

Model Name : VES-CNV06

NVIDIA® Jetson AGX Orin™ 32G Fanless AI Box PC

Revision History

Date	Revision	Page	Content	By
2026/4/29	0.1	All	First Draft	Tommy Chiang

ACT POWER TAIWAN
Preliminary

VES-CNV06

NVIDIA® Jetson AGX Orin™ 32G Fanless AI Box PC

Features

- Compact Fanless Design
- Embedded with NVIDIA® Jetson AGX Orin™ Up to 275 TOPS
- Supports 4 x GbE (Optional PoE), 4 x USB 3.2 Gen 2 (10 Gbit/s)
- Supports 2 x mPCIe, 2 x Nano SIM Slots
- Supports Allxon 24/7 Remote Monitoring and OTA Deployment; Azure Certified Devices

Appearance



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NVIDIA® Jetson AGX Orin™ 32G Fanless AI Box PC

Specification

System	
AI Accelerator	NVIDIA® Jetson AGX Orin™ 32GB
CPU	NVIDIA 8-Core Arm® Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
GPU	NVIDIA 1792-Core Ampere GPU with 56 Tensor Cores
Memory	32GB 256-bit LPDDR5
Storage	1 x SD Card Slot, 1 x M.2 2280 (M-Key, NVMe, Signal: PCIe x4)
Wireless LAN	Support Wi-Fi 6/BT 5.3 (via M.2 Key-E 2230 x 1)
Fanless	Yes
Power	
Power Supply	DC 9-36V, 16-4A
Interface	
Ethernet	4 x 10/100/1000 Mbps
PoE	4 x PoE (10/100 MbE, Single-30W/Total-60W)
USB	External: 2 x USB 2.0, 4 x USB 3.2 Gen2 Internal: 1 x USB 2.0
Serial Port	2 x RS-232/422/485 (Onboard P deader)
Mini PCIe	2 x mPCIe (Signal: PCIe=USB)
SIM	2 x Nano SIM Slots
M.2	1 x M.2 3052(B-Key, Signal: USB)
DIO	4-ch DI, 4-ch DO
Display	1 x HDMI (Max. Resolution 3840x2160 @60Hz)
Button	1 x Power ON/OFF Button

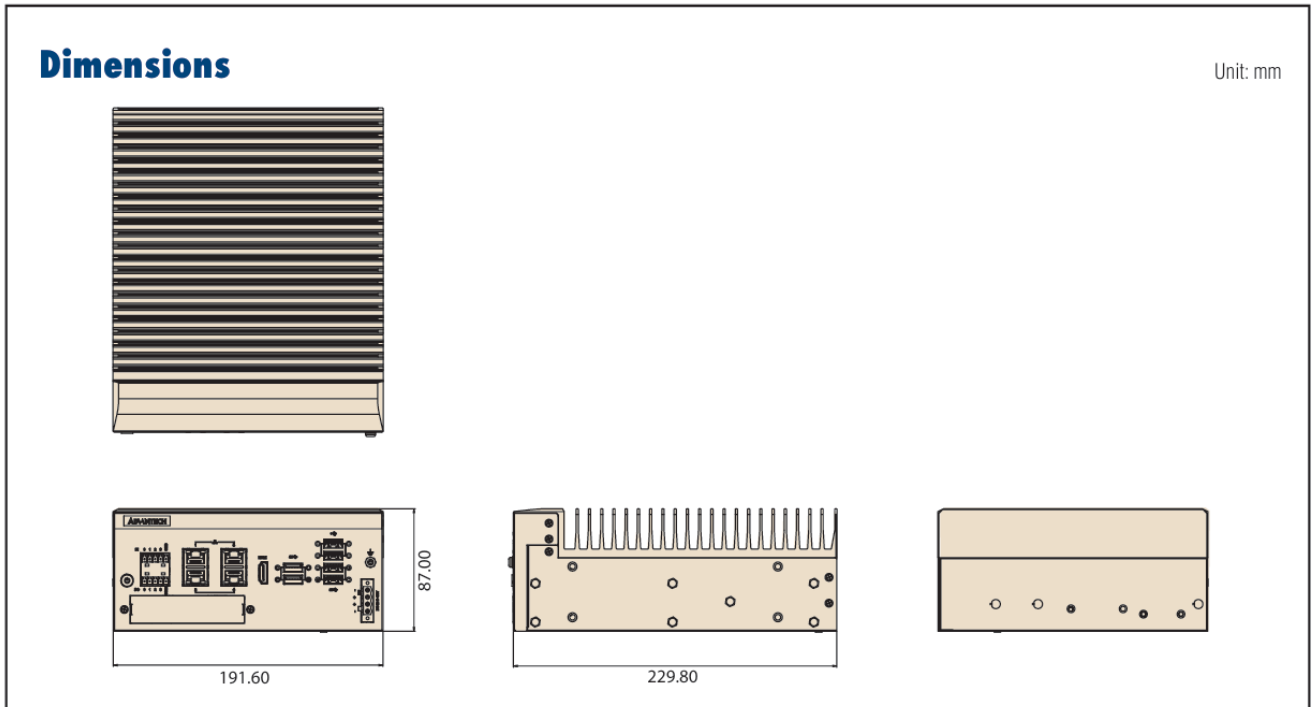
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Specification

General	
Dimensions (D x W x H)	Core Module 192 x 230 x 87mm Plus MIC -75M10: 192x230x111mm
Weight	4.5kg
Certification	CE/FCC Class A, According to EN 55032/55035
Vibration	MIL-STD-810G, Method 514.7, Category 4
Shock	MIL-STD-810G, Method 516.7, Procedure I

Dimension



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Environment Compliance

Operating Temperature	-10°C to 60°C with 0.7 m/s Airflow (MaxN Mode)
Storage Temperature	-20°C to 80°C
Humidity	95% @40°C, Non-Condensing
Operating Vibration	3Grms @5 ~ 500Hz, Random, 1hr/axis
Operating Shock	10G/11ms

Environmental performance may vary according to the integration method or final integration scenario.

Deliverables

- | | |
|---|--|
| 1 | NVIDIA® Jetson AGX Orin™ 32G Fanless AI Box PC |
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Ordering Information

Model Name	Description	Unit
VES-CNV06	NVIDIA® Jetson AGX Orin™ 32G Fanless AI Box PC	1

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