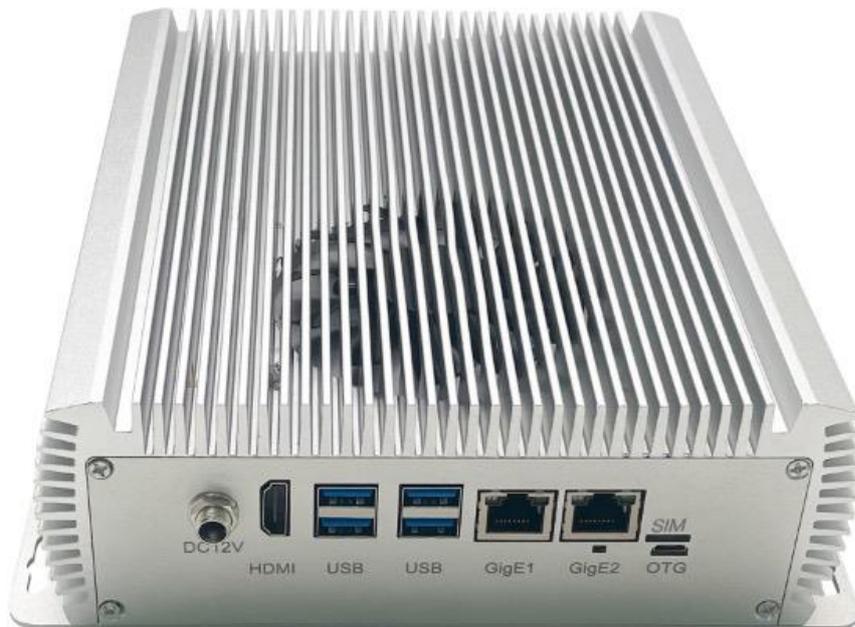


# 11F2E6 Datasheet



## Datasheet Updated History

Version	Date	Description of Change	Hardware Version
V1.0	2023-4-12	Create a document	V1.0



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Electronic components and circuits are very sensitive to electrostatic discharge, although the company will do anti-static protection design on the main interface of the board when designing circuit board products, but it is difficult to do anti-static safety protection for all components and circuits. Therefore, it is recommended to follow esd safety precautions when handling any circuit board component. Esd protection measures include but are not limited to the following:

- During transportation or storage, place the card in an ESD bag and do not take it out until installation.
- Release the static electricity before touching the board. Wear a discharge grounding wrist strap.
- Operate the circuit board only in electrostatic discharge safety area.
- Avoid moving circuit boards in carpeted areas.
- Avoid direct contact with electronic components on the board by edge contact.

## Precautions

- Before using the product, please read this manual carefully and keep it properly for future reference
- Please pay attention to and follow all warnings and guidelines marked on the product
- Please use the matching power adapter to ensure the stability of current and voltage
- Please use this product in a cool, dry and clean place
- Do not use this product in the environment of alternating cold and heat to avoid condensation and damage to internal components
- Do not splash any liquid on the product. It is forbidden to use organic solvent or corrosive liquid to clean the product
- Do not use this product in dusty and messy environment. If it is not used for a long time, please pack the product
- Do not use it in an environment with excessive vibration. Any falling or knocking may damage the lines and components
- Do not plug and unplug the core board and peripheral modules when the power is on
- Do not repair or disassemble the product by yourself. If the product fails, contact the company for repair in time
- Do not modify or use unauthorized accessories by yourself, and the resulting damage will not be covered by

## Warranty

### Limited Product Warranty

- Warranty period -Bottom plate and core plate: 3 years (non-human damage)
- Contact information Contacts: RMA

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- Mailing instructions: Please contact the sale staff of the company in advance, then arrange technicians to verify and eliminate the errors caused by misoperation as soon as possible. After verification, please mail the equipment to the company. Please attach a list of items and the reason for failure when mailing for easy verification, so as to avoid loss and damage in the process of express delivery.

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# Chapter 1 Introduction

## 1.1 Product introduction

The 11F2E6 has built-in NVIDIA® Orin NX/Nano series core modules. The whole device adopts wide temperature model and adopts high reliability power supply application scheme. The input power supply has overvoltage and reverse polarity protection functions.

Through the built-in minipice and M.2 can carry hundreds of functional modules to achieve further expansion of system functions, can carry 4G/5G communication module, wifi, Bluetooth module, various specifications of video acquisition/output module, AD acquisition module, multiple serial port module, sound acquisition/output module, multifunctional IO module and so on. Scalable POE gigabit network, compatible with industrial automation and vehicle-road collaboration scenarios.

The system comes with 128GB NVME disks by default. If you need to replace other sizes of hard disks or expand other interface modules, please contact our sales staff in advance.

Compare Jetson Orin NX and Jetson Orin NANO Specifications				
Modules	Orin NX 16GB	Orin NX 8GB	Orin Nano 8GB	Orin Nano 4GB
AI Performance	100 TOPS	70 TOPS	40 TOPS	20 TOPS
GPU	1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores			512-core NVIDIA Ampere architecture GPU with 16 Tensor Cores
GPU	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU2MB L2 + 4MB L3	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU1.5MB L2 + 4MB L3		
Memory	16GB 128-bit LPDDR5 102.4GB/s	8GB 128-bit LPDDR5 102.4GB/s	8GB 128-bit LPDDR5 68 GB/s	4GB 64-bit LPDDR5 34 GB/s
Storage	(Supports external NVMe)			
Video Encode	1x 4K60 (H.265) 3x 4K30 (H.265) 6x 1080p60 (H.265) 12x 1080p30 (H.265)		1080p30 supported by 1-2 CPU cores	

<b>Video Decode</b>	1x 8K30 (H.265)		1x 4K60 (H.265)	
	2x 4K60 (H.265)		2x 4K30 (H.265)	
	4x 4K30 (H.265)		5x 1080p60 (H.265)	
	9x 1080p60 (H.265)		11x 1080p30 (H.265)	
	18x 1080p30 (H.265)			
<b>Networking</b>	1x GbE			
<b>Power</b>	10W - 25W	10W - 20W	7W - 15W	7W - 10W

## 1.2 Product Specifications

Size: 202mm x 206mm x 64.5mm

## 1.3 Order Information

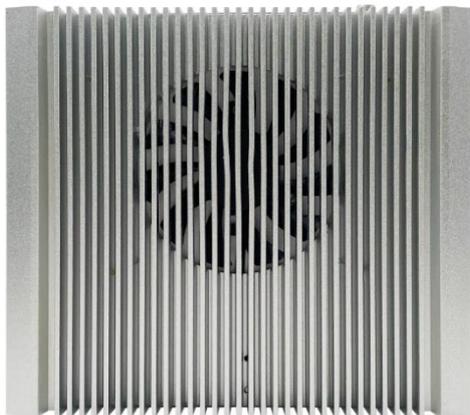
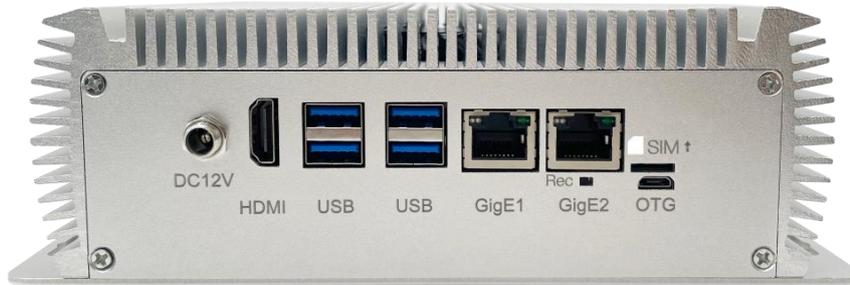
Model	Functional Description
<b>11F1E2</b>	AI industrial computer with NVIDIA Jetson Orin NX/ Orin NANO core module. The POE function is optional.

Taobao Store Address : <https://shop333807435.taobao.com/>

Jingdong Store Address : <https://mall.jd.com/index-11467104.html?from=pc>

Ali International Station address : <https://plink-ai.en.alibaba.com/>

## Chapter2. External interface function and location

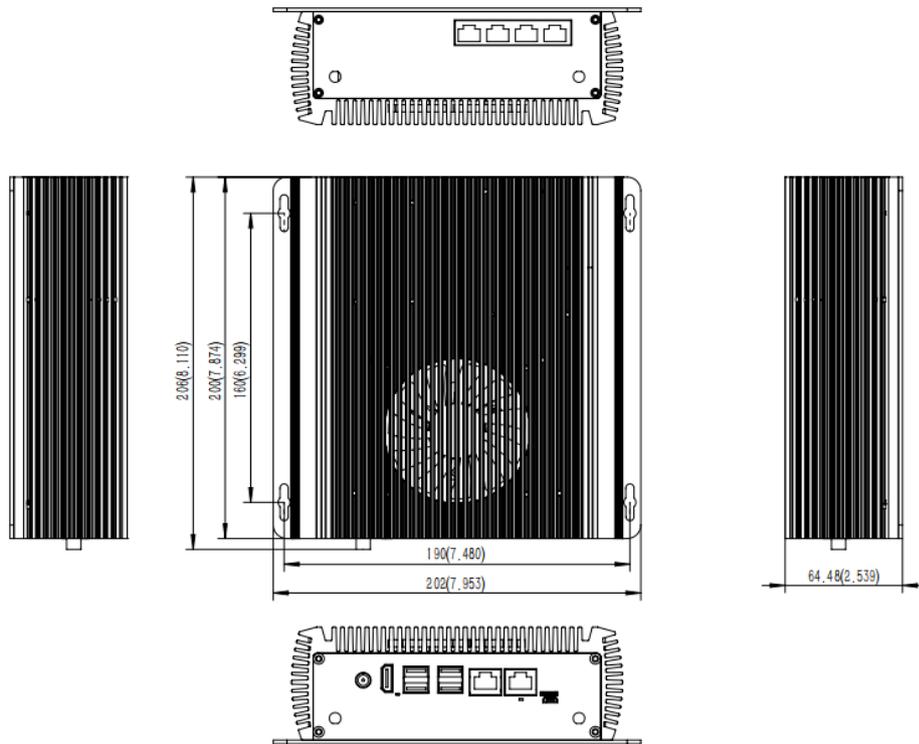


## 2.1 Functional Ports

Name	Description
LED	Carrier board power supply status indicator light
USB1	Dual layer Type A USB 3.0 connector and downward compatible
USB2	Dual layer Type A USB 3.0 connector and downward compatible
HDMI	Type A HDMI display and output port
REC	Recovery button, Press and hold the Recovery button to power on the device to enter the recovery mode
GigE1 GigE2	GigE1 and GigE2 in front are standard 10/100/1000M adaptive RJ45 network ports (expandable and POE powered). (The POE function is not standard)
POE	Four POE network ports (POE function is not standard)
OTG	When equipped with ORIN NX/ORIN NANO module, it is used for system burning and OTG function output.
SIM card	Nano type SIM card connector (It must be used with a 5G module, which is non-standard)
POWER	DC : 12V~24V

## 2.2 Overall structure dimension drawing

Multi PO network version



## Chapter 3 Method of use

### 3.1 Method of use

- Ensure that all external system voltages are turned off
- Install necessary external cables. (For example: display cable connected to HDMI display, power input cable for system power, USB cable connecting keyboard and mouse, camera, MiniPCIe function expansion module...)
- Connect the power cord to the power supply.
- 11F2E6 is automatically powered on by default.

### 3.2 Recovery mode

Jetson core module can work in normal mode and Recovery mode. In Recovery mode, it can update file system, kernel, Boot loader, BCT and other operations

The steps to enter Recovery mode are as follows:

- Power off the system.
- Use a Micro-USB cable to connect the OTG port of the 11F2E6 to the USB port of the Jetson development host.
- Press and hold down the Recovery button (Rec) to power the system. Hold down the Recovery button for more than 3 seconds and release.
- The system enters Recovery mode, at which time subsequent operations can be performed.