



# AEC-4001

## NVIDIA® Jetson Orin NX AI Embedded Computer



### Features

- Supports NVIDIA® Jetson Orin™ NX, Super Mode supported
- 1 x GbE port
- 4 x USB 3.2 ports
- 1 x HDMI 2.0 port
- DC 9 ~ 24V wide range power input

### System

|         |                                                                    |
|---------|--------------------------------------------------------------------|
| CPU     | 6-core Arm® Cortex®-A78AE v8.2 64-bit (AEC-4001-08)                |
|         | 8-core Arm® Cortex®-A78AE v8.2 64-bit (AEC-4001-16)                |
| Memory  | 8GB LPDDR5 DRAM (AEC-4001-08)                                      |
|         | 16GB LPDDR5 DRAM (AEC-4001-16)                                     |
| GPU     | 1024-core NVIDIA Ampere™ architecture GPU with 32 Tensor cores     |
| Storage | 1 x M.2 M-Key (2280), 256GB NVMe SSD (default), optional up to 1TB |

### I/O

|            |                                             |
|------------|---------------------------------------------|
| LAN        | 1 x GbE port                                |
| USB Port   | 1 x USB 2.0 port w/ USB Type C recovery     |
|            | 4 x USB 3.2 Gen1 ports w/ Type A connector  |
| Expansion  | 1 x M.2 M-Key 2280 Socket (for NVMe SSD)    |
|            | 1 x M.2 E-Key 2230 Socket (for WiFi module) |
|            | 1 x CAN 2.0 (3-pin terminal block)          |
|            | 1 x OOB supported (Optional)                |
| Video Port | 1 x HDMI 2.0, 3840 x 2160 4K 30Hz           |

### Environmental

|                    |                                                                  |
|--------------------|------------------------------------------------------------------|
| Operating Temp.    | -20°C to 65°C (-4°F to 149°F), with 0.63 m/s air flow (TDP: 25W) |
| Storage Temp.      | -40°C ~ 85°C (-40°F ~ 185°F)                                     |
| Operating Humidity | 5 ~ 95% (non-condensing)                                         |
| Relative Humidity  | 95% @ 50°C                                                       |

### Power Requirement

|             |             |
|-------------|-------------|
| Power Input | DC 9V ~ 24V |
|-------------|-------------|

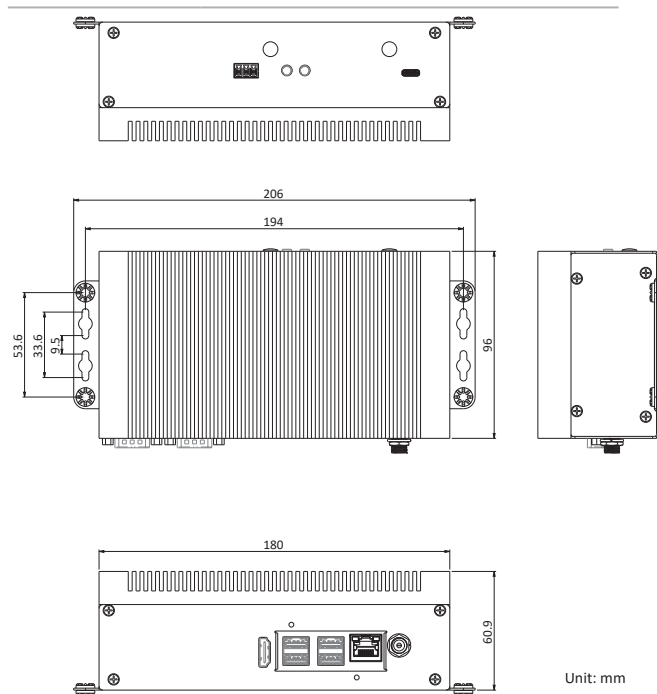
### Mechanical

|                        |                                             |
|------------------------|---------------------------------------------|
| Button                 | 1 x Power Button, 1 x Force Recovery Button |
| Antenna                | Antenna hole for WiFi                       |
| Mounting               | Wallmount                                   |
| Weight                 | 1.25 Kg                                     |
| Dimensions (W x D x H) | 180 mm x 96 mm x 60.9 mm                    |

### OS Support

Ubuntu 22.04/ NVIDIA JetPack 6.2

### Dimensions



### Ordering Information

| Model       | NVIDIA Jetson Module Orin | 1x LAN | TOPS |
|-------------|---------------------------|--------|------|
| AEC-4001-08 | NX 8GB                    | v      | 117  |
| AEC-4001-16 | NX 16GB                   | v      | 157  |