EC70A-HPT

AMD Ryzen™ 8000 series
Fanless Robust Embedded System

KEY FEATURES

AMD Ryzen™ 8000 series
AMD Ryzen™ 8640U / 8840U Processor, TDP=15W for Fanless, TDP=28W for w/Fan.

Dual Displays
HDMI (4K@30Hz) + DP++ (4K@60Hz)

Two DDR5 SO-DIMM socket
Up to 2 SO-DIMM sockets for DDR5-5600 memory modules up to 128GB, ECC support

5G Support
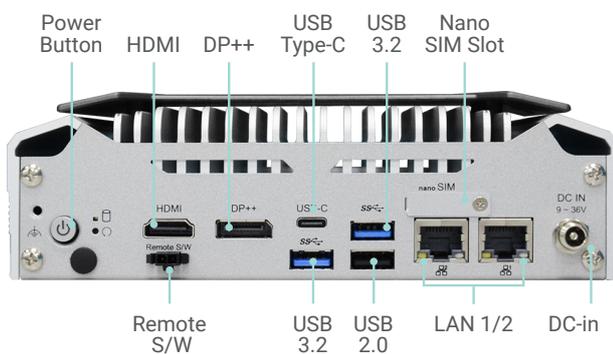Support M.2 B key 3042/3052 5G-NR module

Support OOB
remote Power on/off & reset, BIOS update...etc.
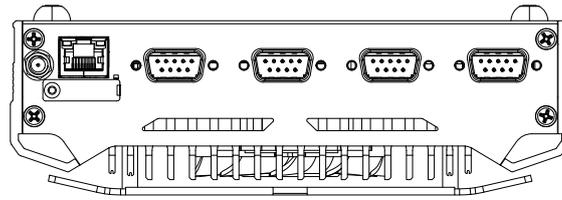
PANEL

Power Button · HDMI · DP++ · USB Type-C · USB 3.2 · Nano SIM Slot

Remote S/W · USB 3.2 · USB 2.0 · LAN 1/2 · DC-in

Front View

micro SD socket

COM 1~4 · LAN 3

Rear View

DFI | Desire For Innovation

DIMENSIONS

Rear View

Left View

118.40

181.60

56.80

Right View

Front View

WALL MOUNTING

192.80

5

16

108

80

46

25
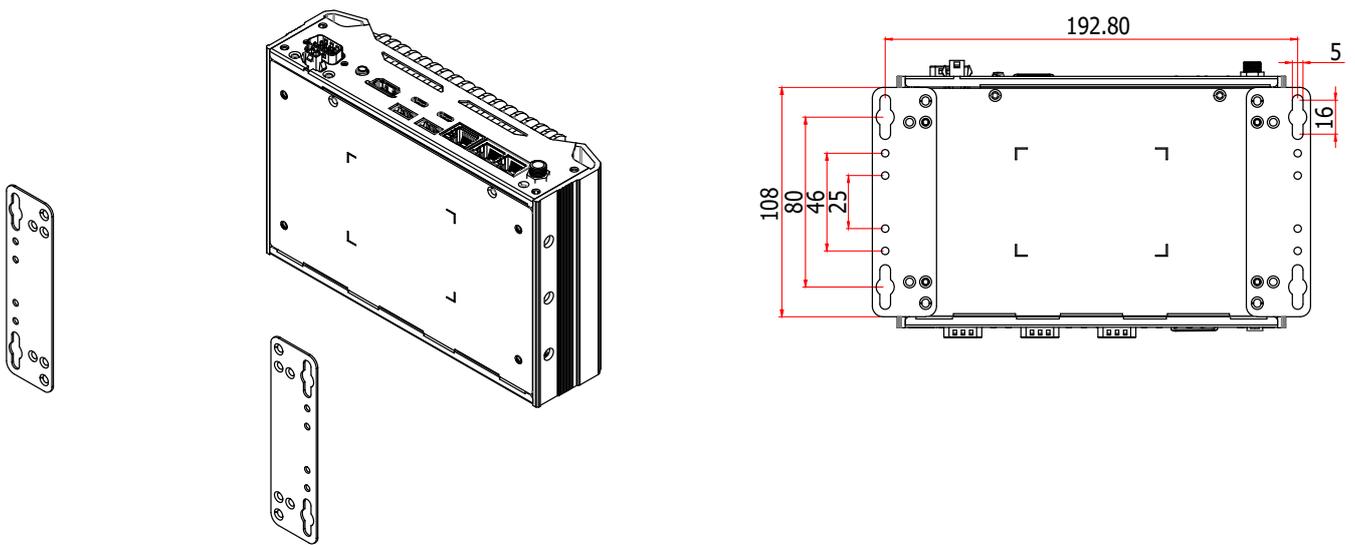
DIN RAIL MOUNTING
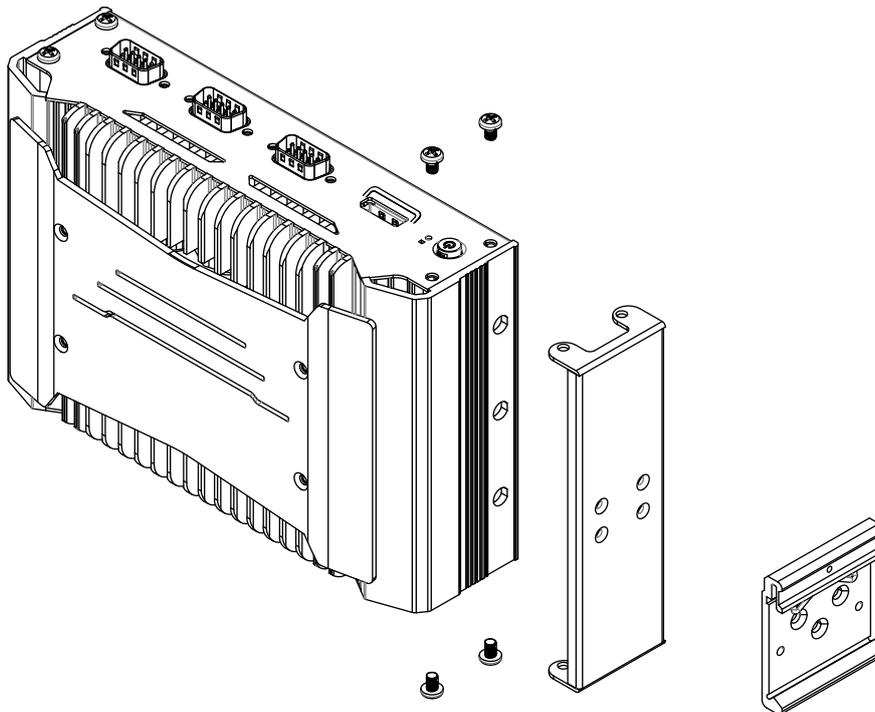
SPECIFICATION

SYSTEM	**Processor**	AMD Ryzen™ 7 8840U (5.1 GHz max.) AMD Ryzen™ 5 8640U (5.1 GHz max.)	
	Memory	Up to 2 SO-DIMM sockets for DDR5 5600 memory modules up to 128GB, ECC support	
	BIOS	AMI SPI 256Mbit	
GRAPHICS	**Controller**	AMD Radeon™ 780M (R7) AMD Radeon™ 760M (R5)	
	Feature	DirectX 12, Open GL 4.6, Vulkan 1.2 HW Decode: AV1, AVC/H.264, MJPEG, HEVC/H.265, VP9, SCC HW Encode: MJPEG, AVC/H.264, HEVC/H.265, VP9, SCC	
	Display	1 x HDMI 1 x DP++	HDMI: resolution up to 4096x2160 @30Hz DP: resolution up to 4096x2304 @60Hz
	Multiple Displays	HDMI + DP++ + 1 Type-C DP Alt. Mode	
AI ACCELERATOR	**Controller**	AMD Ryzen™ AI, 16 TOPS	
EXPANSION	**Interface**	1 x M.2 M Key 2280 (PCIe x4) 1 x M.2 B Key 3042/3052 (USB 3.0/USB2.0/PCIe x1/SATA), 1 x Nano SIM slot 1 x M.2 E Key 2230 (PCIe/USB 2.0/CNVi)	
ETHERNET	**Controller**	2 x Intel® I225IT (10/100/1000/2500Mbps) 1 x Intel® I210IT (10/100/1000Mbps, support OOB) (Only Core i7/i5 supports iAMT)	
LED	**Indicators**	1 x Status LED (Green) 1 x HDD LED (Blue)	
FRONT I/O	**Ethernet**	2 x LAN	
	USB	2 x USB 3.2 Gen2 1 x USB 2.0 1 x USB Type-C	
	Display	1 x DP++ 1 x HDMI 1 x Type-C DP Alt. Mode	
	Buttons	1 x Power button 1 x Reset button	
	SIM Slot	1 x Nano SIM slot	
	Power	1 x DC input	
REAR I/O	**Ethernet**	1 x LAN	
	Serial	4 x COM	
	SD	1 x micro SD socket	
WATCHDOG TIMER	**Output & Interval**	System Reset, Programmable via Software from 1 to 255 Seconds	
SECURITY	**TPM**	TPM 2.0	
POWER	**Type**	60W, 12V/5A	
	Connector	DC Jack	
OS SUPPORT	**Microsoft**	Windows 11 IoT Enterprise LTSC 2024	
	Linux	Linux	
ENVIRONMENT	**Operating Temperature**	-20~60°C (CPU TDP 15W, Fanless, with 0.7m/s air flow) -20~70°C (CPU TDP 28W, with Fan)	
	Storage Temperature	-40 to 85°C	
	Relative Humidity	5 to 95% RH (non-condensing)	
MECHANISM	**Construction**	Aluminum + Metal Aluminum	
	Mounting	Wall/VESA/DIN rail mount	
	Dimensions (W x H x D)	181.6mm x 57mm x 118.4mm	
	Weight	1.2 Kg	
STANDARDS AND CERTIFICATIONS	**Shock**	Half sine wave 3G, 11ms, 3 shock per axis	
	Vibration	IEC68-2-64 w/M.2 SSD Condition: -Random: 1Grms @ 5~500 Hz, IEC60068-2-64	
	Certifications	CE, FCC Class A, RoHS, UKCA	

PACKING LIST

1 EC70A-HPT system unit
3 M.2 slot slot screws
4 Foot screws & Rubber Foot
1 Grounding screw
1 Remote switch cable