

# 11F1E6

## Edge AI Box



### Key Feature

- Jetson™ Orin NX: 157/117 TOPS, 16/8GB LPDDR5
- Jetson™ Orin Nano: 67/34 TOPS, 8/4GB LPDDR5
- Network: 6 × independent Gigabit Ethernet
- Display: 1 × HDMI
- Rich I/O: 6 × RJ45, 4 × USB Type-A, 1 × Nano SIM, 2 × RS232, 1 × RS485, 1 × RS422
- Expansion: Built-in 1 × miniPCIe, 2 × M.2 M 2242, 1 × M.2 B 3050
- Operating Temperature: -25°C ~ +65°C
- Input Voltage: DC 12V ~ 24V
- Pre-installed Ubuntu

### Introduction

The 11F1E6 is a high-performance edge AI computing device powered by NVIDIA Jetson Orin NX/ Orin Nano modules, delivering up to 157 TOPS AI performance for high-bandwidth data acquisition, multi-device control and multi-Ethernet parallel access scenarios.

With industrial-grade rugged design, it supports 6 independent Gigabit ports, RS232/485/422 and flexible expansion for storage, communication modules and I/O cards, enabling customized integration for industrial cameras and sensors.



Website



Intelligent Monitoring



Medical Imaging



Railway and subway monitoring



Mechanical arm operation

## Specifications

| Module         | Jetson Orin NX 16GB                                                                          | Jetson Orin NX 8GB                                          | Jetson Orin Nano 8GB                                                      | Jetson Orin Nano 4GB                                         |
|----------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------|
| AI Performance | 157TOPS                                                                                      | 117TOPS                                                     | 67TOPS                                                                    | 34TOPS                                                       |
| GPU            | 1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores                                |                                                             |                                                                           | 512-core NVIDIA Ampere architecture GPU with 16 Tensor Cores |
| CPU            | 8-core Arm® Cortex®<br>-A78AE v8.2<br>64-bit CPU2MB L2 + 4MB L3                              | 6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3 |                                                                           |                                                              |
| Memory         | 16GB 128-bit LPDDR5<br>102.4GB/s                                                             | 8GB 128-bit LPDDR5<br>102.4GB/s                             | 8GB 128-bit LPDDR5<br>102 GB/s                                            | 4GB 64-bit LPDDR5<br>51 GB/s                                 |
| Storage        | (Support external NVMe)                                                                      |                                                             |                                                                           |                                                              |
| Video Encode   | 1x 4K60 (H.265)、3x 4K30 (H.265)<br>6x 1080p60 (H.265)、12x 1080p30 (H.265)                    |                                                             | 1080p30 supported by 1-2 CPU cores                                        |                                                              |
| Video Decode   | 1x 8K30 (H.265)、2x 4K60 (H.265)<br>4x 4K30 (H.265)、9x 1080p60 (H.265)<br>18x 1080p30 (H.265) |                                                             | 1x 4K60 (H.265)、2x 4K30 (H.265)<br>5x 1080p60 (H.265)、11x 1080p30 (H.265) |                                                              |
| Display        | 1x HDMI2.0                                                                                   |                                                             |                                                                           |                                                              |
| USB            | 4x USB 3.0 Type-A、1x Micro USB(OTG)                                                          |                                                             |                                                                           |                                                              |
| Networking     | 6x RJ45                                                                                      |                                                             |                                                                           |                                                              |
| Button         | 1 x Recovery                                                                                 |                                                             |                                                                           |                                                              |
| Expansion      | 1x miniPCIe、2x M.2 M Key(2242), 1x M.2 B Key(3050)                                           |                                                             |                                                                           |                                                              |
| Other I/O      | 1x Nano SIM                                                                                  |                                                             |                                                                           |                                                              |
| Serial Ports   | 2x RS232、1x RS485、1x RS422                                                                   |                                                             |                                                                           |                                                              |
| Temperature    | -25°C ~ +65°C                                                                                |                                                             |                                                                           |                                                              |
| Dimensions     | 202mm x 150mm x 64.5mm                                                                       |                                                             |                                                                           |                                                              |
| Power          | DC +12V~ +24V                                                                                |                                                             |                                                                           |                                                              |
| Weight         | 1600g                                                                                        |                                                             |                                                                           |                                                              |

## Interfaces

