

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)

