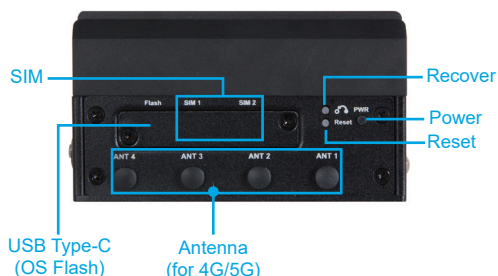
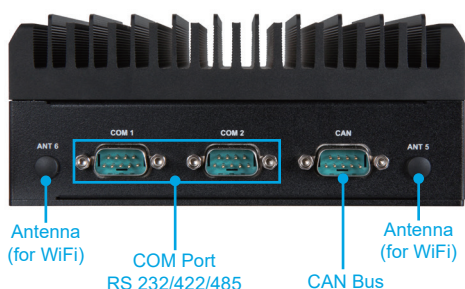
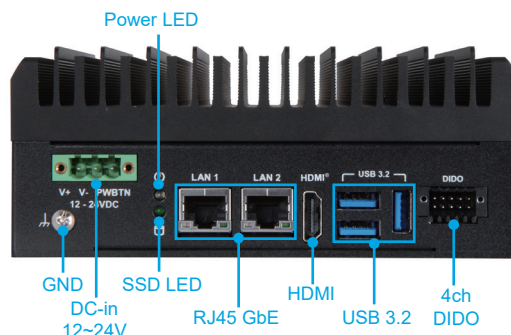


PJAI-1100

Fanless Compact System with NVIDIA® Jetson Orin Nano™ or Jetson Orin™ NX for Edge AI Applications



FEATURES

- Fanless System with NVIDIA® Jetson Orin module up to 100 TOPS
- 4GB/8GB/16GB 64-bit LPDDR5 (By SOM)
- Supports 1x M.2 2230 Key E, 1x M.2 3042/3052 Key B, 1x M.2 2280 Key M NVMe (PCIe x4) and 2x Nano SIM slots
- Supports 2x RJ45 GbE and 3x USB 3.2 Type A ports
- 2x DB9 COM ports and 1x DB9 CANbus

Ordering Guide

AS5-3748	PJAI-1100-ON4G (R).ATO.PJAI-1100-ON4G.Embedded System. Nvidia Jetson Orin Nano(4GB) (260pin SO-DIMM),12-24V
AS5-3747	PJAI-1100-ON8G (R).ATO.PJAI-1100-ON8G.Embedded System. Nvidia Jetson Orin Nano(8GB) (260pin SO-DIMM),12-24V
AS5-3746	PJAI-1100-ON8G (R).ATO.PJAI-1100-ON8G.Embedded System. Nvidia Jetson Orin NX(8GB) (260pin SO-DIMM),12-24V
AS5-3745	PJAI-1100-ON16G (R).ATO.PJAI-1100-ON16G.Embedded System. Nvidia Jetson Orin NX(16GB) (260pin SO-DIMM),12-24V

General

Processor	NVIDIA® Jetson Orin™ Nano 4GB NVIDIA® Jetson Orin™ Nano 8GB 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3 NVIDIA® Jetson Orin™ NX 8GB 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3 NVIDIA® Jetson Orin™ NX 16GB 8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
Memory	Support up to 16GB LPDDR5 on board
Storage	1 x M.2 Key-M NVMe PCIe x4 2280

Rear I/O

Ethernet	2 x 1 GbE LAN
Serial Port	2 x COM Ports Support RS-232/422/485 1 x CANbus FD
USB	3 x USB 3.2 Gen2 x1 (10Gbps) Type A 1 x USB 3.2 Gen2 x1 (10Gbps) Type C
GPIO	1 x 8-bit Digital I/Os
Display	1 x HDMI® 2.0b
Other	Power Button, Reset Button, Recovery Button
LED	Power, Storage
Antenna	6 x SMA Antenna holes for LTE / 5G / Wi-Fi
SIM Slots	2 x Nano-SIM

Expansion I/O

M.2	1 x B Key w/ 3042/3052 1 x E Key w/ 2230
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Mechanical/Environment

Dimension(WxDxH)	152 x 109 x 63 mm (5.98" x 4.29" x 2.48")
Weight	1.31 kg
Power Supply	Terminal Block 12~24V
Mounting	Wall Mount, DIN Rail Mount
Vibration	1G 5~500Hz with Wall mount (IEC/EN 60068-2-6) 0.5G 5~500Hz with Din rail (IEC/EN 60068-2-6)
Shock	50G 11m sec with Wall mount (IEC/EN 60068-2-27) 15G 11m sec with Din rail (IEC/EN 60068-2-27)
Operating Temperature	-20 ~ 60 °C (-40.0 ~ 140.0 °F)
Storage Temperature	-40 ~ 85 °C (-40.0 ~ 185.0 °F)
Cooling	Fanless
BSP	NVIDIA JetPack SDK 6.2
Relative Humidity	5% to 95%, non-condensing
Certification	CE/FCC/UKCA Class A
OS	Linux™

*All information provided is subject to change without notice. Last updated: December 12, 2025