# IoT SuperServer ARS-E103-JONX-H

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

More details here

## Key Applications

Imaging and Computer Vision, Industrial Automation, Healthcare, Artificial Intelligence, Digital Signage / PoS,

## Key Features

- Support Super Mode 40W boosting up AI inferencing performance;
- Fanless DIN Rail Mounted System
  Jetson Orin NX Fanless Edge AI Inferencing System;
- 8-core Arm ® Cortex ® -A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3;
- 1024-core NVIDIA Ampere GPU with 32 Tensor Cores, Up to 157 TOPS;
- 1 10G/1G LAN optional by Sku (10G: -H(2), 1G: -L(2))
  4 1Gbe w/ POE or 2 x1Gbe w/ PoE+ (by AOM-POE-001 jumper setting);
- 1 M.2 B-key 3042/3052 (USB3.2, USB2.0) w/ dual nano-SIM
  1 M.2 M-key 2280 (PCIe4.0 x4)
  1 M.2 E-key 2230 (PCIe x1, USB2.0) w/ optional WiFi module&antenna kit;
- 1 NVMe 2280 at M.2 M-Key;
- Lockable DC-IN Power Connector, supporting DC 9-36V
  Operating Temperature -25 to 60 (-13°F to 140°F) with 0.7m/s airflow and Industrial Grade peripherals;

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

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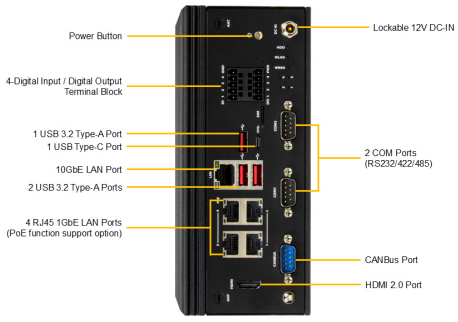
(Front View – System)




(Rear View – System)

| | |
|---|---|
| System Cooling | Fans: N/A |
| Power Supply | 1x 180W power supply |
| Dimensions and Weight | Weight: Gross Weight: 4.75 lbs (2.15 kg)<br>Net Weight: 3.25 lbs (1.47 kg)<br>Available Color: Black |
| Operating Environment | RoHS Compliant<br>Operating Temperature: -25°C to 60°C (-13°F to 140°F) with 0.7 m/s airflow<br>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)<br>Operating Relative Humidity: 8% to 80% (non-condensing)<br>Non-operating Relative Humidity: 8% to 90% (non-condensing) |
| Motherboard | **Super AOM-JSOR-001** |
| Chassis | **CSE-E102L2** |

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