

HAWK ORIN-TW

Fanless Embedded Computer with
NVIDIA® Jetson Orin™ Nano (Super) / NX SoM

CPU Board:

- NVIDIA Jetson Orin™ Nano (Super):
  4 / 8GB LPDDR5, 20 / 40 TOPs
- NVIDIA Jetson Orin™ NX: 8 / 16GB LPDDR5, 70 / 100 TOPs
- AI Accelerator: NVIDIA® Jetson Orin™ Nano (Super) / Orin™ NX

- 1 x DP, 5 x GbE (1 + 4 x PoE)
- 1 x USB 3.1 Type C ; 2 x USB 3.1 Type A ; 1 x USB 2.0
- 2 x Isolated RS232 / RS422 / RS485, 1 x Isolated CANBus
- 1 x M.2 M key, 4 x M.2 B key, 1 x M.2 E Key
- Mic-in / Line-out ; 1 x Nano SIM
- Isolated Wide Range DC-IN, CPC-Ignition on/off delay control

Specifications :

Motherboard	NVIDIA Jetson Orin SOM + ORIN-TW	
Storage	Mobile Rack (OEM option), M.2-SSD	
M.2	1 x M.2 M key Type 3042 / 3080 (PCIe x 4)	
	1 x M.2 B key Type 3042 / 3052	
	(PCIe x 1 / USB 2.0 (OEM to USB 3.1)	
	1 x M.2 B key Type 3042 / 3052 (USB 3.1 / 2.0)	
	1 x M.2 E key Type 2230 (PCIe x 1 / USB 2.0 / UART / I2S)	
	2 x M.2 B key Type 2242 / 2280 (SATA-SSD)	
I /O ports	Network	5 x GbE (1 + 4 x PoE)
	USB	1 x USB 3.1 Type C ; 2 x USB 3.1 Type A ; 1 x USB 2.0
	Serial ports	2 x Isolated RS232 / 422 / 485 ; 1 x Isolated CANBus
	Display	1 x DP
	SIM Card	1 x Nano SIM
	DIO	8DI / 8DO (option)
	Audio	Mic-in / Line-out
Optional Modules & Accessory	M.2 Module: 4G, 5G, PCIe VESA / Wall Mouniting Kit / Anti-Vibration Kit	

Mechanical

Dimensions	220W x 172.6D x 80H mm
Weight	3.2 kg
Mounting	VESA Mount* Wall Mount* Anti-Vibration*

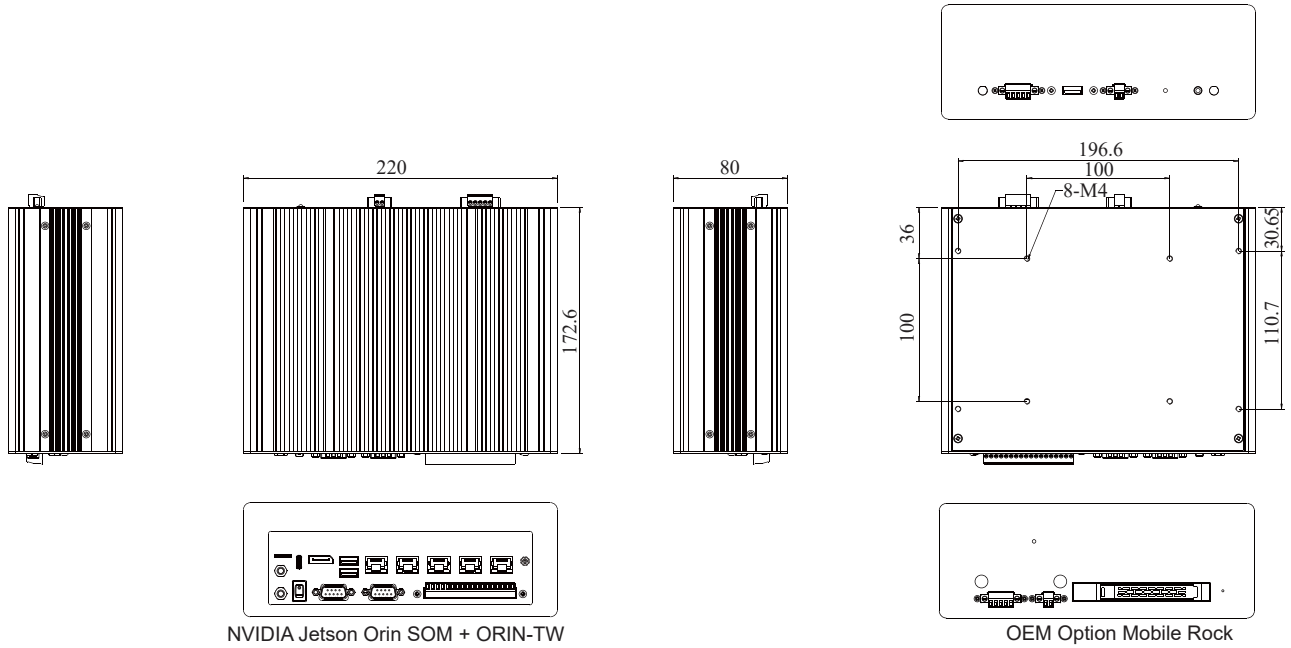
Power

DC input
- Isolated Wide Range +9~36V
- CPC-Ignition on/off delay control
- power brick 1/4 CQB100W-24S12 9~36V IN / 12V Out 100W (SYS) (Standard SPEC)
- power brick 1/4 CQB100W-48S12 18~75V IN / 12V Out 100W (SYS) (OEM SPEC Non PSE)
- power brick 1/4 CQB150W-24S48 9~36V IN / 48V Out 150W (SYS+PSE) (OEM SPEC)

Environment

Operating Temp. (100 % CPU usage)	-40°C to +60°C
Storage Temp.	-20°C to +70°C
Relative Humidity	95% @ 40°C, non-condensing
OS Support	JetPack 6.2 Ubuntu 22.04.05

Dimension



NVIDIA Jetson Orin SOM + ORIN-TW

OEM Option Mobile Rack