



AEC-4201

NVIDIA® Jetson Orin™ NX AI Embedded Computer



Features

- Supports NVIDIA® Jetson Orin™ NX, Super Mode supported
- Support 1 x GbE
- Support 4 x PoE+, 1 x Serial port
- 4 x USB 3.2 ports
- 1 x HDMI 2.0 port
- DC 12V~54V wide range power input

System

CPU	6-core Arm® Cortex® -A78AE v8.2 64-bit (AEC-4201-8) 8-core Arm® Cortex® -A78AE v8.2 64-bit (AEC-4201-16)
Memory	8GB LPDDR5 DRAM (AEC-4201-8) 16GB LPDDR5 DRAM (AEC-4201-16)
GPU	1024-core NVIDIA Ampere™ architecture GPU with 32 Tensor Cores
Storage	1 x M.2 M-Key (2280), 128GB NVMe SSD (default), optional up to 2TB
I/O	
Serial Port	1 x RS-232/422/485 port
GPIO	1 x DB9 for 6-bit GPIO
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 Wi-Fi module) 1 x M.2 B-key 3042/3052 Socket (for 4G/5G module) 1 x SIM slot 1 x CAN 2.0 (3-pin terminal block)
Video Port	1 x HDMI 2.0, 3840 x 2160 4K 30Hz
PoE	4 x GbE PoE + LAN w / RJ-45 connector

Environmental

Operating Temp.	-20 ~ 65°C (-4 ~ 149°F), with 0.63 m/s air flow (TDP: 25W)
Storage Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	5 ~ 95% (non-condensing)
Relative Humidity	95% @ 50°C
Vibration/Shock	2Grms at 5 ~ 500Hz Random mode, 1hr/axis IEC 60068-2-64

Qualification

Certification	CE, FCC, EN50155(TBA), EN50121-3-2(TBA)
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Power Requirement

Power Input	DC 12~54V
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Mechanical

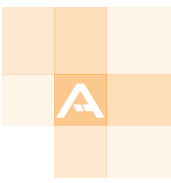
Button	1 x Power Button, 1 x Force Recovery Button
Antenna	Antenna hole for Wi-Fi
Mounting	Wallmount
Weight	2.0Kg
Dimensions (W x D x H)	180 x 96(+) x 85.9 mm (7.09" x 3.78" x 3.38")

OS Support

Ubuntu 22.04 / NVIDIA JetPack 6.2

Ordering Information

Model	Jetson Module Orin	COM port	3 x DI 3 x DO	1 x LAN	4 x PoE	4 x GMSL 1/2	4G/5G	TOPS
AEC-4201-08	NX 8GB	✓	✓	✓	✓	x	✓	117
AEC-4201-16	NX 16GB	✓	✓	✓	✓	x	✓	157



Dimension

