

EVO TX2 GMSL2 Spec

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简介 Brief

米文EVO TX2 GMSL2是一款专为工业场景设计的嵌入式边缘计算设备。它搭载的NVIDIA® Jetson TX2能够以15W的低功耗提供高达1.3TFlops (FP16)的算力。EVO TX2 GMSL2采取高效能的被动散热设计，可以在苛刻的工业环境中稳定正常工作。同时鉴于其坚固的嵌入式设计，可以达到很高的抗振等级。EVO TX2 GMSL2提供了丰富的I/O功能，可以满足多种专用传感器的接入需求,特别是6路GMSL接口，可以满足6路摄像机的接入。同时EVO TX2 GMSL2还在内部设计了多种扩展接口，提供更多通讯以及存储扩展方案。

MiiVii EVO TX2 GMSL2 is an embedded edge AI platform designed for industrial application. It Supports NVIDIA® Jetson TX2, featuring over 1.3TFlops(FP16) for real-time inference. Thanks to MiiVii's passive cooling design, EVO TX2 GMSL2 is capable of effectively dissipating the heat generated by the GPU, and guarantees system operation of up to 60°C ambient temperature.MiiVii EVO TX2 GMSL2 equipped with various I/O interface,especially 6*GMSL port. In addition, EVO TX2 GMSL2 also features massive expansion port to enhance accessibility.



特性 Features

- 高效直触式被动散热

High performance passive cooling system

- IP5X防护等级满足工业场景需求

IP5X Protection

- 高抗振等级

Vibration resistance according to IEC 60068

- -20°C-60°C工作温度

-20°C-60°C Operating temperature

- 6路GMSL接口

6×GMSL Port

- 丰富的接口与可扩展性

Various I/O interface and expansion

产品规格 Specifications

处理器模组 Processor

	Specification
Processor	NVIDIA Jetson TX2
AI Performance	Up to 1.3 TFLOPS (FP16)
CPU	Dual-Core NVIDIA Denver 2 64-Bit CPU Quad-Core ARM® Cortex®-A57 MPCore
GPU	256-core NVIDIA Pascal™ GPU architecture with 256 NVIDIA CUDA cores
Memory	8GB 128-bit LPDDR4 Memory 1866 MHz - 59.7 GB/s
Storage	32GB eMMC 5.1
Video Encode	1x 4Kp60 3x 4Kp30 4x 1080p60 8x 1080p30 (H.265) 1x 4Kp60 3x 4Kp30 7x 1080p60 14x 1080p30 (H.264)
Video Decode	2x 4Kp60 4x 4Kp30 7x 1080p60 14x 1080p30 (H.265 & H.264)

接口 I/O

	Interface	Quantity	Note
Function KEY	Recovery Button	1	

Network	Ethernet	2×Gigabit Port	2 independent Gigabit Ethernet port RJ45
Camera	Camera	6×GMSL FAKRA Z TYPE	10V Transmission distance up to 15 meters GMSL2,compatible with GMSL1
Video output	HDMI	1×HDMI 2.0 TYPE A	5V 1A
USB	USB	3×USB 3.0 TYPE A 1×USB 2.0 TYPE A	USB 5V, 1A USB 2.0 Flashing Port
I/O	UART	2×RS232 1×RS485	DB9 Terminal
	CAN	2	Two CAN in One DB9 Terminal With CAN chip, terminal resistor 120
	GPIO	2	DB9 Terminal
	SYNC IO	1	DB9 Terminal
User Expansion	TF Socket	1×TF Slot	MicroSD card supported
	M.2	1×M.2 M Key	2242 SIZE NVME SSD
	Mini PCIe	1	For 4G or WiFi expansion
	Nano SIM Socket	1	For Nano SIM Card

供电 Power Supply

Power Supply	Spec
Input Type	DC
Input Voltage	Wide input 12V-30V DC
Maximum Consumption	15W

结构 Mechanical

Mechanical	Spec
Dimensions (W×H×D)	178mm×70mm×110mm (I/O ports and mounting holes excluded)
Weight	1.2Kg

环境 Environmental

Environmental	Spec
Operating Temperature	-20°C-60°C, 0.2~0.3m/s air flow ¹
Storage Temperature	-25°C-80°C
Storage Humidity	10%-90% non-condensing

Vibration	5gn,10Hz~150Hz,3 Axis ²
Protection	IP5X
ESD	Touch 6KV, Air 8KV
TVS	500V

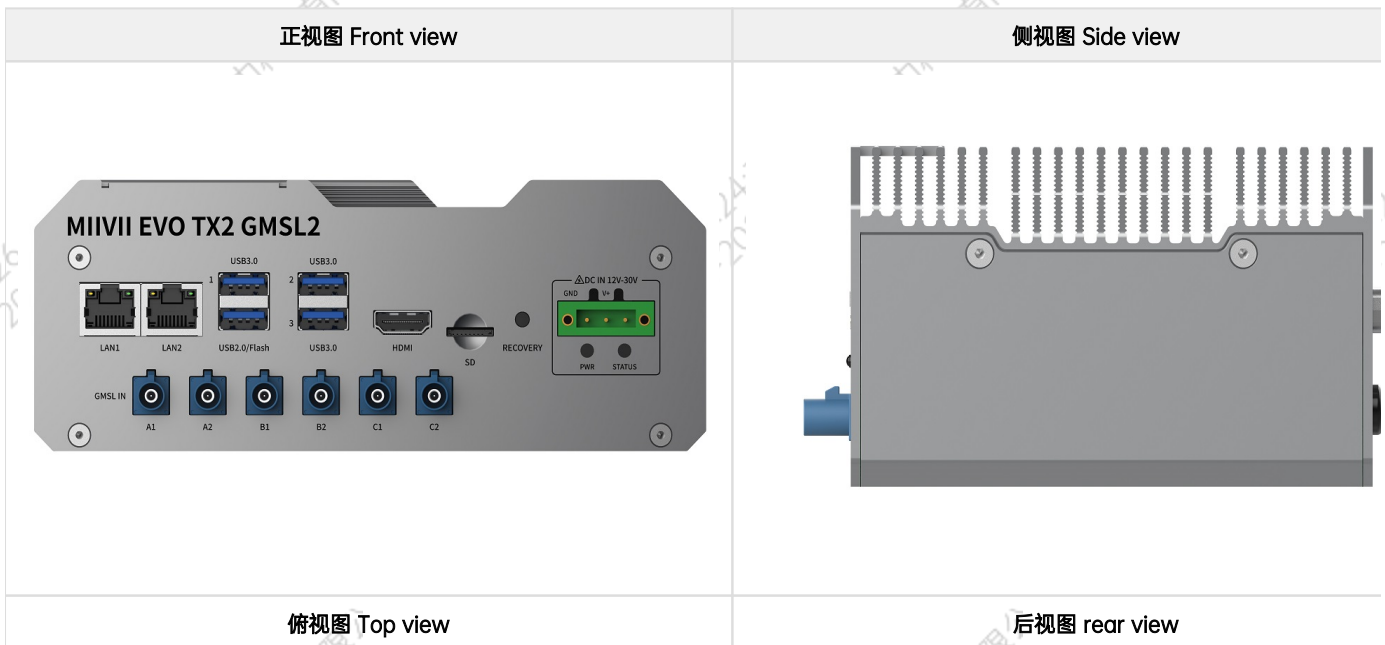
认证 Certification

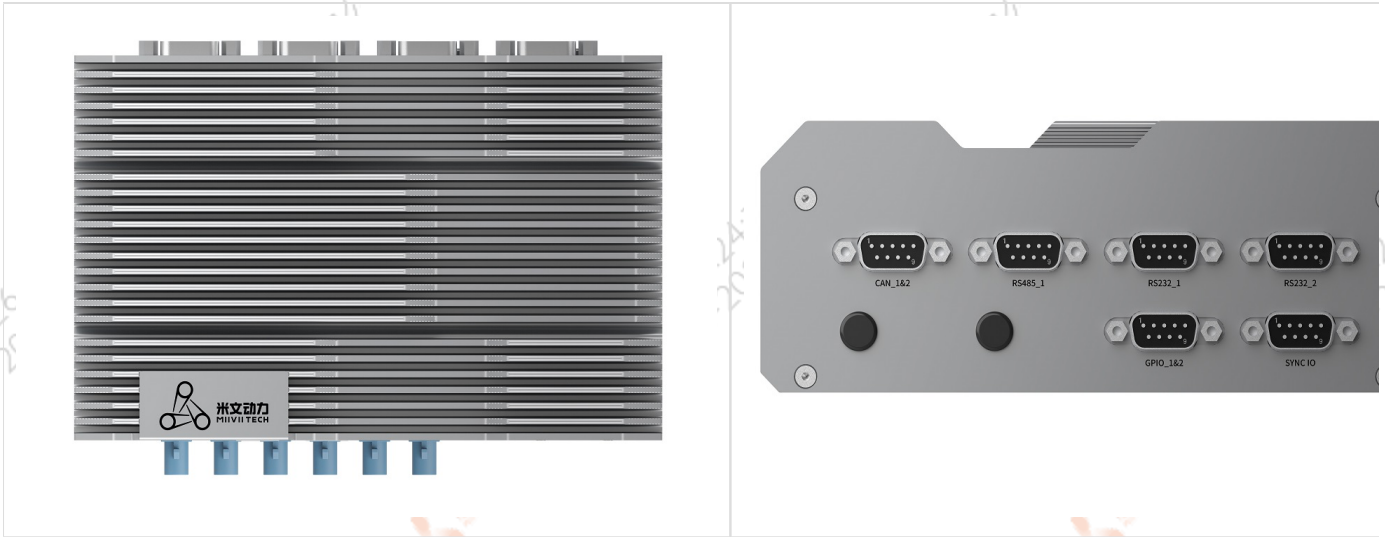
Certification	Status
CCC, CE, FCC, RoHS, SRRC	Processing

[1] According to GB/T 2423-2008 60°C以上运行时，运行频率降低 Working frequency is subject to change after temperature reaches 60°C

[2] According to GB/T 2423.10-2008

产品外观 Appearance

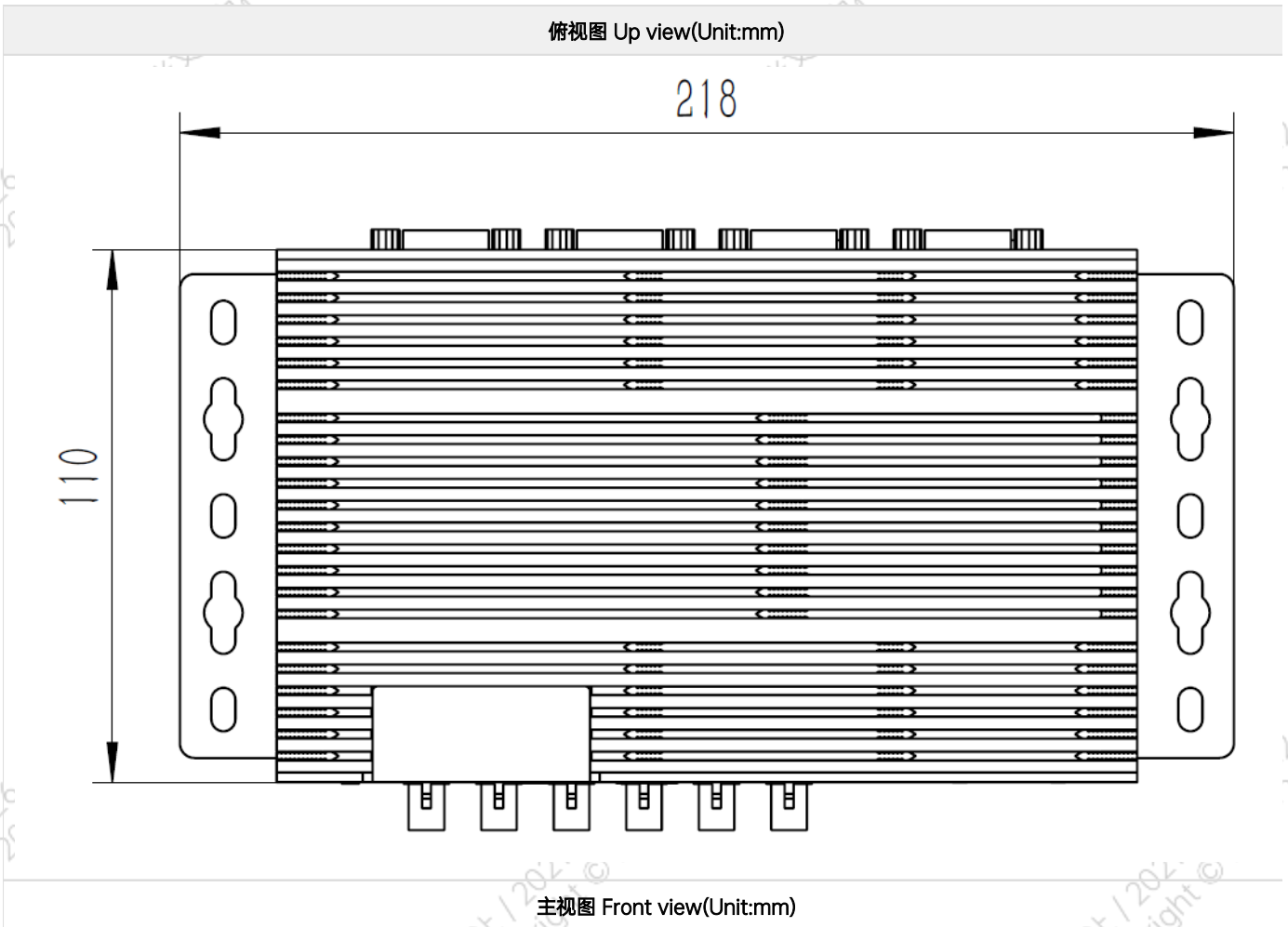


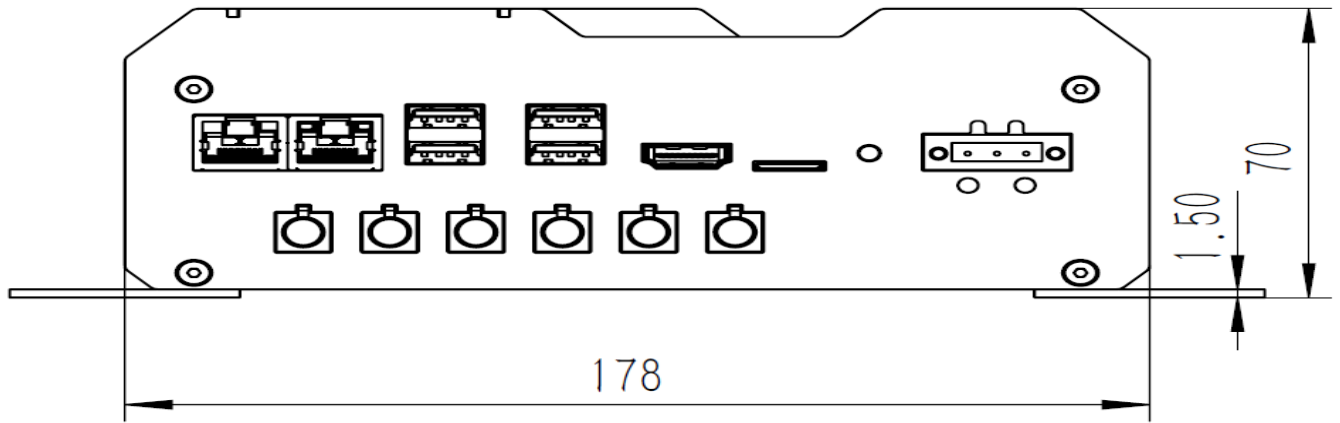


尺寸及安装 Install Dimension

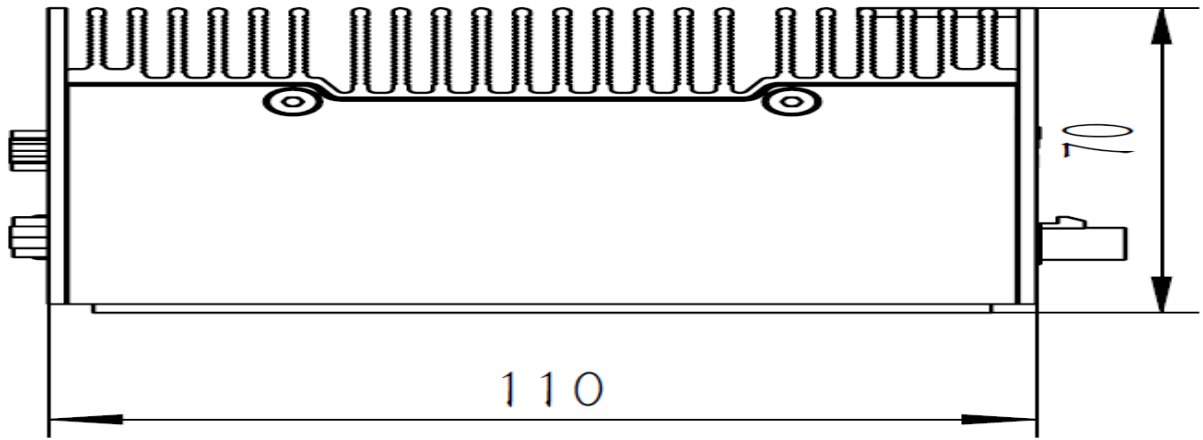
EVO TX2 GMSL2主体尺寸及安装孔位尺寸如图:

Dimensions and mounting hole position as below:

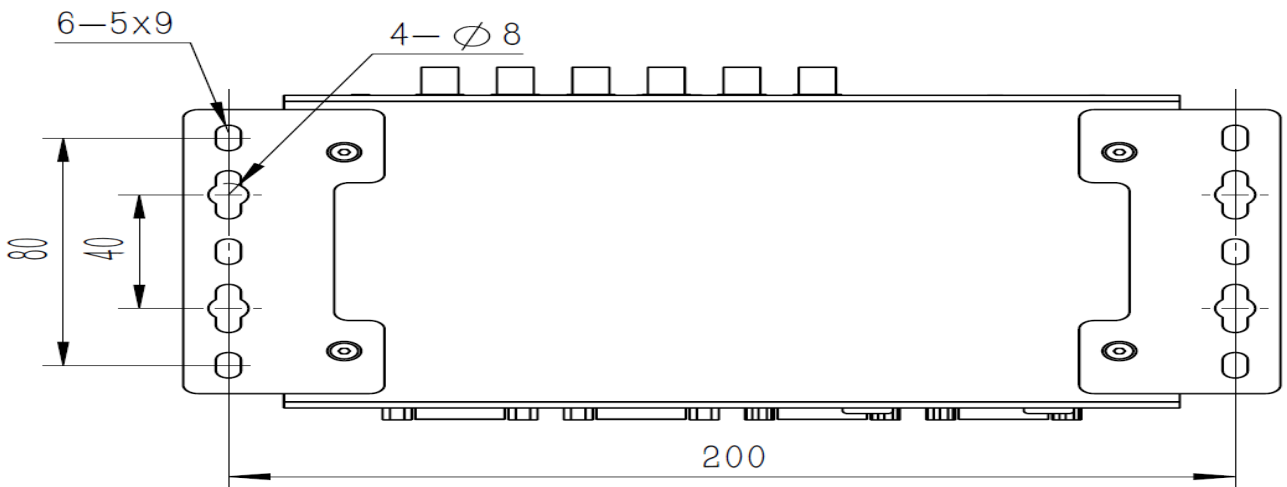




左视图 Left view(Unit:mm)



安装孔位图1 Mounting Hole(Unit:mm)



安装孔位图2 Mounting Hole(Unit:mm)

