

PJAI-100-ON

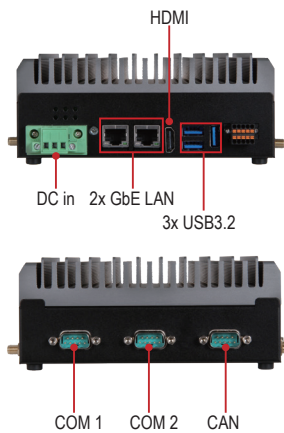
Fanless Compact System with NVIDIA® Jetson Orin Nano™ for Edge AI Applications



Designed with NVIDIA® Jetson Orin Nano™ SOM, Portwell's rugged and compact PJAI-100-ON supports a wide industrial temperature range from -20°C to 60°C, while its fan-less design ensures silent operation, reliability and low maintenance rate. In addition, it integrates M.2 Type E and M.2 Type B for wireless connectivity, and the support of dual Gigabit Ethernet LAN ports suitable for Edge AI applications and more.

FEATURES

- Fanless System with NVIDIA® Jetson Orin Nano™ SOM
- 4GB/8GB 64-bit LPDDR5 (By SOM)
- 1x M.2 2280 M-Key NVMe (PCIe x4)
- Supports 1x M.2 2230 E-Key, 1x M.2 3042/3052 B-Key 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



System

SOM	NVIDIA® Jetson Orin Nano™
CPU	6/8-core Arm® Cortex®-A78AE v8.2 CPU
Memory	4/8GB 64-bit LPDDR5 (By SOM)
Storage	1x M.2 2280 M-Key (PCIe x4)
Expansion	1x M.2 2280 M-Key (PCIe x4) 1x M.2 3042/3052 B-Key 1x M.2 2230 E-Key 2x Nano SIM slots

External I/O

Ethernet	2x RJ45 GbE ports
USB	3x USB 3.2 Gen1 Type-A 2x USB 2.0 pin-header 1x USB 2.0 Micro-USB for OS Flash 1x USB 2.0 Type C for debug
DIO	8x DIDO
Serial Port	2x DB9 COM port for RS-232/422/485 1x DB9 CANbus
Display	HDMI (Max. resolution 3840x2160 @ 60Hz)

Power Supply

Power Input	DC-IN 12V ~ 24V with 3-pin terminal block
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Environmental

Operating Temp	- 20°C to 60°C (-4°F ~ 140°F)
Storage Temp	- 40°C to 85°C (-40°F ~ 176°F)
Humidity	5 ~ 95% @ 40°C, non-condensing

Mechanical

Dimension	152 x 112 x 62 mm (5.9" x 4.4" x 2.5")
Weight	1.4kg (3.08lbs)
Mounting	Wall mount / DIN-Rail

ORDERING GUIDE

TBD

TBD

Portwell, Inc. Headquarters

No. 242, Bo' Ai St., Shu-Lin Dist,
New Taipei City 238, Taiwan
Tel: +886-2-7731-8888
Fax: +886-2-7731-9888
E-mail: info@portwell.com.tw
www.portwell.com.tw

American Portwell
(Fremont, CA)
Tel: +1-510-403-3399
E-mail: info@portwell.com
www.portwell.com

Portwell UK Ltd.
Tel: +44(0)1235-750-760
E-mail: info@portwell.eu
www.portwell.eu

Portwell Japan, Inc.
(Tokyo)
Tel: +81-3-6902-9225
E-mail: info@portwell.co.jp
www.portwell.co.jp

Portwell Japan, Inc.
(Osaka)
Tel: +81-6-4807-7721
E-mail: info@portwell.co.jp
www.portwell.co.jp

European Portwell
Tel: +31-252-620790
E-mail: info@portwell.eu
www.portwell.eu

KIOSK Embedded
Systems GmbH
Tel: +49-8152-3962-500
E-mail: info@portwell.eu
www.portwell.de

Shanghai Portwell
Tel: +86-21-5771-2505
E-mail: info@portwell.com.cn
www.portwell.com.cn

Portwell Korea, Inc.
Tel: +82-31-450-3043
E-mail: info@portwell.co.kr
www.portwell.co.kr

Portwell India Technology Private Limited

Tel: +91-80-4168-4255
E-mail: enquiry@portwell.in
www.portwell.in

