



OmniWise Blanet AI Box ONX 16GB

Overview

Utilizing the NVIDIA Jetson Orin NX Module, the OmniWise AI Box offers an optimal solution for managing embedded IoT applications. Tailored for tasks like video analytics, robotics, and natural language processing, the OmniWise AI Box is adept at handling diverse applications. With a capacity to drive up to 100 TOPS, it delivers unparalleled AI performance and power efficiency, enhancing the capabilities of your projects significantly.



- 4 x USB 3.2 Gen1(5G) type A
- 1 x RJ-45 GbE port
- 40 pin (1× UART, 2× SPI, 2×I2C, 1×I2S, 6× GPIO)
- Wide input voltage range from 9V to 24V DC
- Operating Temperature 0°C to +70°C
- Fanless Design

SPECIFICATIONS

Jetson Module	Jetson Orin NX 16GB	AI Performance	100 TOPS
GPU	1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores	CPU	8-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3
Memory	16GB 128-bit LPDDR5	Dimensions	120mm(L) x 92mm(W) x 90mm(H)
MISC / IO Connector	1x UART, 2x SPI 2x I2C, 1x I2S, 6x GPIOs	USB	1x USB 2.0 Micro-B for recovery 4 x USB 3.2 Gen 1 (5G) Type A
DL Accelerator	2x NVDLA v2.0	Power Configuration	10W - 25W
Display Output	1x HDMI 2.0	Camera Inputs	1x MIPI CSI-2 15 Pin
Networking	1x 10/100/1000 Base-T RJ45	Wireless	1x M.2 E-Key - 2230
Storage	1x NVME M.2 M-Key SSD - 2280	Input Power	9V-24V DC Input
Operating Temperature	0°C to +70°C	Weight	875g (Including Antenna)
Video Encode	1x 4K60 (H.265) 3x 4K30 (H.265) 6x 1080p60 (H.265) 12x 1080p30 (H.265)	Video Decode	1x 8K30 (H.265) 2x 4K60 (H.265) 4x 4K30 (H.265) 9x 1080p60 (H.265) 18x 1080p30 (H.265)

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Number	Name	Description
1	Heatsink	Passive Heatsink
2	Case	120mm(L) x 92mm(W) x 90mm(H) - 875g (Including Antenna)
3	HDMI Port	HDMI (3840 x 2160 at 60Hz)
4 - 5	USB Port	4x USB3.2 Gen1 (5G) type A
6	ETHERNET Port	GbE RJ-45
7	DC Port	Voltage Range 9V - 24V
8	Operating Temperature	0°C to +70°C
9	Multi - I / O Port	40-pin (1x UART, 2x SPI, 2x I2C, 1x I2S, 6x GPIO)
10	Micro USB Port	USB 2.0 Micro-B
11	Force Recovery Button	Button for Recovery Mode
12	Power Button	Button for Power
13	CSI Port	2 Lane MIPI CSI-2, 15 pin FPC 1mm Pitch Connector
14	Antenna Port	Antenna Port