

# QN-ORN16GH-A1

Industrial system with NVIDIA® Jetson Orin NX 16GB, including Ampere GPU + Arm Cortex-A78AE v8.2 64-bit CPU + 16GB LPDDR5



※ Display port and SD card slot are not available.

## Features

- System Size : 210W x 169.8D x 55.2H (mm)
- NVIDIA® Jetson Orin NX 16GB
- Up to 100 TOPs
- 8 x GbE LAN Ports with PoE 15W/Port
- 2 x GbE LAN Ports
- Fan-Less system
- AI, NVR, Surveillance Application

|                       |                                                                                                                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Memory                | 16GB 128-bit LPDDR5 DRAM (Module)                                                                                                                                                                                                   |
| Ethernet              | 8 x GbE LAN Ports with PoE 15W/Port, IEEE802.3af compliant, Total 120W<br>2 x GbE LAN Ports                                                                                                                                         |
| Display output        | 1 x HDMI 2.0 port, supporting a maximum resolution of 4096x2160 @60Hz                                                                                                                                                               |
| Storage               | 1 x SATA 6Gb/s (Swappable 2.5" HDD/SSD)                                                                                                                                                                                             |
| Expansion Slots       | 1 x 2280 M.2 M-Key (PCIe Gen4x1) for SSD<br>1 x 3052 M.2 B-Key for 4G/5G card (USB3 only)<br>1 x 2230 M.2 E-Key<br>1 x Mini PCIe slot<br>1 x SIM slot                                                                               |
| Front I/O             | 1 x Power button with LED<br>1 x HDD LED<br>1 x GPIO (12 bits)<br>1 x HDMI<br>1 x USB 2.0 Type Micro B<br>1 x Recovery button<br>2 x External Antenna Holes (Optional)                                                              |
| Rear I/O              | 4 x COM Ports (RS-232/422/485)<br>4 x USB 3.2 Gen 1<br>8 x GbE LAN ports with PoE 15W/port<br>2 x GbE LAN ports<br>1 x 3-pin Terminal Block                                                                                         |
| Side I/O              | 4 x External Antenna holes (optional)                                                                                                                                                                                               |
| Power                 | +54VDC (PoE support)                                                                                                                                                                                                                |
| Operation Temperature | Operating temperature: -20°C to 70°C<br>Operating humidity: 70°C @ 20-95% (non-condensing)<br>Non-operating temperature: -40°C to 85°C<br>Non-operating humidity: 70°C @ 95% (non-condensing)<br>Use wide temperature range storage |

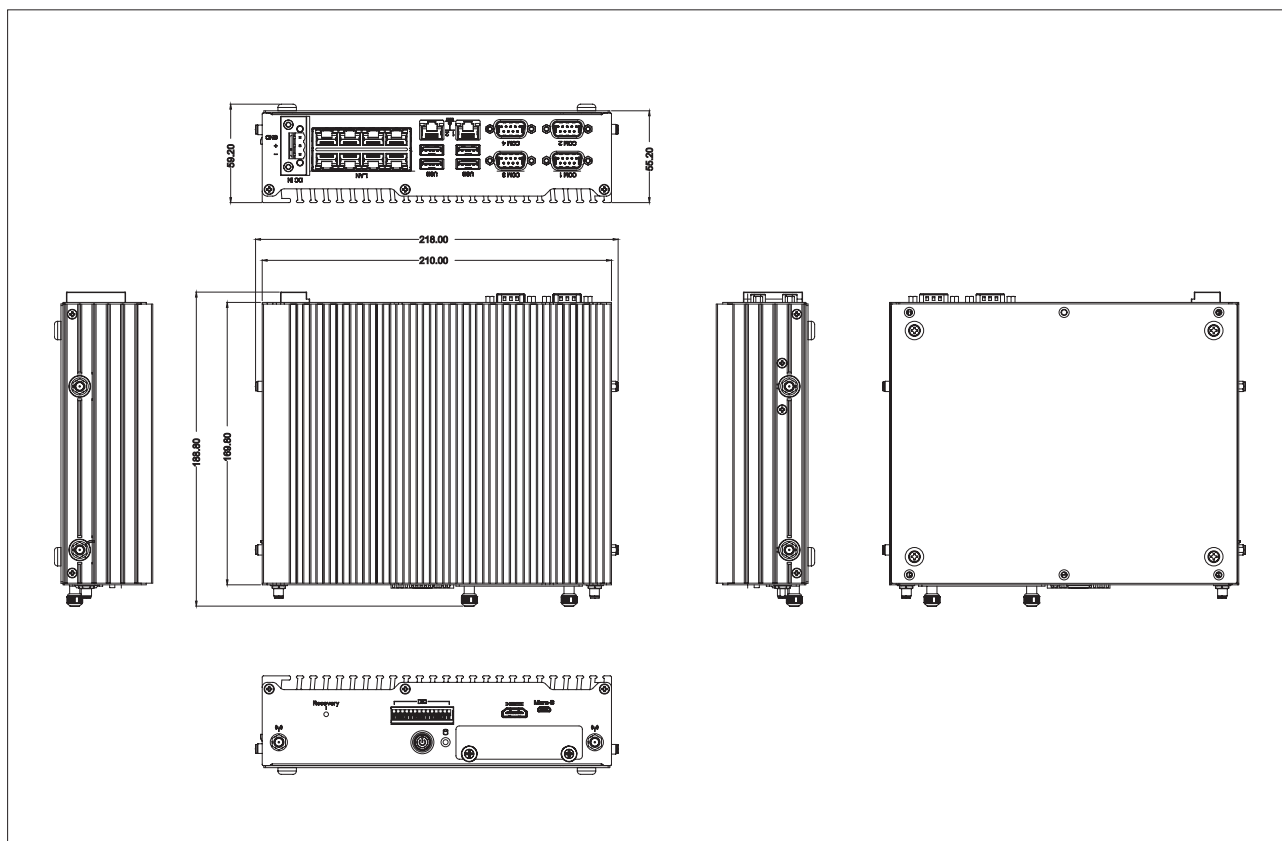
## Specifications

|                |                                                                                |
|----------------|--------------------------------------------------------------------------------|
| Dimension      | 210W x 169.8D x 55.2H (mm)                                                     |
| AI Accelerator | NVIDIA® Jetson Orin™ NX<br>Jetson Orin NX 16GB                                 |
| AI Performance | Up to 100 TOPs                                                                 |
| CPU            | 8-core Arm® Cortex®-A78AE v8.2 64-bit CPU<br>2MB L2 + 4MB L3                   |
| GPU            | NVIDIA® Ampere™ architecture with 1024 NVIDIA® CUDA® cores and 32 Tensor cores |

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## Dimension

Unit: mm



## Packing Content

- Carton size: 528 x 303 x 353 (mm)
- Packing Capacity: 4pcs
- Single Box size: 316 x 281 x 125 (mm)
- Including:
  - 54V/180W Adapter x 1 (P/N: 25EP4-101807-F3S)
  - Power Cord: Optional (by region)
  - Screw for 2.5" HDD/SSD, M3x4L x 4 (P/N: 25984G-1C014-S00)

## Order Information

- System: 9BQNORNXXCMR-SI

## Optional kit

- 54V/180W Adapter x 1 (P/N: 25EP4-101807-F3S)

2026/06/30

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