

IoT SuperServer ARS-E103-JONX-H2-01-G2

Compact fanless edge AI platform, with 8-core Jetson Orin™ NX module. Up to 157 TOPS.



Key Applications

Retail - Point of Sales

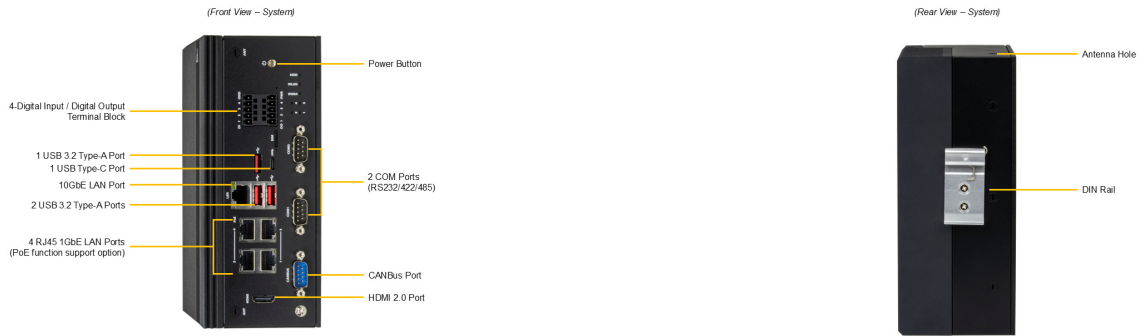
Gold Configuration Details

- CPU: 1x Arm® Cortex®-A78AE v8.2 64-bit
- Memory: 16GB LPDDR5X Onboard Memory
- M.2: 1x 256GB M.2 NVMe SSD
- NIC: 1x 10GbE RJ45
- NIC: 4x 1GbE RJ45 (PoE Optional)



Base System Specs

Form Factor	Fanless Embedded Enclosure: 185 x 80 x 140mm (7.28" x 3.15" x 5.5") Package: 290 x 200 x 230mm (11.42" x 7.87" x 9.06")
Processor	Arm® Cortex®-A78AE v8.2 64-bit CPU 8C/8T; 6MB Cache
System Memory	Slot Count: Onboard Memory Max Memory: 16GB ECC LPDDR5X
Drive Bays Configuration	1 M.2 PCIe 4.0 x4 NVMe slot (M-key 2280(default))
Expansion Slots	1 M.2 PCIe 4.0 x4 NVMe slot (M-key 2280(default)) 1 M.2 PCIe 4.0 x1 slot (E-key 2230(default); USB 2.0) 1 M.2 slot (B-key 3052(default)/3042; USB 3.0)
On-Board Devices	4 RJ45 1GbE with Intel® I210-IT 1 RJ45 10GbE with Marvell® AQC113C No NIC option supported
Input / Output	LAN: 3 RJ45 1 GbE LAN ports (Intel® I210-IT) 1 RJ45 10 GbE LAN port (Marvell® AQC113) 1 RJ45 1 GbE LAN port (SoC) USB: 1 USB 3.2 Gen2 Type-C port(Front) 3 USB 3.2 Gen2 Type-A ports(Front) Video: 1 HDMI 2 port(Front) Serial: 2 COM RS232/RS422/RS485 ports(Front) Others: 1 CANBus port 1 4 DI/4 x DO (terminal block) port



System Cooling Fans: N/A

Dimensions and Weight Weight: Gross Weight: 4.3 lbs (1.95 kg)
 Net Weight: 3.7 lbs (1.68 kg)
 Available Color: Black

Operating Environment RoHS Compliant
 Operating Temperature: -25°C to 60°C (-13°F to 140°F) with 0.7 m/s airflow
 Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)
 Operating Relative Humidity: 8% to 80% (non-condensing)
 Non-operating Relative Humidity: 8% to 90% (non-condensing)

Motherboard [Super AOM-JSOR-001](#)

Chassis CSE-E102L