

OmniWise Sirius AI Box ON 8GB



Overview

Enhanced AI Performance for Demanding Edge Solutions

For developers who need more processing power and memory to tackle complex AI workloads, the Sirius AI Box 8GB module provides a significant upgrade. With double the memory of the 4 GB variant, this module is well-suited for more demanding applications such as advanced robotics, multi-camera video analytics, and edge AI inferencing. The expanded memory capacity allows for handling larger AI models and processing more data in real time, making the Sirius AI Box ON 8GB the go-to solution for projects that require enhanced AI performance without compromising on efficiency or form factor.

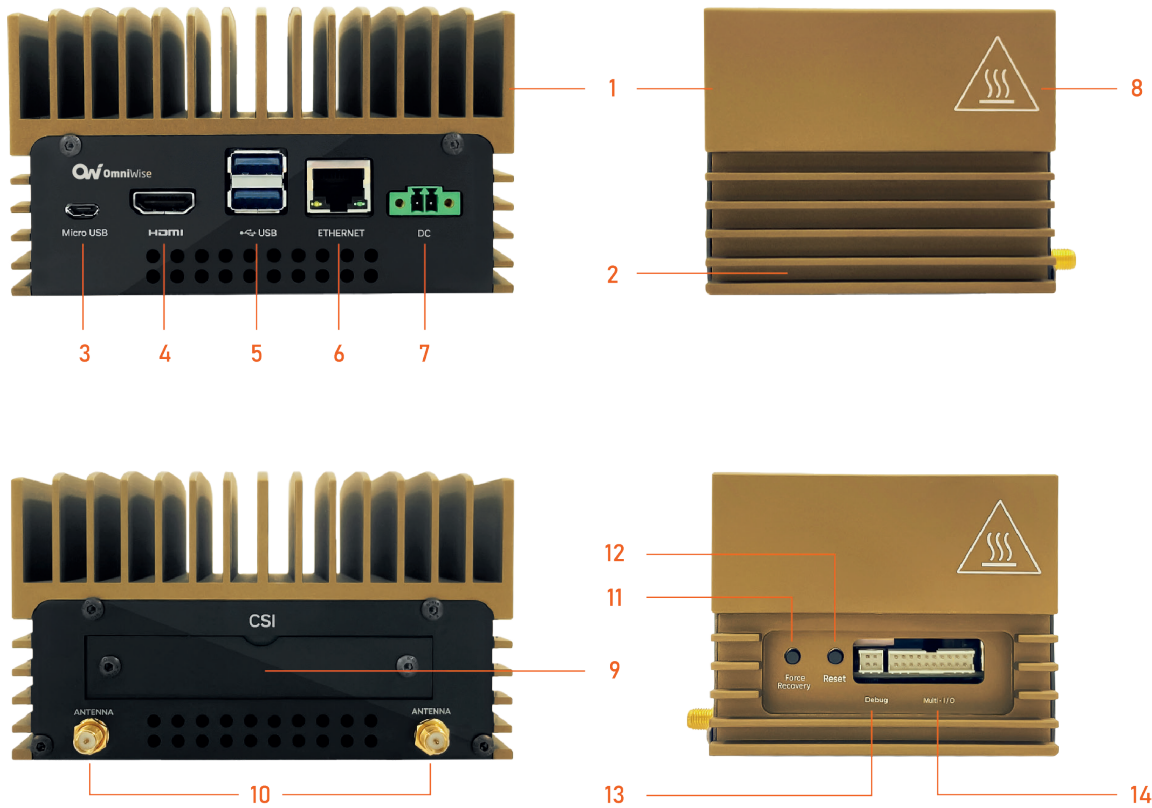
- 2x USB 3.0 Ports (Type-A)
- 1x USB OTG (Micro)
- 1x 10/100/1000 Base-T RJ45
- 1x HDMI 2.0
- 1x 3.3V UART, 1x I2C bus, 2x SPI bus, 4x GPIO
- Wide input voltage range from 9V to 36V DC
- Operating Temperature -25°C ~ +85°C
- Fanless Design



SPECIFICATIONS

Jetson Module	Jetson Orin Nano 8GB	AI Performance	40 TOPs
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 68 GB/s	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	3x USB 3.2 Gen2 (10 Gbps) 3x USB 2.0
DL Accelerator		Power Configuration	7W - 15W
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	1080p30 supported by 1-2 CPU cores	Video Decode	1x 4K60 2x 4K30 5x 1080p60 11x 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