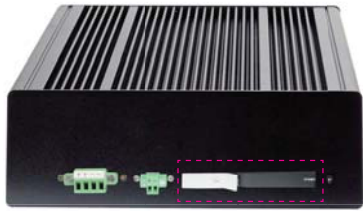


# HAWK ORIN-TW (M12)

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



Mobile Rack (Option)



## 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
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- 1 x DP, 5 x GbE (1 + 4 x Poe) (M12)
  - 1 x USB 3.1 Type C ; 2 x USB 3.1 Type A ; 1x 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
  - ISO Wide Range DC-IN, CPC-Ignition on/off delay control

## Specifications :

Motherboard	NVIDIA Jetson Orin SOM + ORIN-TW	
Storage	Mobile Rack x 1 (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) (M12)
	USB	1 x USB 3.1 Type C ; 2 x USB 3.1 Type A ; 1 x USB 2.0
	Serial ports	2 x ISO RS232 / 422 / 485 ; 1 x ISO 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 Mounting Kit / Anti-Vibration Kit	

## Mechanical

Dimensions	220W x 176.6D x 80H mm
Weight	3.6 kg
Mounting	VESA Mount* Wall Mount* Anti-Vibration*

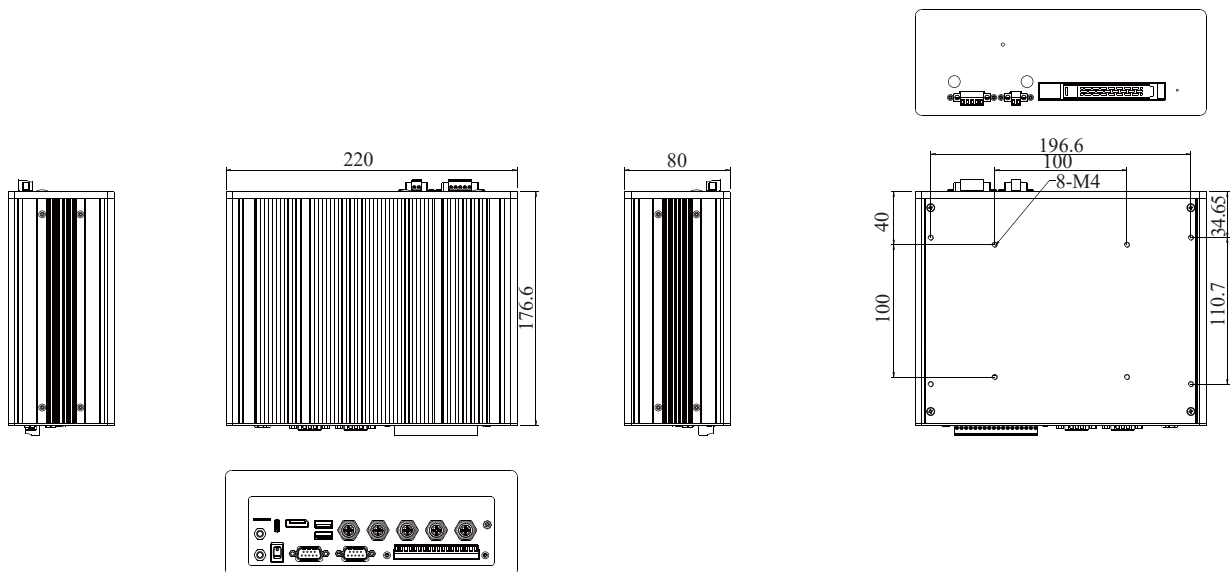
## Power

DC input	<ul style="list-style-type: none"> <li>• ISO Wide Range +9~36V</li> <li>• CPC-Ignition on/off delay control</li> <li>• power brick 1/4 CQB100W-24S12 9~36V IN / 12V Out 100W (SYS) (Standard SPEC)</li> <li>• power brick 1/4 CQB100W-48S12 18~75V IN / 12V Out 100W (SYS) (OEM SPEC Non PSE)</li> <li>• power brick 1/4 CQB150W-24S48 9~36V IN / 48V Out 150W (SYS+PSE) (OEM SPEC)</li> </ul>
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## 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

Specification are subject to change without prior notice. ODM / OEM is available.