

28F2E4

Embodied AI Edge AI Box



Key Feature

- Jetson™ AGX Orin: 275/248/200 TOPS, 64/32GB LPDDR5, 64GB eMMC
- Rich I/O: HDMI, RJ45, USB Type-C, USB Type-A, Isolated GPIO, Isolated UART, CAN, RS485
- Expansion: Built-in miniPCIe, M.2 B-Key 3050, Nano SIM
- Operating Temperature: -25°C ~ +65°C/-40°C ~ +65°C
- Input Voltage: DC 9V ~ 36V
- Pre-installed Ubuntu

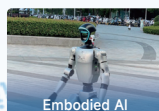
Introduction

The 28F2E4 is a high-performance edge AI computing device equipped with the NVIDIA® Jetson™ AGX Orin core module. It delivers up to 275 TOPS of computing power, enabling stable real-time analysis of 16-channel 1080P high-definition videos and local inference for complex deep learning models. Optimized for industrial automation, machine vision inspection, warehousing, logistics and other scenarios, it supports Wi-Fi and 5G communication expansion to greatly improve deployment flexibility.

The 28F2E4 integrates a full range of external interfaces. 4×USB Type-A, 2×USB Type-C and 4×Gigabit Ethernet ports meet high-speed data transmission and networking demands; 2×RS232 and 2×RS485 interfaces allow seamless connection with mainstream industrial devices including PLCs, servo drives and sensors. Furthermore, it is built with 4 electrically isolated GPI, 4 electrically isolated GPO (3.3V/5V adjustable) and 3 isolated UART ports, effectively enhancing anti-interference capability and ensuring signal integrity in complex electromagnetic environments. The Nano SIM slot enables 4G remote operation and maintenance, and the audio interface provides hardware support for voice recognition and human-machine interaction applications.



Website



Specifications

Module	Jetson AGX Orin 64GB	Jetson AGX Orin 32GB	Jetson AGX Orin工业版
AI Performance	275 TOPS	200 TOPS	248 TOPS
GPU	2048-core NVIDIA Ampere GPU with 64 Tensor Cores	1792-core NVIDIA Ampere GPU with 56 Tensor Cores	2048-core NVIDIA Ampere GPU with 64 Tensor Cores
CPU	12-core Arm® Cortex®-A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3	8-core Arm® Cortex®-A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3	12-core Arm® Cortex® -A78AE v8.2 64-bit CPU 3MB L2 + 6MB L3
Memory	64GB 256-bit LPDDR5 204.8GB/s	32GB 256-bit LPDDR5 204.8GB/s	64GB 256-bit LPDDR5 (+ECC) 204.8GB/s
Storage	64GB eMMC 5.1		
Video Encode	2x 4K60 (H.265)、4x 4K30 (H.265) 8x 1080p60 (H.265)、16x 1080p30 (H.265)	1x 4K60 (H.265)、3x 4K30 (H.265) 6x 1080p60 (H.265)、12x 1080p30 (H.265)	1x 4K60 (H.265)、3x 4K30 (H.265) 7x 1080p60 (H.265)、15x 1080p30 (H.265)
Video Decode	1x 8K30 (H.265)、3x 4K60 (H.265) 7x 4K30 (H.265)、11x 1080p60 (H.265) 22x 1080p30 (H.265)	1x 8K30 (H.265)、2x 4K60 (H.265) 4x 4K30 (H.265)、9x 1080p60 (H.265) 18x 1080p30 (H.265)	1x 8K30 (H.265)、3x 4K60 (H.265) 7x 4K30 (H.265)、1x 1080p60 (H.265) 23x 1080p30 (H.265)
Display	1 x HDMI		
USB	2 x USB Type-C、4 x USB Type-A		
Networking	4x RJ45		
Button	1 x Recovery、1 x Reset、1xPWR		
Expansion	1x miniPCIe、1x M.2 B key (3050)、1x Nano SIM		
Other I/O	2 x AUDIO、2 x MIC、4 x Isolated GPIO、2 x CAN		
Serial Ports	2x RS232、2x RS485、3x Isolated UART 3.3V		
Temperature	-25℃ ~ +65℃		-40℃ ~ +65℃
Dimensions	202mmx195mmx65.5mm		
Power	DC + 9V~+36V		
Weight	2361g		

Interfaces

