

EVO ORIN 规格书

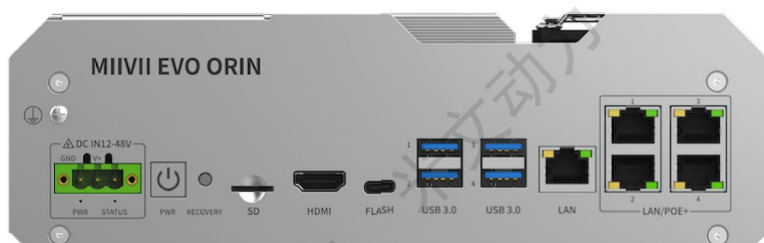
简介Brief

米文EVO ORIN 是一款专为工业场景设计的嵌入式边缘计算设备，可提供200/275 Tops计算能力。设备采取高效能的主动散热设计，可以在苛刻的工业环境中稳定运行，坚固的嵌入式设计，可以达到很高的抗振等级。产品提供了丰富的I/O接口，可以满足多种传感器的接入需求，同时可提供高效的传感器时钟同步功能，在内部预留了丰富的扩展接口，提供更多的无线通讯以及存储扩展方案。

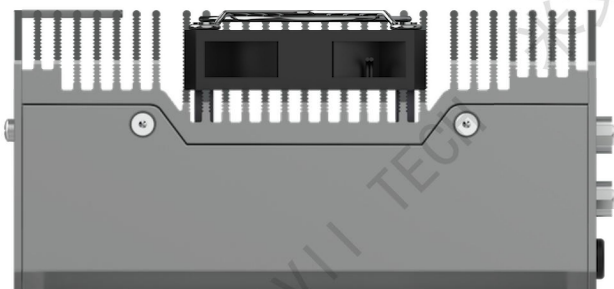


产品外观

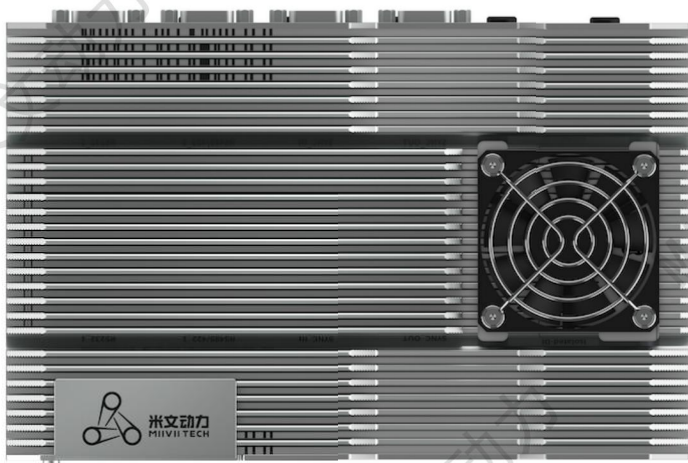
正视图



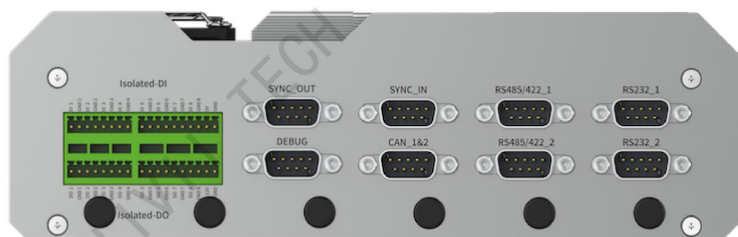
侧视图



俯视图



后视图



特性

高效主动式风扇散热

IP5X防护等级

5路独立千兆网口

高抗震等级

-20°C-60°C工作温度

丰富的接口与可扩展性

产品规格

处理器模组

	Specification	
Processor	NVIDIA Jetson AGX Orin 32GB	NVIDIA Jetson AGX Orin 64GB
AI Performance	200 TOPS	275 TOPS
CPU	8 Core ARM® Cortex®-A78	12 Core ARM® Cortex®-A78
GPU	NVIDIA Ampere 1792-CUDA® Core	NVIDIA Ampere 2048-CUDA® Core
Memory	32 GB 64 bit LPDDR4 204 GB/s	64 GB 64 bit LPDDR4 204 GB/s
DL Accelerator	2×NVDLA 2.0 Engines	
Storage	64GB eMMC 5.1	
Video Encode	H.265 1x 4K60, 3x4k30, 6x 1080p60, 12x 1080p30	H.265 2x 4K60, 4x4k30, 8x 1080p60, 16x 1080p30
	H.264 1x 4K60, 2x 4K30, 5x 1080p60, 11x 1080p30	H.264 2x 4K60, 4x 4K30, 7x 1080p60, 15x 1080p30
Video Decode	H.265 1x 8K30, 2x 4K60, 4x4k30, 9x 1080p60, 18x 1080p30	H.265 1x 8K30, 3x 4K60, 6x4k30, 12x 1080p60, 24x 1080p30
	H.264 1x 4K60, 2x 4K30, 5x 1080p60, 11x 1080p30	H.264 1x 4K60, 3x 4K30, 7x 1080p60, 14x 1080p30

接口

	Interface	Quantity	Note
Function KEY	Power Button	1	
	Recovery Button	1	
Network/Camera	Ethernet	5×Gigabit Port	
Video output	HDMI	1×HDMI 2.0 TYPE A	5V 1A
USB	USB	4×USB 3.0 TYPE A 1×USB 2.0 TYPE C	USB 5V, 1A USB 2.0 Flashing Port
I/O	UART	3×RS232 2×RS485/422 1×Debug	DB9 Terminal RS232_sync FOR GPS Time Synchronize

	SYNC I/O	1×SYNC_IN 1×PPS_OUT 2×SYNC_OUT	1 x pps in with TTL, UART with RS232 1 x pps out with TTL, UART with RS232 2 x Sync out withTTL
	CAN	2×CAN FD	Two CAN in One DB9 Terminal With CAN chip, terminal resistor 120
	GPIO	8xIsolated DI 8xIsolated DO Output Voltage 1x DC5V、1xDC12V	DI 5-48V DC DO 5-48V DC
User Expansion	TF Socket	1xTF Slot	MicroSD card supported
	M.2	1×M.2 M Key 1×M.2 B Key	M.2 M Key2280 SIZE NVME SSD M.2 B Key For 5G
	Mini PCIe	2	For WIFI or 4G expansion
	Nano SIM Socket	4	For Nano SIM Card

供电

Power Supply	Spec
Input Type	DC
Input Voltage	Wide input 12-48V
Typical consumption	40W / 60W

结构

Mechanical	Spec
Dimensions (W×H×D)	226mm×70mm×144.5mm (I/O ports and mounting holes excluded)
Weight	2.3Kg

环境

Environmental	Spec
Operating Temperature	-20°C-60°C
Storage Temperature	-40°C-80°C
Storage Humidity	10%-90% non-condensing
Vibration	3 Grms,10Hz~500Hz,1h/axis
Protection	IP5X
ESD	Touch 6KV, Air 8KV

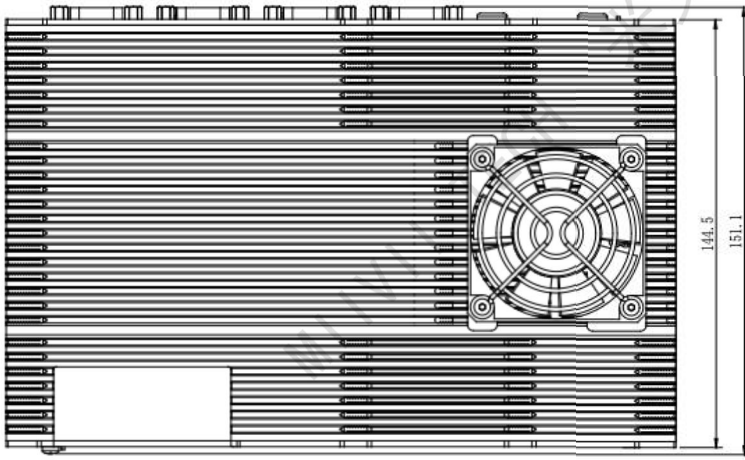
认证

Certification	Status
CCC, CE, FCC, RoHS	Processing

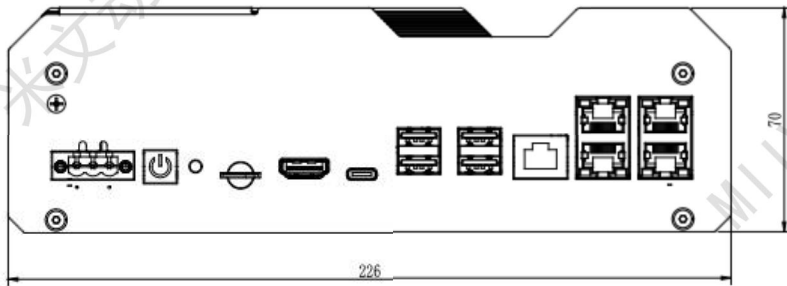
尺寸及安装

EVO ORIN主体尺寸及安装孔位尺寸如图:(Unit:mm)

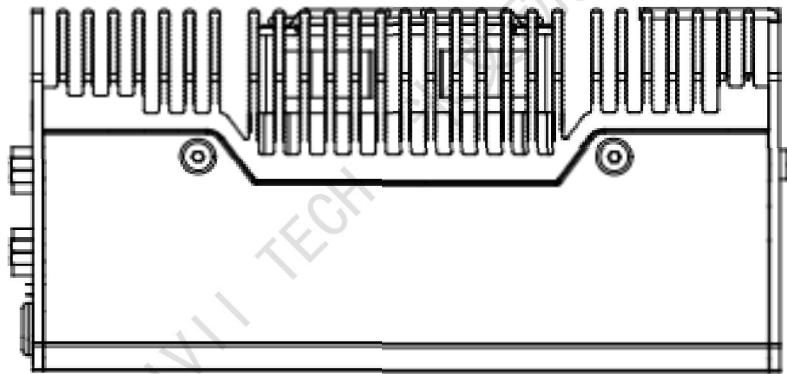
俯视图



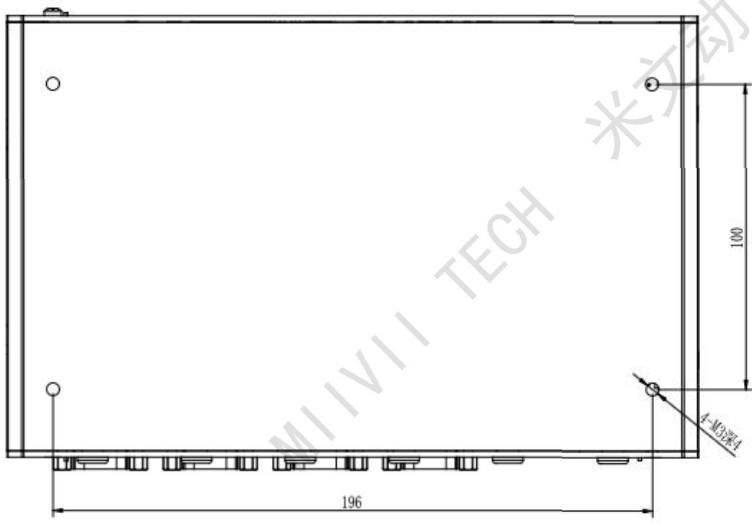
主视图



左视图



安装孔位图1



安装孔位图2

