

▶ mITX-DNV - QUICK INSTALLATION GUIDE

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

Packing Checklist

1. Take the mITX-DNV 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)
 - ▶ mITX-DNV main board
 - ▶ Rear I/O Shield
 - ▶ SATA Cable*
 - ▶ COM Port Cable*
 - ▶ DIO Cable*
 - ▶ 2-Ports USB 2.0 Cable*
 - ▶ PS/2 Cable*
 - ▶ 3G / 4G Micro SIM Card Holder Kit*

Top Side Jumper and Internal Connector Locations



► Jumper List

Item	Designation	Description
1	JP1	mPCIE / mSATA Selection for MPCIE1
2	JP2	USB Power Selection
3	JP3	AT / ATX Power Mode Selection
4	JP5	MFG Mode Selection
5	JP10	Clear CMOS Selection
6	JP11	Flash Security Override Selection
7	JP15	Power Output Selection for COM1 Pin-9

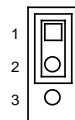
► Internal Connector List

Item	Designation	Description
8	ATX1	2x12-Pin ATX Power Input Wafer
9	FAN1	CPU FAN Wafer
10	FAN2	System FAN Wafer

Item	Designation	Description
11	SATA1	SATA Port-1 Connector
12	SATA2	SATA Port-2 Connector
13	SATA3	SATA Port-3 Connector
14	SATA4	SATA Port-4 Connector
15	SATA5	SATA Port-5 Connector
16	SATA6	SATA Port-6 Connector
17	CN17	USB2.0 Port-1, 2 Header
18	FP1	Front Panel Header 1
19	FP2	Front Panel Header 2
20	CN16	RS-232/422/485 COM2 Wafer
21	CN15	8-bit Digital Input / Output Wafer
22	CN21	PS/2 KB/MS Wafer
23	M2B1	M.2 Key-B SSD Slot
24	MPCIE1	mPCIe / mSATA Port-1 Slot
25	CN4	SIM Interface Wafer for MPCIE1
26	PCIE1	PCIe x8 Slot
27	CN2	GbE LAN LED Header
28	CN5	Wireless Activity LED Header for MPCIE1
29	CN25	General Purpose LED Wafer
30	DIMM1	Channel-0 DDR4 DIMM Slot
31	DIMM2	Channel-1 DDR4 DIMM Slot
32	CN1	CR2032 Battery Holder
33	BZ1	Onboard Buzzer

Jumper Settings

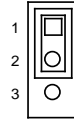
- ▶ mPCIe / mSATA Selection for MPCIE1 (JP1)



Jumper Position		Description
Pin 1-2	Pin 2-3	
X	-	mPCIe
-	X	mSATA

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

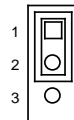
▶ USB Power Selection (JP2)



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

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

▶ AT / ATX Power Mode Selection (JP3)



Jumper 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)

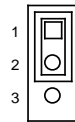
► MFG Mode Selection (JP5)



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

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

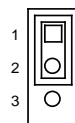
► Clear CMOS Selection (JP10)



Jumper Position		Description
Pin 1-2	Pin 2-3	
X	-	Normal
-	X	Clear CMOS

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

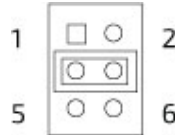
► Flash Security Override Selection (JP11)



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

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

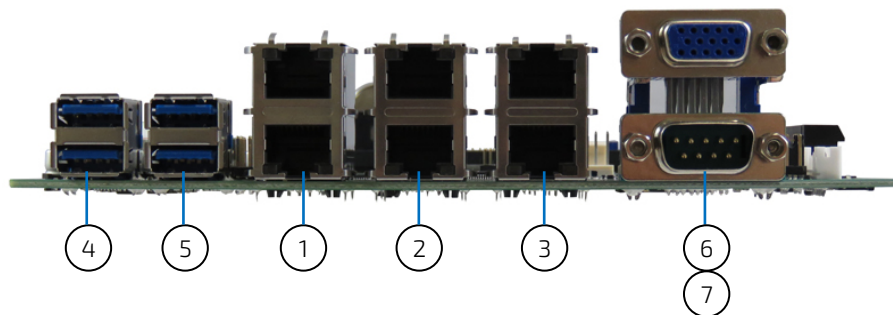
► Power Output Selection for COM1 Pin-9 (JP15)



Jumper Position			Description
Pin 1-2	Pin 3-4	Pin 5-6	
X	-	-	+5V
-	X	-	RI#
-	-	X	+12V

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

Real I/O Panel Connector Locations



Item	Designation	Description
1	CN18	GbE LAN1, 2 RJ45 Connector
2	CN19	GbE LAN3, 4 RJ45 Connector
3	CN20	GbE LAN5, 6 RJ45 Connector
4	CN22	USB 3.0 Port 3, 4 Connector
5	CN23	USB 3.0 Port 1, 2 Connector
6	CN24	VGA Connector
7	CN26	RS232/422/485 COM1 Connector