

OmniWise Sirius AI Box ON 4GB



Overview

Compact AI Power for Essential Edge Applications

Sirius AI Box ON 4GB module is designed to bring AI processing to the most compact and power-efficient edge devices. With a focus on delivering essential AI capabilities, this module is perfect for applications like entry-level robotics, basic smart cameras, and IoT devices that require a balance between performance and energy efficiency. The 4GB of memory ensures smooth operation for foundational AI tasks, making it an ideal choice for developers looking to integrate AI into smaller, cost-sensitive projects without compromising on quality.

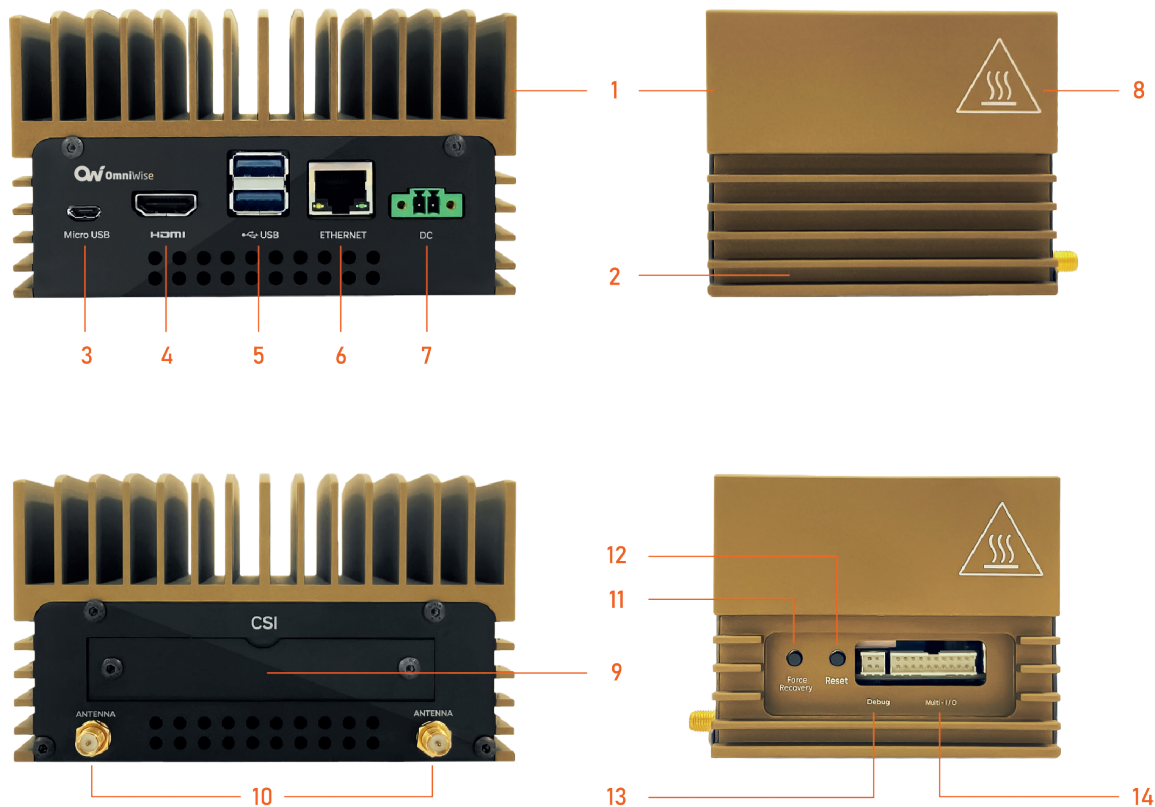
- 2x USB 3.0 Ports (Type-A)
- 1x USB OTG (Micro)
- 1x 10/100/1000 Base-T RJ45
- 1x HDMI 2.0
- 1x 3.3V UART, 1x I2C bus, 2x SPI bus, 4x GPIO
- Wide input voltage range from 9V to 36V DC
- Operating Temperature -25°C ~ +85°C
- Fanless Design



SPECIFICATIONS

| | | | |
|------------------------------|--|----------------------------|--|
| Jetson Module | Jetson Orin Nano 4GB | AI Performance | 20 TOPs |
| GPU | 512-core NVIDIA Ampere architecture GPU with 16 Tensor Cores | CPU | 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU |
| Memory | 4GB 64-bit LPDDR5 34 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 - 10W |
| 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 |

OmniWise Sirius AI Box ON 4GB



| 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 |