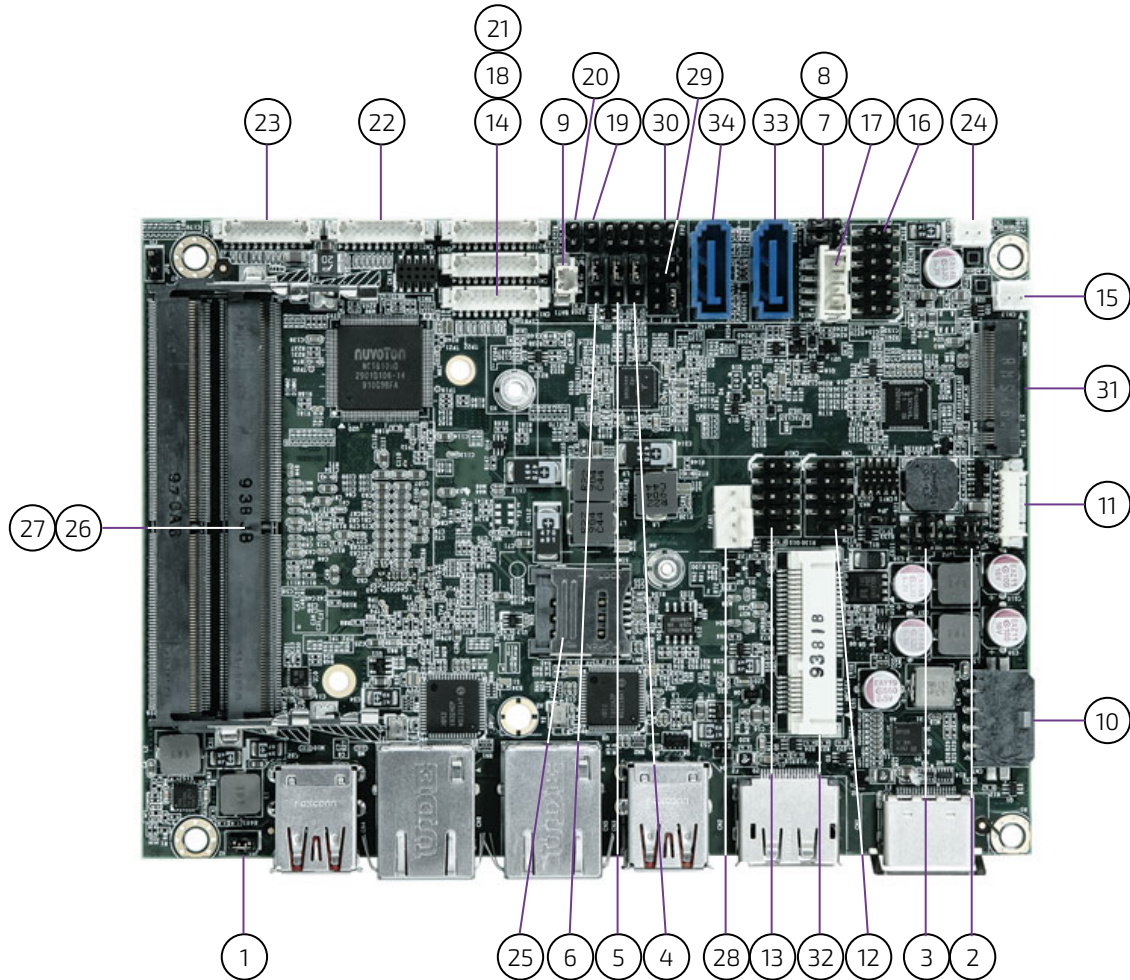
Thank you for purchasing the Kontron 3.5"-SBC-VR1000 embedded board. This document provides information to allow you to quickly install this product.

Packing Checklist

1. Take the 3.5"-SBC-VR1000 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-VR1000 main board
- ▶ Quick Installation Guide
- ▶ Driver CD
- ▶ DC IN Cable
- ▶ SATA Cable
- ▶ COM Port Cable *
- ▶ DIO Cable *
- ▶ USB Cable (2 Port) *
- ▶ SATA Power Cable *
- ▶ Audio Cable *
- ▶ Cooler *

Top Side Jumper and Internal Connector Locations



▶ Jumper List

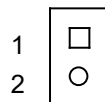
Item	Designation	Description
1	JP1	EEPROM WP Selection
2	JP2	Backlight Enable Selection
3	JP3	Panel & Backlight Power Selection
4	JP5	AT / ATX Power Mode Selection
5	JP6	USB Power Selection
6	JP7	Clear CMOS Selection
7	JP9	Backlight Adjustment Selection
8	JP10	LVDS EDID Selection

► Internal Connector List

Item	Designation	Description
9	BAT1	CR2032 Battery Power Input Wafer
10	CN7	DC 12 V Power Input Wafer
11	CN8	Backlight Power Output Wafer
12	CN9	USB 2.0 Port DN 3, 4 Pin Header
13	CN10	USB 2.0 Port DN 1, 2 Pin Header
14	CN12	COM1 RS232/422/485 Port Wafer
15	CN13	Right Channel 3 W Audio AMP Output Wafer
16	CN14	Audio Input / Output Pin Header
17	CN15	HDD / SSD Power Output Wafer
18	CN17	COM2 RS232/422/485 Port Wafer
19	CN18	M.2 Key M Activity LED Pin Header
20	CN19	mPCIe Activity LED Pin Header
21	CN20	Digital Input / Output Wafer
22	CN21	RS232 Port 3 Wafer
23	CN22	RS232 Port 4 Wafer
24	CN23	Left Channel 3 W Audio AMP Output Wafer
25	SIM1	Micro SIM Card Cage
26	DIMM1	DDR4 Memory SO-DIMM Socket
27	DIMM2	DDR4 Memory SO-DIMM Socket
28	FAN1	DC 12 V Fan Wafer
29	FP1	Front Panel 1 Pin Header
30	FP2	Front Panel 2 Pin Header
31	M2M2	NGFF M.2 Key M Socket
32	MPCIE1	Mini-PCI Express V1.2 Socket
33	SATA1	Serial ATA Port 0 Connector
34	SATA2	Serial ATA Port 1 Connector

Jumper Setting

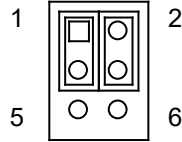
► EEPROM WP Selection (JP1)



Jumper 1 Position	Description
Pin 1-2	
-	Memory is inhibited
X	Allows normal write

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

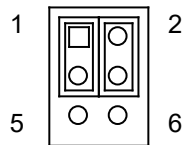
► Backlight Enable Selection (JP2)



Jumper 1 Position		Description
Pin 1-3	Pin 3-5	
X	-	Backlight Enable 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)

► Panel & Backlight 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)

▶ AT / ATX Power Mode Selection (JP5)



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)

▶ USB Power Selection (JP6)



Jumper 1 Position		Description
Pin 1-2	Pin 2-3	
X	-	USB power will be cut off in S4 & S5 state.
-	X	USB power is always supplied.

"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)

► Backlight Adjustment Selection (JP9)



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

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

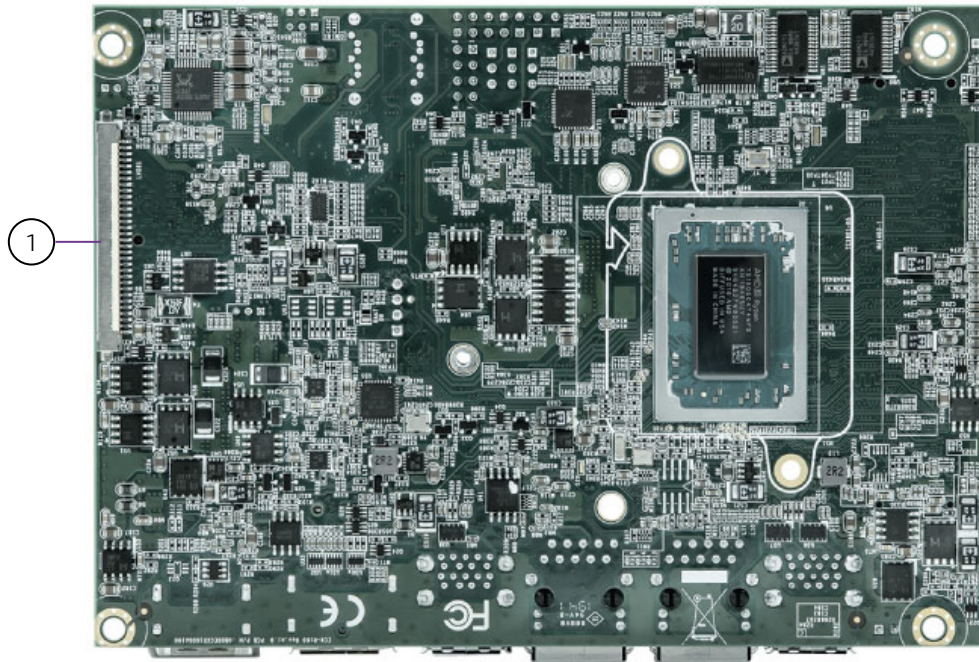
► LVDS EDID Selection (JP10)



Jumper 1 Position		Description
Pin 1-2	Pin 2-3	
X	-	Normal
-	X	LVDS EDID Write

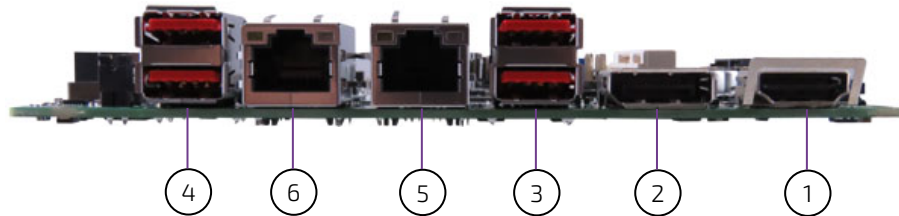
"X" = Jumper set (short) and "-" = jumper not set (open)

Bottom Side Internal Connector Locations



Item	Designation	Description
1	LVDS1	18/24-bit, 2-channel LVDS Panel Connector

Rear I/O Panel Connector Locations



Item	Designation	Description
1	CN1	HDMI 2.0 Connector
2	CN2	DP Connector
3	CN3	USB 3.1 Port 1, 2 Type A Connector (V1000 Model) USB 2.0 Port 1, 2 Type A Connector (R1000 Model)
4	CN4	USB 3.1 Port 3, 4 Type A Connector
5	CN5	GbE LAN1 RJ45 Connector
6	CN6	GbE LAN2 RJ45 Connector