



# 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

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