

11D2E2

Edge AI Box



Key Feature

- Jetson™ Orin NX/Orin Nano
- Jetson™ Orin Nano: 67/34 TOPS, 8/4GB LPDDR5
- Display Interface: 1 × HDMI
- Rich I/O: 2 × RJ45, 4 × USB 3.0 Type-A, 1 × Nano SIM, 1 × CAN, 4 × GPIO, 2 × RS232, 2 × RS485
- Expansion: Built-in 1 × miniPCIe, 2 × M.2 M 2242, 1 × M.2 B 3050
- Optional: Supports 2 or 4 GMSL camera modules
- Operating Temperature: -25°C ~ +65°C
- Input Voltage: DC 12V ~ 24V
- Pre-installed Ubuntu

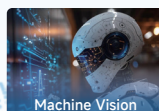
Introduction

The 11D2E2 is a high-performance edge AI computing device powered by NVIDIA Jetson Orin NX/Orin Nano system-on-modules, featuring industrial-grade conduction cooling. It delivers up to 157 TOPS of AI performance for heavy-duty edge AI inference, providing reliable computing support for industrial automation, security surveillance, autonomous machines, smart logistics, autonomous driving and other edge AI scenarios.

The 11D2E2 integrates M.2 and miniPCIe expansion slots for flexible extension of high-capacity storage, 4G/5G/Wi-Fi modules and I/O cards. It features industrial-grade interfaces including RS232, RS485 and CAN for compatibility with various sensors and controllers. Optional 2/4-channel GMSL camera support is available for visual perception applications.



Website



Machine Vision



Machine Control



Logistics AGV



Intelligent Driving

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、1x Reset			
Expansion	1x miniPCIe、2x M.2 M Key(2242)、1x M.2 B Key(3050)			
Other I/O	1× CAN、4x Opto-Isolated GPIO、1x Nano SIM			
Serial Ports	2x RS232、2x RS485			
Temperature	-25℃ ~ +65℃			
Dimensions	190.3mm x 163mm x75.3mm			
Power	DC +12V~ +24V			
Weight	1603g			

Interfaces

