



Features

- AMD Ryzen™ Embedded 8000 series APU on board, up to 8 cores/16 threads
- Dual Channel SO-DIMM, DDR5 5600, Max. 128GB (per DIMM), Total capacity: 256GB
- Supports 1x DP 2.1, 1x HDMI 2.1; Up to 8K resolution
- Graphics: RDNA3; NPU: XDNA, 39 TOPs
- 1x M.2 B-Key for 5G or LTE options
- 1x M.2 E-Key for Wi-Fi, Bluetooth or capture card options

Specifications

System Mainboard	IB301; AMD Ryzen™ Embedded 8000 Series
CPU Type	AMD Ryzen™ Embedded 8000 series APU (8640U, 8640U)
System Speed	3.3 GHz ~ 3.5 GHz
Memory	2x SO-DIMM DDR5 16G/5600
AI Inference Computing Power	39 TOPs
Front Panel External I/O	1x HDMI 2.1 2x USB 3.2 Gen1 Type-A 2x USB 2.0 Type-A 1x DC IN 12V ~ 24V DC 1x COM port 1x RJ45 for 2.5GbE
Rear Panel External I/O	2x USB 2.0 Type-A
Expansion Slot	1x PCIe Gen4 x4 (M.2 NVMe) M-Key Type 2280 1x M.2 (E-Key, Type:2230, supports CNVi) 1x M.2 (B-Key, Type:3052, supports 5G/LTE) 1x SIM socket (Nano SIM)
Storage	1x M.2-2280 PCIe4x4 NVME, 256GB 3D TLC
Power Requirement	12V ~ 24V DC
Power Supply	1x DC in +12V (-10% tolerance) ~ +24V (+10% tolerance) input, Connector type: 4-pin, 45 W
Construction	SGCC
Chassis Color	Black
Mounting Type	DIN rail, wall mount
Dimensions	215.6mm (W) x 177.6mm (D) x 55.2mm (H)
Weight	3 kg
Operating Temperature	0°C ~ 45°C
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	0%~ 90% (non-condensing)
Vibration	Operating: 1 grms / 3~500Hz / random operation
Shock	Operating: 20 g / 11 ms Non-operating: 40 g / 11 ms
Certification	CE, FCC & LVD
Operating System	Ubuntu 22.04 Windows 11

Ordering Information

AA400-NM	Fanless SYS with 3.5" AMD Ryzen™ Embedded 8000 series (Hawk Point 8840U, CPU Freq. 3.3 GHz up to 5.1 GHz, 8 Cores, 16 Threads, TDP @15), 12V/150W Power Adapter Included, w/o Memory and Storage
AA400-N8640M	Fanless SYS with 3.5" AMD Ryzen™ Embedded 8000 series (Hawk Point 8640U, CPU Freq. 3.5 GHz up to 4.9 GHz, 6 Cores, 12 Threads, TDP @15), 12V/150W Power Adapter Included, w/o Memory and Storage

Dimensions and Drawing

