OmniWise

Pulsar Active AI Box 64GB



Overview

Ultimate AI Powerhouse for Mission-Critical Applications

When your projects require the absolute pinnacle of AI performance and memory capacity, Pulsar Active AI Box 64 GB module stands ready to meet the challenge. With twice the memory of the 32 GB variant, this module is built for the most demanding, mission-critical applications, such as autonomous vehicles, edge AI servers, and real-time analytics in complex environments. The expanded memory allows for the execution of the largest and most complex AI models, ensuring your system can handle extensive data processing with unmatched speed and precision, making it the ideal choice for the highest-stakes AI deployments.

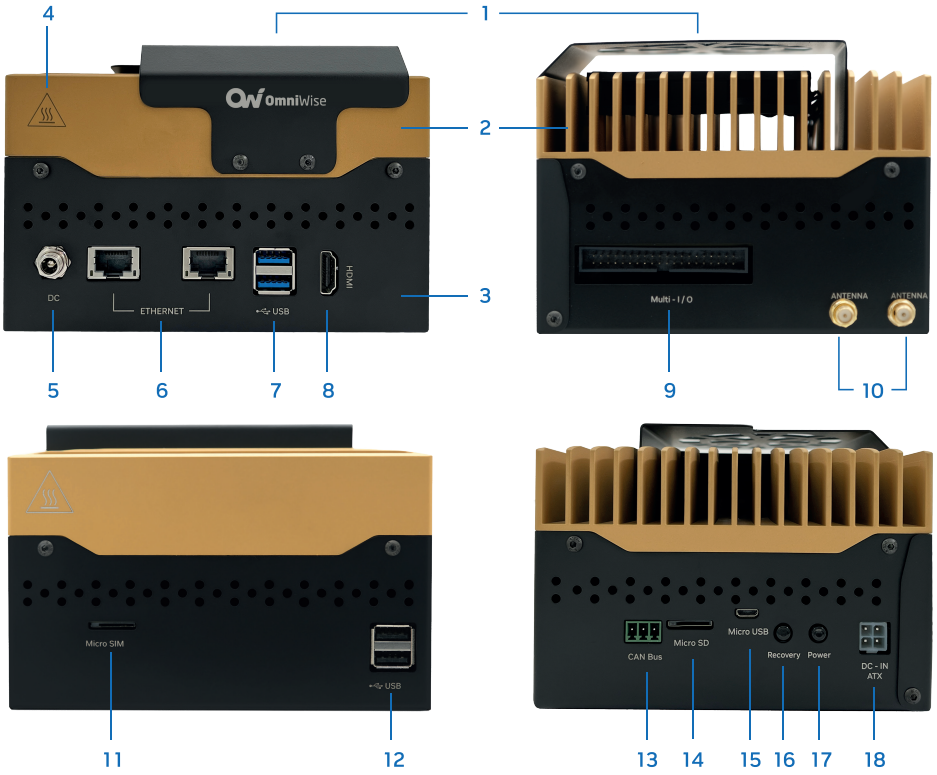
- Support for NVIDIA Jetson AGX Orin and AGX Orin Industrial Module
- 2x USB 2.0 Type-A - 2x USB 3.2 Type-A
- 1x USB 2.0 Micro-B for recovery
- 1x GbE RJ-45 - 1x 10G RJ-45
- 1x HDMI 2.0 3840x2160 at 60Hz
- 1x UART, 1x SPI, 1x CAN, 2x I2C, 1x I2S, 5x GPIOs
- Active Heatsink
- Operating Temperature -25°C ~ +85°C
- Wide input voltage range from 9V to 36V DC
- 1x CAN bus with transceiver
- 1x Micro SIM socket

SPECIFICATIONS

Jetson Module	Jetson AGX Orin (32GB, 64GB or Industrial)	**AI Performance**	275 TOPS (INT8)
GPU	NVIDIA Ampere architecture with 2048 NVIDIA CUDA® cores and 64 tensor cores	**CPU**	12-core Arm Cortex-A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3
Memory	64GB 256-bit LPDDR5 204.8GB/s	**Dimensions**	150 mm(L) x 137,5 mm(W) x 102,5 mm(H)
MISC / IO Connector	1x Micro SIM socket, 1x CAN bus with transceiver 40-pin (1x UART, 1x SPI, 1x CAN, 2x I2C, 1x I2S, 5x GPIOs)	**USB**	1x USB 2.0 Micro-B for recovery 2x USB 2.0 Type-A 2x USB 3.2 Type-A
DL Accelerator	2x NVDLA v2.0	**Power Configuration**	15W - 60W
Display Output	1x HDMI output	**Wireless**	1x M.2 E-Key
Networking	1x GbE RJ-45 - 1x 10G RJ-45	**Input Power**	12V-54V DC Input
Operating Temperature	-25°C to +85°C	**Weight**	2080 g (Including Antenna)
Video Encode	2x 4K60 | 4x 4K30 | 8x 1080p60 16x 1080p30 (H.265) H.264, AV1	**Video Decode**	1x 8K30 | 3x 4K60 | 7x 4K30 |11x 1080p60 22x 1080p30 (H.265) H.264, VP9, AV1
Storage	1x micro-SD card slot 1x M.2 M Key SSD (or AVerMedia capture card: CN311-H, CN312SW, CN312MW		

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Number	Name	Description
1	Fan	Active Cooling Airflow
2	Heatsink	Active Heatsink
3	Case	150mm(L) x 137,5mm(W) x 102,5mm(H) - 2080 g (Including Antenna)
4	Operating Temperature	-25°C to +85°C
5	DC Port	Voltage Range 12V - 54V
6	ETHERNET Port	1x 1 GbE RJ-45 ,1x 10 GbE RJ-45
7	USB Port	2x USB 3.0 Ports (Type-A)
8	HDMI Port	HDMI 2.0 (3840 x 2160 at 60Hz)
9	Multi - I / O Connector	40-pin (1x UART, 1x SPI, 1x CAN, 2x I2C, 1x I2S, 5x GPIOs)
10	Antenna Port	Antenna Port
11	Micro SIM	Micro SIM
12	USB Port	2x USB 2.0 Ports (Type-A)
13	CAN Bus	1x CAN Bus with Transceiver
14	Micro SD	Micro SD
15	Micro USB Port	USB 2.0 Micro-B
16	Recovery Button	Button for Recovery Mode
17	Power Button	Button for Power
18	DC - IN ATX	4-Pin 9V - 54V