

EAC-50N1/N2

Fanless Embedded Edge AI System with
NVIDIA® Jetson Orin Nano™ Super Mode



Features

- Powered by NVIDIA® Jetson Orin Nano™
- Support Jetson Orin Nano™ Super Mode
- Onboard 4/8 GB 64/128-bit LPDDR5
- Multiple I/O interface connections for data collection
- GbE LAN with PD/PSE, USB 3.1, Serial Port, CAN-FD
- Wide operating temperature -20 ~ 60°C

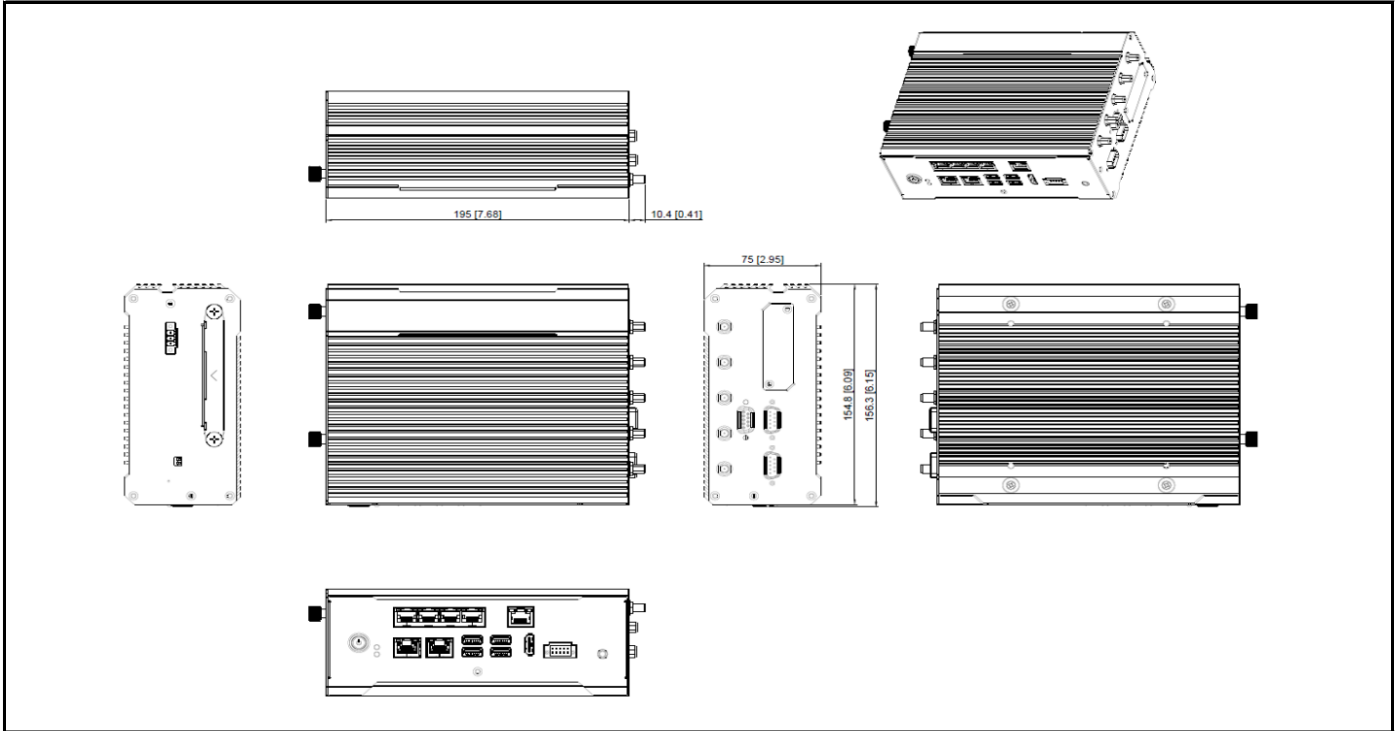
Specifications

System	
CPU/GPU	NVIDIA® Jetson Orin Nano™ 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU
Memory	Onboard 4/8 GB 64/128-bit LPDDR5
Storage	1 x M.2 M-Key 2280, support NVMe
Real time clock	Yes
Indicators	4 x LED indicator (Power)
Wireless	1 x M.2 E-Key 2230 1 x M.2 B-Key 3052
Operating System	Linux (NVIDIA JetPack 6.0)
Power Supply	
Power Requirement	9 ~ 48 VDC
Power Consumption	Max. 45 W (with Fan)
MTBF (Hours)	--
Environmental and Mechanical	
Dimension	195 x 154.8 x 75 mm (7.67" x 6.09" x 2.95")
Weight	2.4 kg
Mouting/Installation	Din Rail, Wall Mount, VESA
Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 176 °F)
Operating Humidity	10% ~ 95% relative humidity, non-condensing
Certification	
Regulations	CE, FCC
Carrier	Planning

Interface	
Serial Port	2 x RS-485 with DB9 connector
CAN Bus	1 x CAN-FD with DB9 connector
Ethernet	4 x GbE LAN support PSE max 15 W, RJ45
	1 x GbE LAN
	1 x GbE LAN support PD 60 W 1 x GbE LAN support PSE 30 W, RJ45
USB	4 x USB 3.1, Type-A
DI/DO	8 x Alarm I/O
AI/AO	--
Display	1 x HDMI 2.0-Out
Power Connector	3-pin Terminal Block
Debug Port	1 x Micro USB for console
Expansion Slot	1 x SIM card slot
Other Interface	--

Dimension

Unit: mm / inch



Ordering Information

Packing List

- 1 x EAC-50N1 BOX
- 1 x 3-pin Terminal Block Connector
- 1 x 10-pin Terminal Block Connector
- 1 x Wall Mount

Part Number

EAC-50N1-00-203N00/ 2EAC-50N1-0300-01	NVIDIA® Jetson Orin Nano™, 4 GB, 9 ~ 48 VDC
EAC-50N1-00-204N00/ 2EAC-50N1-0400-01	NVIDIA® Jetson Orin Nano™, 8 GB, 9 ~ 48 VDC
EAC-50N1-00-203N05/ 2EAC-50N1-0305-01	NVIDIA® Jetson Orin Nano™, 4 GB, 128 GB NVMe, 9 ~ 48 VDC
EAC-50N1-00-204N05/ 2EAC-50N1-0405-01	NVIDIA® Jetson Orin Nano™, 8 GB, 128 GB NVMe, 9 ~ 48 VDC

Optional Accessories

Part Number / Item

4B01XUD12060AS3	Adapter (In:100 ~ 240 V/Out: 12 VDC 5A 60W)
4K02X00000030AR	Power Cord EU
4K02X00000020AR	Power Cord US
4710EM060KG5301	Quectel EM060K-GL 4G LTE, M.2 3042
4710RM520NG5301	Quectel RM520N-GL 5G NR, M.2 3052
4FP-MD00000	EnLi ENL-R8852BE Wi-Fi 6 BT 5.2 M.2 2230