OmniWise
Sirius AI Box ONX 16GB

Overview

Unleash Maximum AI Performance at the Edge

For projects demanding higher computational power and the ability to process complex AI models in real time, Sirius AI Box NX 16GB module offers the ultimate solution. With double the memory, this module is tailored for intensive AI workloads, such as large-scale robotics, multi-camera systems, and sophisticated industrial automation. The increased memory capacity enables the handling of more data and larger models, providing a significant performance boost for applications that require top-tier AI processing at the edge, ensuring unparalleled speed and efficiency in the most demanding scenarios.
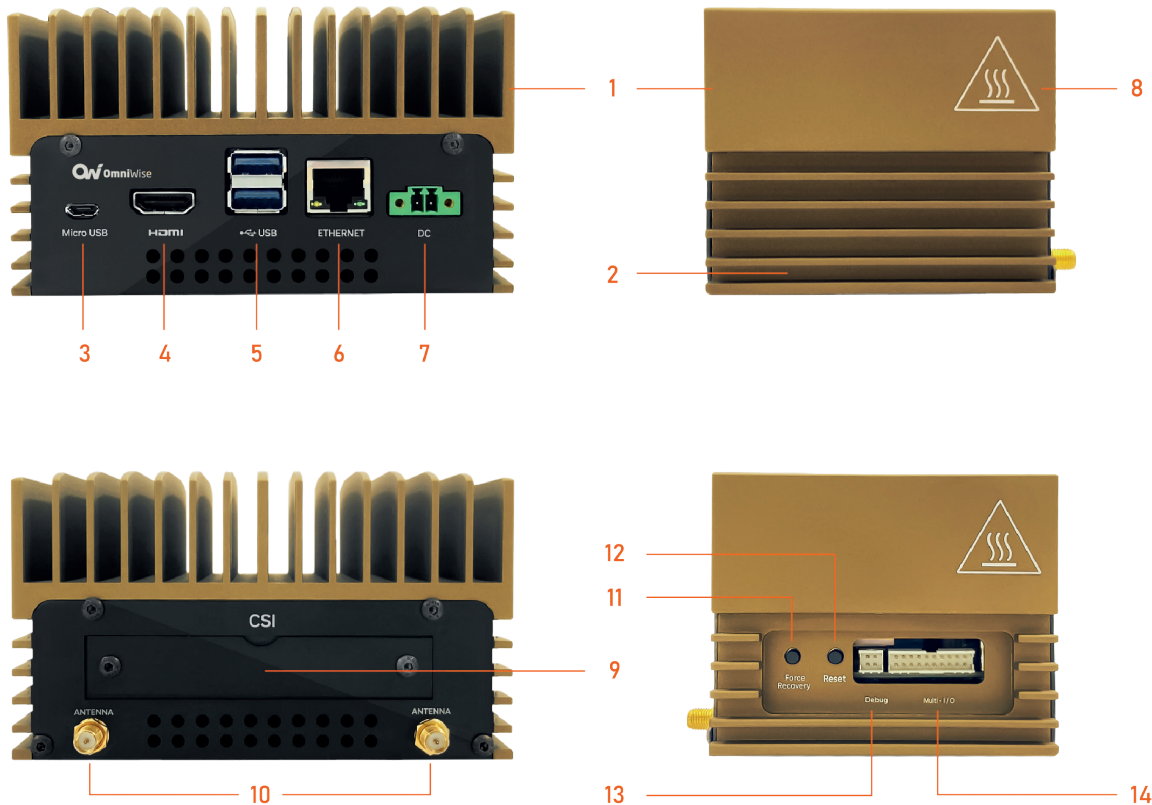
• 2x USB 3.0 Ports (Type-A)
• 1x USB OTG (Micro)
• 1x 10/100/1000 Base-T RJ45
• 1x HDMI 2.0
• 1x 3.3V UART, 1x I2C bus, 2x SPI bus, 4x GPIO
• Wide input voltage range from 9V to 36V DC
• Operating Temperature -25°C ~ +85°C
• Fanless Design

SPECIFICATIONS

Jetson Module	Jetson Orin NX 16GB	**AI Performance**	100 TOPS (INT8)
GPU	1024-core NVIDIA Ampere architecture GPU with 32 tensor cores	**CPU**	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU
Memory	16GB 128-bit LPDDR5	**Dimensions**	124mm(L) x 86mm(W) x 74mm(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	2x NVDLA v2.0	**Power Configuration**	10W - 25W
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**	909g (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	Heatsink	Passive Heatsink
2	Case	124mm(L) x 86mm(W) x 74mm(H) - 909g (Including Antenna)
3	Micro USB Port	USB 2.0 Micro-B
4	HDMI Port	HDMI (3840 x 2160 at 60Hz)
5	USB Port	2x USB 3.0 Ports (Type-A)
6	ETHERNET Port	1x 10/100/1000 Base-T RJ45
7	DC Port	Voltage Range 9V - 36V
8	Operating Temperature	-25°C to +85°C
9	CSI Port	2 Lane MIPI CSI-2, 15 pin FPC 1mm Pitch Connector
10	Antenna Port	Antenna Port
11	Force Recovery Button	Button for Recovery Mode
12	Reset Button	System Reset Button
13	Debug Connector	1x UART for Debug
14	Multi - I / O Connector	1x 3.3V UART, 1x I2C bus, 2x SPI bus, 4x GPIO

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