

# Lite Nano Spec

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## 简介 Brief

米文Lite Nano是一款专为智能图像分析设计的嵌入式人工智能计算机，能够为众多终端设备赋予0.5 TFLOPS(FP16)的计算力。Lite Nano提供高效的被动散热设计，能够在宽温的工作条件下稳定运行。同时Lite Nano可以满足抗振防雷等工业标准，为整体方案的安全稳定保驾护航。为了满足场景的需求，Lite Nano特别设计了多路PoE+接口，方便现场布线以及供电传感器的应用。

MiiVii Lite Nano is an embedded AI supercomputer. It delivers massive computing capabilities and essential features to terminal devices. High performance passive cooling design enables Lite Nano working in wide temperature range. With shock resistance and TVS, ESD protection, Lite Nano is suitable for industrial usage. In addition, Lite Nano is equipped with multiple PoE+ port which make it easier for field deployment.



## 特性 Features

- 高效被动散热设计

*High performance passive cooling*

- -20°C-60°C工作温度

*-20°C-60°C Operating temperature*

- IP5X防护等级

*IP5X Protection*

- 工业级防雷，防静电

*Industrial level lightning and static protection*

- 8路百兆PoE+接口，带有交换机功能。支持IEEE802.3at协议

8×PoE+ 100M Port, IEEE802.3at protocol

## 产品规格 Specifications

### 处理器模组 Processor

	Specification
Processor	NVIDIA Jetson Nano
AI Performance	Up to 472GFLOPS
CPU	Four Core ARM® Cortex®-A57 MPCore
GPU	NVIDIA Maxwell™ Structure 128-Core NVIDIA CUDA® Core
Memory	4 GB 64 bit LPDDR4 1600 MHz – 25.6 GB/s
Storage	16GB eMMC 5.1
Video Encode	1x 4Kp30 2x1080p60 4x1080p30 4x720p60 9x720p30 (H.265 & H.264)
Video Decode	1x 4K60 2x 4K30 4x 1080p60 8x 1080p30 9x 720p60 (H.265 & H.264)

### 接口 I/O

	Interface	Quantity	Note
Function Key	Recovery Button	1	
Network/Camera	Ethernet	1×Gigabit Port 8×PoE+ 100M Port	PoE+ IEEE 802.3at protocol single port maximum output 30W
Video output	HDMI	1×HDMI 2.0 TYPE A	5V 1A
USB	USB	1×USB 3.0 TYPE A 1×USB 2.0 TYPE A	USB 5V, 1A Lower USB as a Flashing Port
I/O	UART	1xRS232 1xRS485	DB9 Terminal
User Expansion	M.2	1×M.2 M Key	2280 SIZE NVME SSD
	Non-standard Mini PCIe	1	No PCIe signal Only support module with USB 2.0 signal
	SIM Socket	1	For Nano-SIM Card

## 供电 Power Supply

Power Supply	Spec
Input Type	DC
Input Voltage	52V DC
Typical consumption	30W

## 结构 Mechanical

Mechanical	Spec
Dimensions (W×H×D)	178mm×55mm×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 <sup>1</sup>
Storage Temperature	-25°C-80°C
Storage Humidity	10%-90% non-condensing
Vibration	5gn,10Hz~150Hz,3 Axis <sup>2</sup>
Protection	IP5X
ESD	Touch 6KV, Air 8KV <sup>3</sup>
TVS	1KV <sup>4</sup>
Lighting	Power 6KV <sup>5</sup>

## 认证 Certification

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

[1] According to GB/T 2423-2008

[2] According to GB/T 2423.10-2008

[3] According to IEC 61000-4-2, Level 3

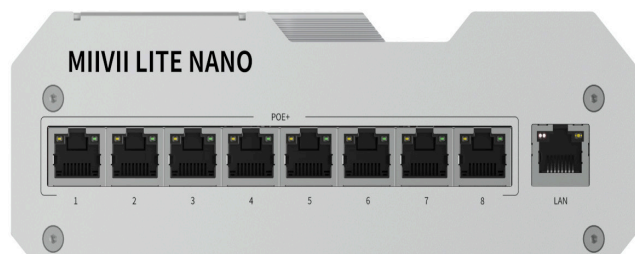
[4] According to IEC 61000-4-5, Level 3

[5] According to GB/T3482-2008

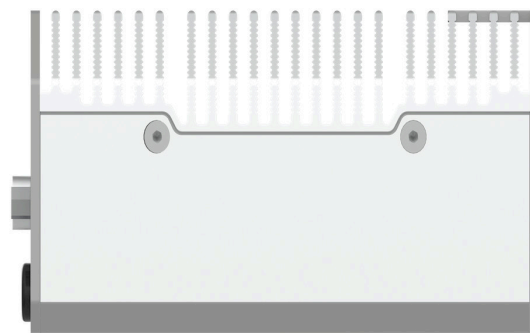
## 产品外观 Appearance

正视图 Front view

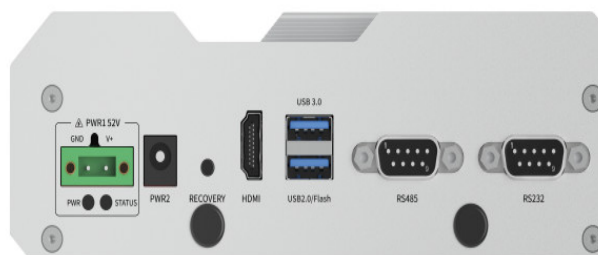
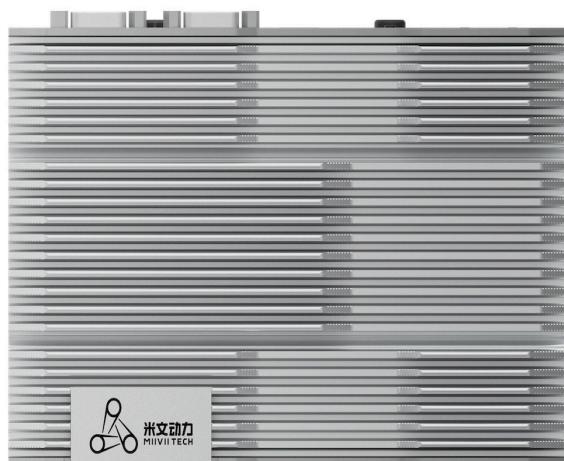
侧视图 Side view



俯视图 Top view



后视图 Rear view

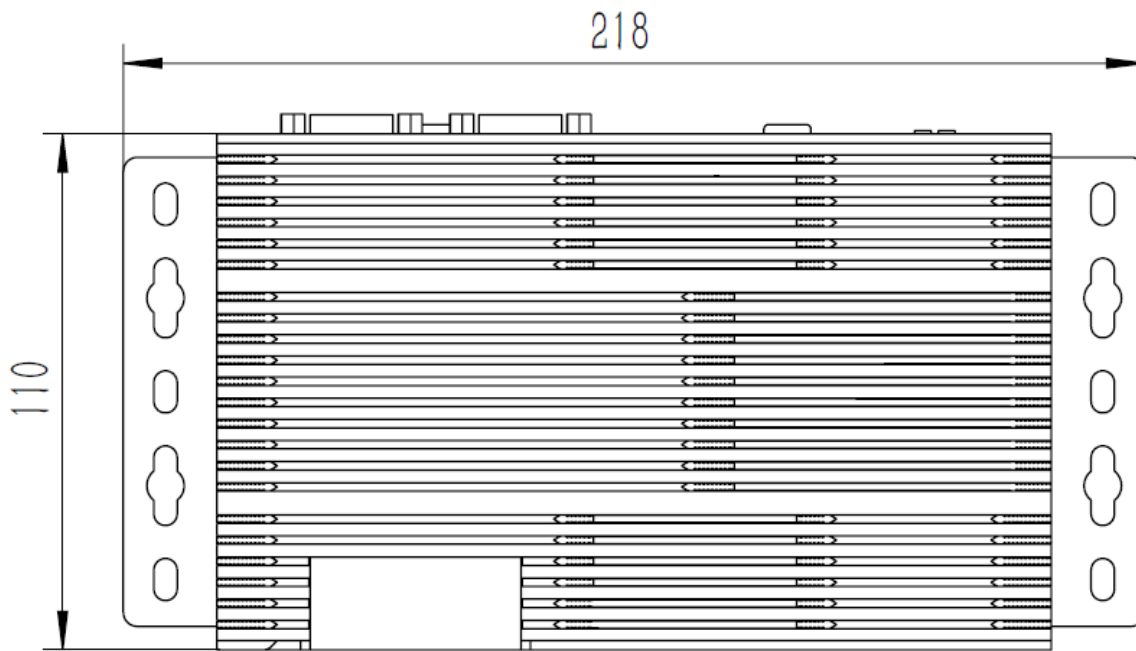


## 尺寸及安装 Install Dimension

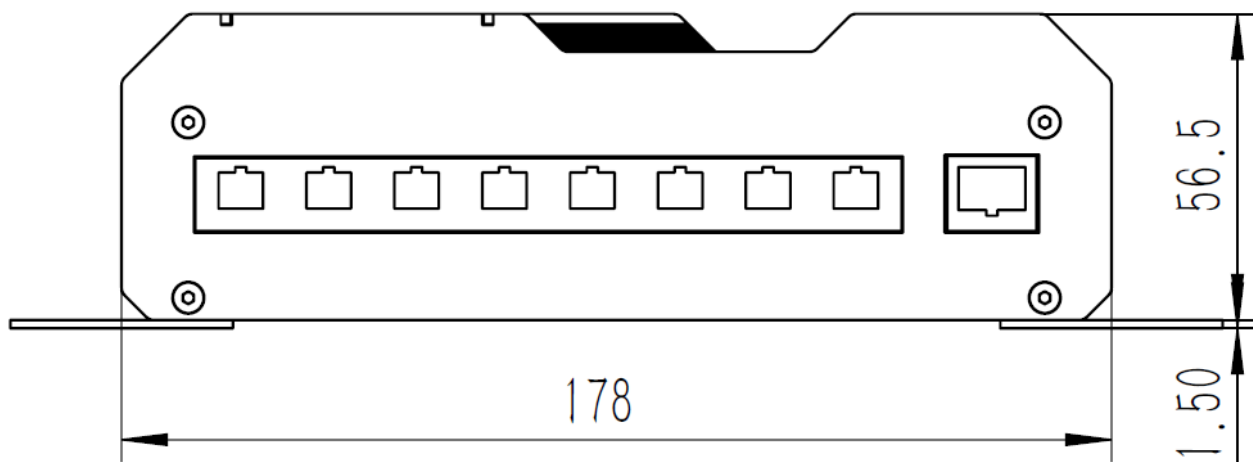
Lite Nano主体尺寸及安装孔位尺寸如图:

Dimensions and mounting hole position as below:

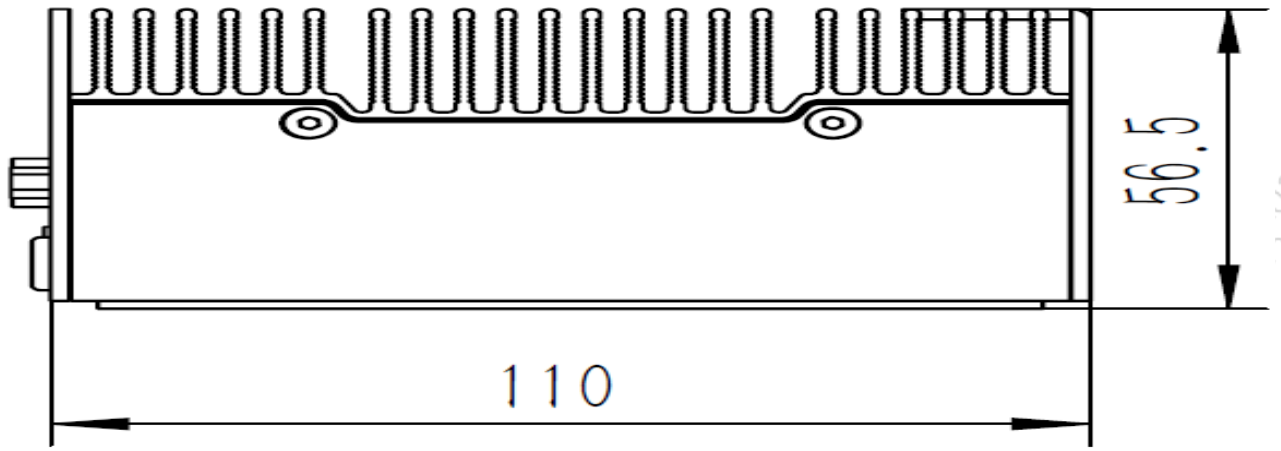
俯视图 Up view(Unit:mm)



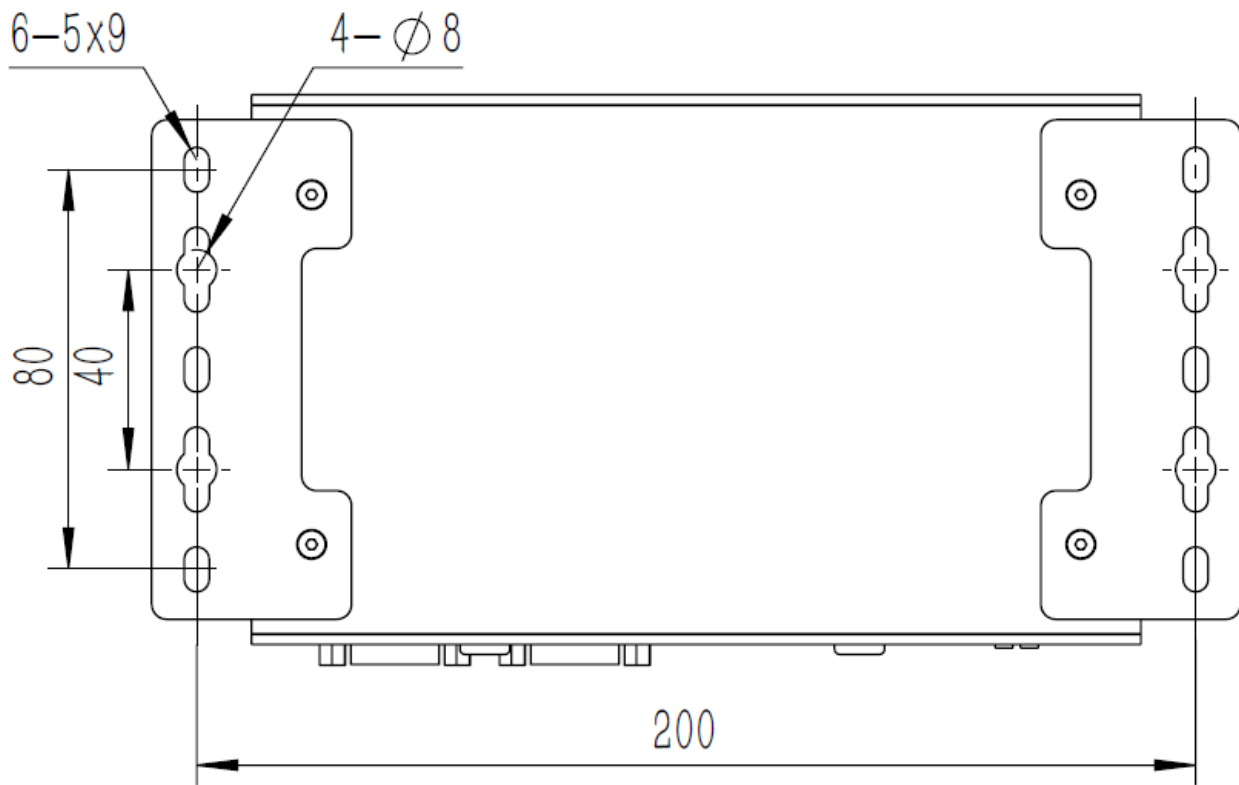
主视图 Front view(Unit:mm)



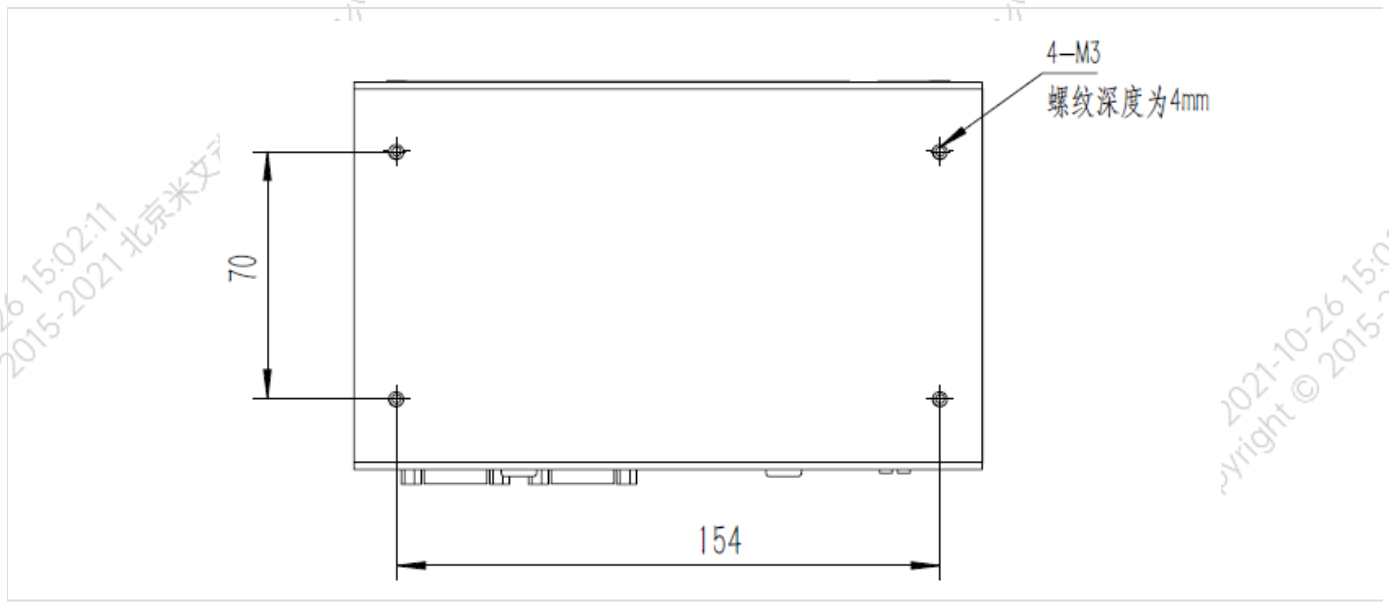
左视图 Left view(Unit:mm)



安装孔位图1 Mounting Hole(Unit:mm)



安装孔位图2 Mounting Hole(Unit:mm)



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