Acrosser Technology Co., Ltd.

EAC-50N1

NVIDIA® Jetson Orin™ Nano AI Box

Preliminary

Features

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

Specifications

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

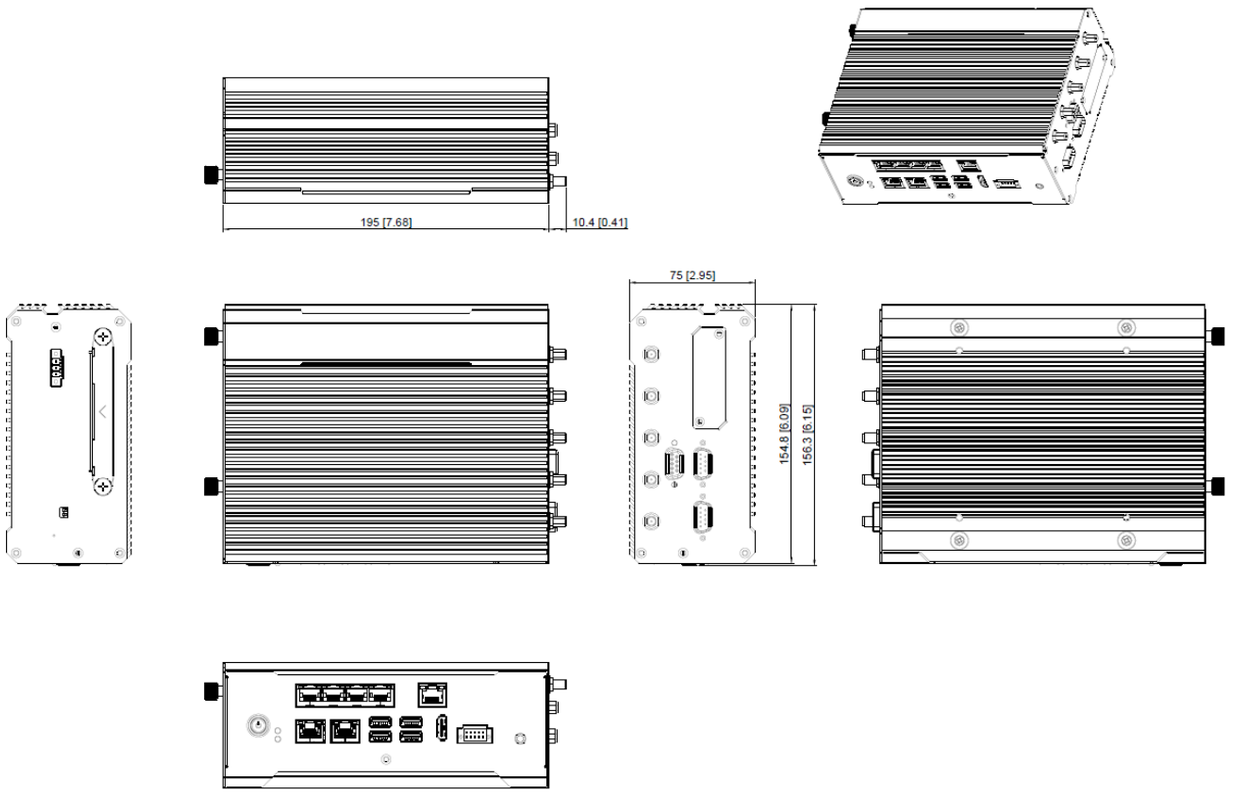
Interface	
Serial Port	2 x RS-485 with DB9 connector
CAN Bus	1 x CAN-FD with DB9 connector
Ethernet	4 x Gbe LAN support PSE (Max 15W),RJ45 1 x Gbe LAN 1 x GbE LAN support PD 60W 1 x GbE LAN support PSE 30W, RJ45
USB	4 x USB 3.1, Type-A
DI/DO	8 x Alarm I/O
AI/AO	--
Display	1 x HDMI 2.0-Out
Power Connector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

Note: All specifications are subject to change without notice.

Radio Frequency		
LTE 4G (CAT 1) **(Optional)**	3GPP Rel.9 compliant protocol Frequency bands: FDD LTE: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19 /B20 /B25/B26/B28 TDD LTE: B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM: B2/B3/B5/B8	SIM card size: nano-SIM slot Antenna type: External type Antenna connector: SMA-Male
GPS (Optional)	GPS/GLONASS/BeiDou (Compass)/Galileo	

Dimension

Unit: mm / inch



Ordering Information

Part Number	Packing List
EAC-50N1-00-203N00 2EAC-50N1-0300-01 NVIDIA® Jetson Orin™ Nano, 4GB, 9 to 48VDC **EAC-50N1-00-204N00 2EAC-50N1-0400-01** NVIDIA® Jetson Orin™ Nano, 8GB, 9 to 48VDC **EAC-50N1-00-203N05 2EAC-50N1-0305-01** NVIDIA® Jetson Orin™ Nano, 4GB, 128GB NVMe, 9 to 48VDC **EAC-50N1-00-204N05 2EAC-50N1-0405-01** NVIDIA® Jetson Orin™ Nano, 8GB, 128GB NVMe, 9 to 48VDC	**EAC-50N1 BOX x1** **3-pin Terminal block Connector x1** **10-pin Terminal block Connector x1** **Wall Mount x1**

Optional Accessories

Part Number / Item	
5AA001ACA00009R	Adapter (In:100-240V / Out: DC 19V 6.32A 120W)
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 WiFi 6 BT 5.2 M.2 2230

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