

11F1E2

Edge AI Box



Key Feature

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

Introduction

The 11F1E2 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 industrial automation, V2X collaboration and robot control.

Built with rugged industrial design, it provides rich isolated I/O for industrial cameras and sensors, plus M.2/miniPCIe expansion for storage, communication and control cards, simplifying system integration and on-site deployment.



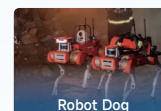
Website



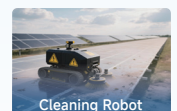
Intelligent Monitoring



Color Sorter



Robot Dog



Cleaning Robot

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® -A78AE v8.2 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 102.4GB/s	8GB 128-bit LPDDR5 102.4GB/s	8GB 128-bit LPDDR5 102 GB/s	4GB 64-bit LPDDR5 51 GB/s
Storage	(Support 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	
Video Decode	1x 8K30 (H.265)、2x 4K60 (H.265) 4x 4K30 (H.265)、9x 1080p60 (H.265) 18x 1080p30 (H.265)		1x 4K60 (H.265)、2x 4K30 (H.265) 5x 1080p60 (H.265)、11x 1080p30 (H.265)	
Display	1x HDMI			
USB	4x USB 3.0 Type-A、1x Micro USB(OTG)			
Networking	2x RJ45			
Button	1 x Recovery			
Expansion	1x miniPCIe、2x M.2 Key M(2242)、1x M.2 B Key(3050)			
Other I/O	1x CAN、4x Opto-Isolated GPIO、1x Nano SIM			
Serial Ports	2x RS232、2x RS485			
Temperature	-25℃ ~ +65℃			
Dimensions	202mm x 150mm x 64.5mm			
Power	DC +12V~ +24V			
Weight	1560g			

Interfaces

