



Y-C1-DEV Development System

Key Feature

- Jetson™ TX2: 1.33 TFLOPS, 8/4GB LPDDR4, 32/16GB eMMC
- Jetson™ TX2i: 1.3 TFLOPS, 8GB LPDDR4 (ECC Supported), 32GB eMMC
- Rich I/O: HDMI, RJ45, USB3.0 Type-A, Micro USB, Micro SD, RTC, CAN, GPIO, I2C, UART
- Operating Temperature: -25°C ~ +65°C
- Input Voltage: DC 7V ~ 19V
- Pre-installed Ubuntu

Introduction

Y-C1-DEV is an edge AI computing development kit powered by NVIDIA® Jetson™ TX2/TX2i system-on-modules. With low cost, compact size and high integration, it meets industrial edge AI requirements for high performance, low power and reliable operation in harsh environments, providing stable hardware support for AI algorithm deployment in smart IoT and intelligent detection.

The kit integrates a 150-pin high-speed expansion connector for SATA, PCIe, MIPI CSI, I2C, I2S, SPI and DP signals. When used with the Y-C1-E1 expansion board, it supports multi-camera access, high-speed storage expansion and modular peripheral extension, greatly improving hardware compatibility and scalability



Website



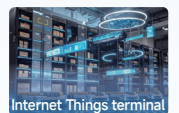
medical instrumentation



Mobile Robot



Intelligent Detection



Internet Things terminal

Specifications

Module	Jetson TX2 8GB	Jetson TX2i
AI Performance	1.33 TFLOPS	1.3 TFLOPS (FP16)
GPU	256-core NVIDIA Pascal™ architecture GPU	
CPU	A57 MPCore processor - Dual-core NVIDIA Denver™ 2 64-bit CPU and quad-core Arm®Cortex®-A57 MPCore processor	
Memory	8GB 128-bit LPDDR4 59.7GB/s	8GB 128-bit LPDDR4 (with ECC support) 51.2GB/s
Storage	32GB eMMC 5.1	32GB eMMC 5.1
Video Encode	1x 4K60 (H.265) 3x 4K30 (H.265) 4x 1080p60 (H.265)	
Video Decode	2x 4K60 (H.265) 7x 1080p60 (H.265) 14x 1080p30 (H.265)	
Display	1 x HDMI	
USB	2x USB3.0 Type-A、1x Micro USB(OTG)	
Networking	1x RJ45	
SD Card	1x micro SD	
Button	1x Recovery	
Functional Signals	2x CAN、4x GPIO、1x I2C	
Serial Ports	4x 3.3V TTL	
Temperature	-25°C~+65°C	
Dimensions	87mm × 60mm × 55mm	
Power	DC+7V~ +19V	
Weight	247g	

Interfaces

