

Blue Line Jetson Orin IGPU-1100



Highlights

Jetson Orin IGPU-1100, an innovative industrial computer with High AI computing performance for GPU-accelerated processing & Ideal for edge AI smart city applications



- Fanless AI edge embedded box PC
- Up to 8-core NVIDIA Arm Cortex A78AE v8.2 64-bit CPU
- Up to 1024-core Ampere GPU w/32 Tensor Cores
- Up to 16GB RAM
- Supports one 15W GbE PoE for camera
- Wide operating temperature from -25°C to +50°C
- IP40 (option for IP42)



BLUE LINE
IT for Demanding Environments

- has more than 30 years experience
- delivers reliable IT solutions for demanding environments
- builds compact and high performance solutions
- focuses on long duration, 24/7-operation, and ruggedness
- is ISO 9001:2015-certified
- is known for providing the best assistance and services in all phases.

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Specifications

Model Type

AI Box-pc

Form Factor

Ultra Compact

Construction

Aluminium

Cooling

Fanless

Environment

Operating Temperature	-20°C to +50°C
Humidity	10% to 95%, non-condensing
Vibration Endurance	3 Grms with M.2 (5 to 500Hz, X, Y, Z directions)

Certification

CE, FCC Class A

Processor

Model 1 (Jetson Orin Nano)	6-core Arm Cortex-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3 12-core NVIDIA Ampere architecture GPU with 16 Tensor Cores
Model 2 (Jetson Orin Nano)	6-core Arm Cortex-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3 1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores
Model 3 (Jetson Orin NX)	6-core Arm Cortex-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3 1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores
Model 4 (Jetson Orin NX)	8-core NVIDIA Arm Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3 1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores

Chipset

SoC

RAM

Model 1	4GB 64-bit LPDDR5 onboard
Model 2	8GB 128-bit LPDDR5 onboard
Model 3	8GB 128-bit LPDDR5 onboard
Model 4	16GB 128-bit LPDDR5 onboard

Storage

1 x M.2 key M 2280 with PCIe x4 NVMe SSD slot

Input / Output

Front I/O	
Model 1 & 2	1 x HDMI 1.4 with 4K2K supported 1 x 10/100/1000 Mbps Ethernet (via Jetson Orin Nano)
Model 2 & 3	1 x HDMI 2.1 with 4K2K supported 1 x 10/100/1000 Mbps ethernet (via Jetson Orin NX)
Model 1, 2, 3 & 4	1 x 10/100/1000 Mbps PoE (Intel I210-IT; max. up to 15W) 1 x USB 3.2 Gen2, 1 x USB 2.0 Type A 1 x Micro USB (for image Jetpack flash only) 1 x Recovery switch 1 x Reset button 1 x Power button 1 x 12V DC-Jack power input connector 1 x Grounding screw
Rear I/O	2 x SMA-type antenna connector* *Require WIFI/BT or 4G / 5G module

Expansion

- 1 x Full-size MiniPCI express card slot (USB + PCI express signal)
- 1 x SIM slot

Management Software

Watchdog Timer Built-in Orin NX



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Operating System

Linux Ubuntu 20.04 or later w/ Nvidia JetPack supported

Power Consumption

Model 1	10W
Model 2	15W
Model 3	20W
Model 4	25W

Dimension and Weight

	H 34.6 x W 148.6 x D 129.8mm
Net weight	1kg (standard configuration)
Gross weight	1.6kg (standard configuration)

Accessories Optional

- Wall mount kit
- DIN-rail kit
- VESA mount kit
- IP42 waterproof cover kit
- 4G/LTE module
- Wi-Fi / BT module
- AC to DC 12V/60W adapter + power core

Warranty and After Sales Support

Standard 1 year (option for 3 years)

