HAWK-3I130TW

Fanless Embedded Computer with
13th Gen Intel® Raptor Lake-U Processor



DIO & Mobile Rack by OEM option.



Features:

- Intel® 13th Gen Raptor Lake-U, i7 / i5 / i3, Pentium CPU
- Intel® 12th Gen Alder Lake-U, i7 / i5 / i3, Celeron CPU
- Onboard LPDDR5, 16GB / 32GB
- Multiple Independent display:
  1 x HDMI, 1 x DP, 1 x Type C DP ALT Mode
- 5 x Intel 2.5 GbE LAN, 3 x USB 3.2, 1 x USB 2.0
- 1 x M.2 M Key, 2 x M.2 BKey, 1 x Nano SIM
- 2 x COM, 4DI / 4DO, TPM 2.0, SMBus, I^2C
- Isolated Wide Range DC-IN, CPC-Ignition on/off control

Specifications :

Motherboard	3I130TW	
CPU	Intel® 13th Gen Raptor Lake-U, i7 / i5 / i3, Pentium CPU Intel® 12th Gen Alder Lake-U, i7 / i5 / i3, Celeron CPU	
Chipset	Intel Raptor LakeU ; Alder Lake-U SoC	
Memory	Onboard LPDDR5, 16GB / 32GB	
Storage	OEM option-Onboard (256GB / 512 GB / 1TB) NVMe, Mobile Rack x 2 (option), M.2-SSD	
Expansion slots	1 x M.2 B key Type 2242 / 3042 (PCIe x1 / USB 2.0) 1 x M.2 M key Type 2242 / 3042 / 3080 (PCIe x 4), Support NVMe 1 x M.2 B key Type 2242 / 3042 / 3052 (USB 3.2 Gen 1 x 1 / USB 2.0) 1 x Nano SIM	
I/O ports	Network	5 x Intel 2.5GbE I226-IT
	USB	3 x USB 3.2 Gen 1 x1, 1 x USB 2.0 1 x Type C USB 3.2
	Serial ports	2 Isolated RS232 / 422 / 485
	Display	1 x HDMI, 1 x DP, 1 x Type C DP ALT Mode
	GPIO	4 x DI / 4 x DO (option)
	HD Audio	Line-out / Mic-in
Optional Modules & Accessory	*SATA Kit *VESA Mounting Kit *System Mounting Kit	
OS Support	Windows® 10 IOT ; Windows® 11 IOT Ubuntu 22.04 above, Fedora 36 above	

Mechanical

Dimensions	220W x 172.6D x 80H mm 220W x 176.6D x 80H mm (Mobile Rack-option)
Weight	3.6 kg
Mounting	*System Mount *VESA Mount

Power

DC input

- Isolated Wide Range DC IN +9~36V ; CPC-Ignition on/off control
- Wide Range DC IN +18~75V (option)
- Isolation Power Module: 1.5KVDC I/O isolation
- 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)

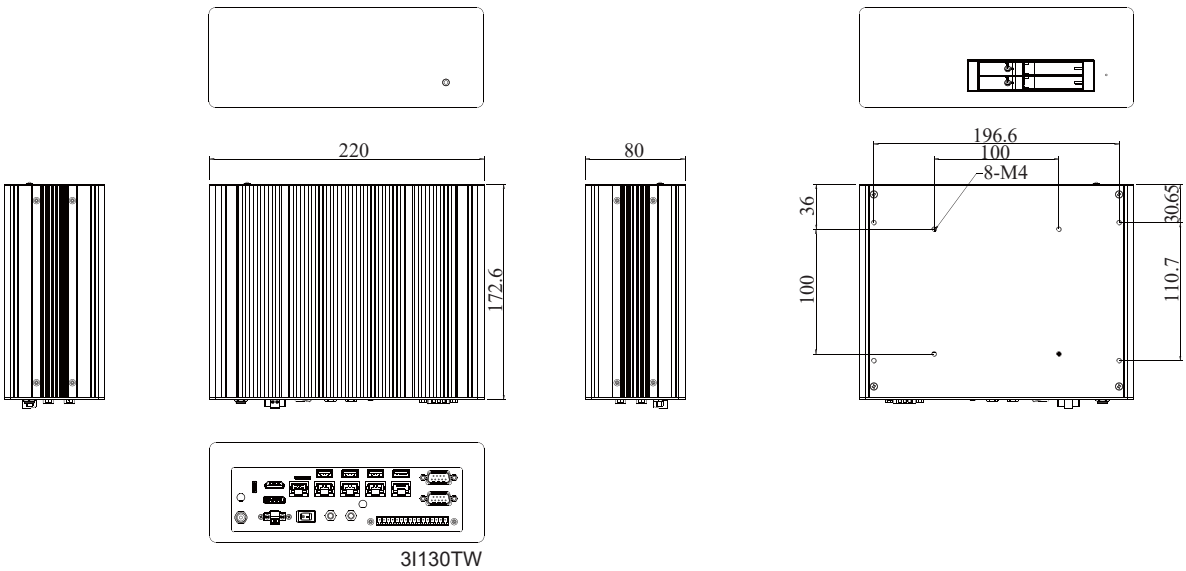
Environment

Operating Temp. (100 % CPU usage)	-40°C~+70°C (under specific environmental & CPU power consumption conditions)
Storage Temp.	-40°C~70°C
Relative Humidity	95% @ 40°C, non-condensing

Certification

CE / FCC, EN50155, E13

Dimension



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