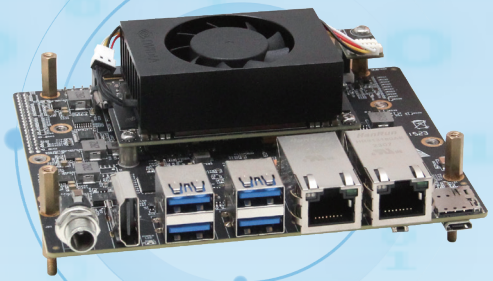


Y-C11-DEV Development System



Key Feature

- Jetson™ Orin NX: 157/117 TOPS, 16/8GB LPDDR5
- Jetson™ Orin Nano: 67/34 TOPS, 8/4GB LPDDR5
- Rich I/O: HDMI, RJ45 (independent bandwidth), USB3.0 Type-A (independent bandwidth), RTC, CAN, GPIO
- Expansion Slots: miniPCIe, M.2 M 2242, M.2 B 3050
- Camera: 2× 4 Lane MIPI CSI
- Operating Temperature: -25°C ~ +65°C
- Input Voltage: DC 12V ~ 24V
- Pre-installed Ubuntu

Introduction

Y-C11-DEV is an edge AI computing development kit powered by NVIDIA® Jetson™ Orin NX/Orin Nano system-on-modules, offering AI performance from 34 TOPS to 157 TOPS to satisfy demands in industrial automation, machine vision, logistics, intelligent transportation and smart cities. It provides reliable hardware support for rapid development and large-scale deployment of edge AI solutions.

Built with industrial-grade high-reliability design and triple protection, the kit ensures stable operation in harsh environments. It supports dual independent Gigabit Ethernet ports with optional PoE output and enables 4G/5G expansion via M.2 B-Key. miniPCIe and M.2 M-Key slots support flexible extension of networking, storage, audio/video capture and multi-serial modules



Website



Delivery robots



Intelligent Driving



Visual Inspection



Intelligent Security

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 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-bit LPDDR5 51 GB/s
Storage	(Supports 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	1 x HDMI			
USB	4x USB 3.0 Type-A(Independent Bandwidth)、1x Micro USB(OTG)			
Networking	2x RJ45 (Independent Bandwidth)			
Button	1x Recovery			
Camera	2x 4 Lane MIPI CSI			
Expansion	1x miniPCIe、2x M.2 Key M(2242)、1x M.2 Key B(3050)、1x Nano SIM			
Functional Signals	1x CAN、4x GPIO、2x I2C、2x SPI、1x I2S			
Serial Ports	2x UART 3.3V			
Temperature	-25°C~+65°C			
Dimensions	120mm × 100mm × 36.7mm			
Power	DC+12V ~ +24V			
Weight	188g			

Interfaces

