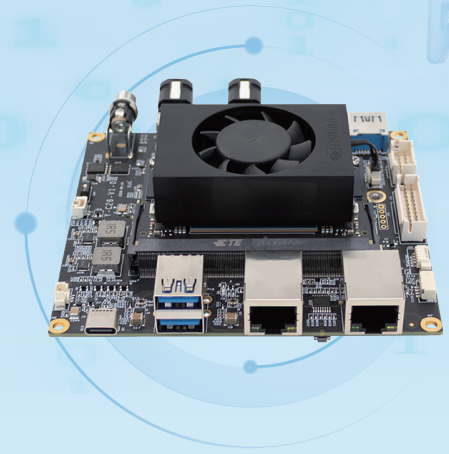


Y-C26-DEV Development System



Key Feature

- Jetson™ Orin NX:157117 TOPS, 16/8GB LPDDR5
- Jetson™ Orin Nano:67/34 TOPS,8/4GB LPDDR5
- Rich I/O: 1x HDMI, 2x RJ45, 3x USB 3.0 Type-A, 1x USB2.0, 2x GPIO, 2x RS232, 1x CAN, etc
- Expansion Slots: 1x M.2 M Key (2280), 1x M.2 E Key (2230)
- Camera: 2x Mini-FAKRA
- Operating Temperature: -25 ~ +60°C
- Input Voltage: DC 9V ~ 16V
- Pre-installed Ubuntu system

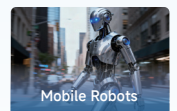
Introduction

The Y-C26-DEV is an industrial-grade edge AI Development Kit built around the NVIDIA Jetson Orin NX and Orin Nano system-on-modules. It offers four AI compute tiers at 34, 67, 117, and 157 TOPS, and measures 110 × 100 × 38.8 mm. The kit is designed for developers building advanced AI applications such as autonomous mobile robots, intelligent vision, and multimodal interaction.

The Y-C26-DEV provides a rich set of external interfaces. Two Mini-FAKRA camera interfaces support GMSL camera modules, meeting the image acquisition requirements of in-vehicle and industrial vision scenarios. One M.2 Key M slot supports 2280 NVMe storage expansion, and one M.2 Key E slot supports WiFi module expansion. The kit uses wide-temperature industrial-grade components, protects main interfaces against electrostatic discharge, and includes overvoltage and reverse polarity protection on power input. The design supports a direct migration path from prototype development to mass production.



Website



Specifications

Module	Jetson Orin NX 16GB	Jetson Orin NX 8GB	Jetson Orin Nano 8GB	Jetson Orin Nano 4GB
AI Performance	157 TOPS	117 TOPS	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 CPU 2MB L2 + 4MB L3	6-core Arm® Cortex® -A78AE v8.2 64-bit CPU 1.5MB 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 位 LPDDR5 51 GB/s
Storage	(Supports external NVMe)			
Video Encoding	1x 4K60 (H.265) 3x 4K30 (H.265)、6x 1080p60 (H.265) 12x 1080p30 (H.265)		1080p30, supported by 1-2 CPU cores	
Video Decoding	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)	
Module	Jetson Orin NX/Orin Nano			
Display	1 x HDMI			
USB	3x USB 3.0 Type-A、1x USB 2.0			
Networking	2x RJ45			
Camera	2x Mini-Fakra （GMSL Serial Camera Interface）			
Expansion	1x M.2 M Key(2280), 1x M.2 E Key(2230)			
Functional Signals	2x GPIO、2x RS232、1x SPI、1x I2C、1x CAN			
Button	1x Power、1x Recovery			
Temperature	-25°C~+60°C			
Dimensions	110mm x 100mm x 33.8mm			
Power	DC 9V~16V			
Weight	--			

Interfaces

