OmniWise
Sirius Active
AI Box ONX 8GB

Overview

Efficient AI Processing for Edge Applications

Sirius AI Box NX 8GB is designed for projects requiring advanced AI and machine learning capabilities with a focus on power efficiency. Perfect for compact and portable devices, this module excels in applications such as intelligent video analytics, autonomous robots, and smart sensors, where maintaining low power consumption is critical. Its balanced processing power and energy efficiency make it an ideal choice for edge AI solutions that need to operate seamlessly in constrained environments without sacrificing performance.

- 2x USB 3.0 Ports (Type-A)
- 1x USB OTG (Micro)
- 1x 10/100/1000 Base-T RJ45
- 1x HDMI 2.0
- 1x 3.3V UART, 1x I2C bus, 2x SPI bus, 4x GPIO
- Wide input voltage range from 9V to 36V DC
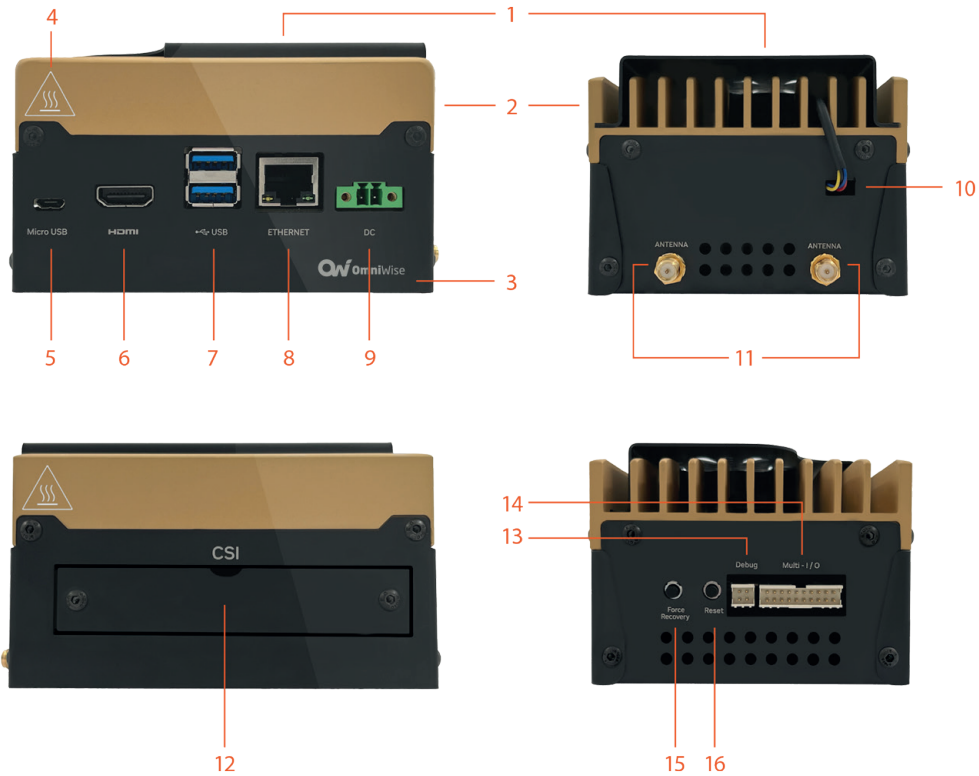- Operating Temperature -25°C ~ +85°C

SPECIFICATIONS

Jetson Module	Jetson Orin NX 8GB	**AI Performance**	70 TOPS (INT8)
GPU	1024-core NVIDIA Ampere architecture GPU with 32 tensor cores	**CPU**	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU
Memory	8GB 128-bit LPDDR5	**Dimensions**	112mm(L) x 90mm(W) x 67mm(H)
MISC / IO Connector	1x 3.3V UART, 1x I2C bus 2x SPI bus, 4x GPIO	**USB**	2x USB 3.0 Ports (Type-A) 1x USB OTG (Micro)
DL Accelerator	1x NVDLA v2.0	**Power Configuration**	10W - 20W
Display Output	1x HDMI 2.0	**Camera Inputs**	2x 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-36V DC Input
Operating Temperature	-25°C to +85°C	**Weight**	882g (Including Antenna)
Video Encode	1x 4K60 | 3x 4K30 | 6x 1080p60 12x 1080p30 (H.265) H.264, AV1	**Video Decode**	1x 8K30 | 2x 4K60 | 4x 4K30 9x 1080p60 | 18x 1080p30 (H.265) H.264, VP9, AV1

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Number	Name	Description
1	Fan	Active Cooling Airflow
2	Heatsink	Active Heatsink
3	Case	112mm(L) x 90mm(W) x 67mm(H) - 882g (Including Antenna)
4	Operating Temperature	-25°C to +85°C
5	Micro USB Port	USB 2.0 Micro-B
6	HDMI Port	HDMI (3840 x 2160 at 60Hz)
7	USB Port	2x USB 3.0 Ports (Type-A)
8	ETHERNET Port	GbE RJ-45
9	DC Port	Voltage Range 9V - 36V
10	Fan Connector	Fan Connector
11	Antenna Port	Antenna Port
12	CSI Port	2 Lane MIPI CSI-2, 15 pin FPC 1mm Pitch Connector
13	Debug Connector	1x UART for Debug
14	Multi - I / O Connector	1x 3.3V UART, 1x I2C bus, 2x SPI bus, 4x GPIO
15	Force Recovery Button	Button for Recovery Mode
16	Reset Button	System Reset Button