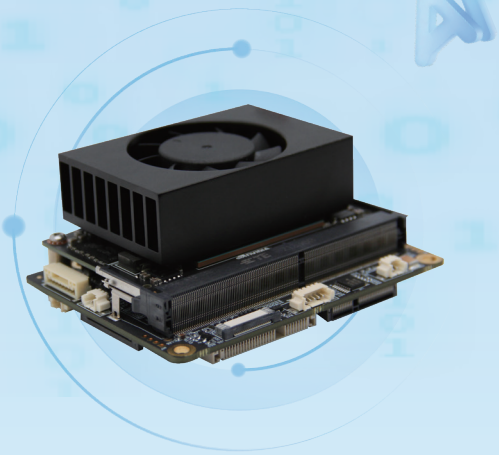
品立科技
PLink-AI

Y-C7-DEV
Development System



Key Feature

- Jetson™ Orin NX: 157/117 TOPS, 16/8GB LPDDR5
- Jetson™ Orin Nano: 67/34 TOPS, 8/4GB LPDDR5
- Jetson™ Xavier NX: 21 TOPS, 16/8GB LPDDR4x, 16GB eMMC
- Jetson™ TX2 NX: 1.33 TFLOPS, 4GB LPDDR4, 16GB eMMC
- Jetson™ Nano: 0.5 TFLOPS, 4GB LPDDR4, 16GB eMMC
- Rich I/O: HDMI, USB3.0 Type-C, Micro USB, USB2.0, RTC, GPIO, RS232
- Expansion Slots: miniPCIe, M.2 E 2242
- Camera: 1× 2-Lane MIPI CSI
- Operating Temperature: -25°C ~ +65°C
- Input Voltage: DC 9V ~ 24V
- Pre-installed Ubuntu

Introduction

Y-C7-DEV is an industrial-grade edge AI computing development kit supporting NVIDIA® Jetson™ Nano/TX2 NX/Xavier NX/Orin Nano/Orin NX system-on-modules, offering graded AI performance from 0.5 TFLOPS to 117 TOPS. With a compact size of 80mm × 60mm × 35.2mm, it features low cost, small size and high integration, ideal for drone inspection, environmental perception, emergency rescue and logistics delivery.

The kit uses flexible cable interfaces with stress relief structure to improve anti-vibration stability during flight. It supports MIPI CSI and multiple video formats including CVBS, SDI and HDMI. miniPCIe and M.2 E-Key slots enable modular function expansion and customization.

Website

www.plink-ai.com 400-127-3302 Beijing PLink AI Technology Co.,LTD.

Specifications

Module	Jetson Nano	Jetson TX2 NX	Xavier NX 16/8GB	Jetson Orin Nano 8GB	Jetson Orin Nano 4GB	Jetson Orin NX 16GB	Jetson Orin NX 8GB
AI Performance	0.5 TFLOPS	1.33 TFLOPS	21TOPS	67 TOPS	34 TOPS	157 TOPS	117 TOPS
GPU	128-core NVIDIA Maxwell™ architecture GPU	256-core NVIDIA Pascal™ architecture GPU	384-core NVIDIA Ampere architecture GPU with 48 Tensor Cores	1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores	512-core NVIDIA Ampere architecture GPU with 16 Tensor Cores	1024-core NVIDIA Ampere architecture GPU with 32 Tensor Cores	
CPU	Quad-core ARM® Cortex®-A57 MPCore processor	A57 MPCore processor Dual-core NVIDIA Denver™ 2 64-bit CPU and 4 cores Arm® Cortex®-A57 MPCore processor	6-core NVIDIA CarmelArm®v8.2 64-bit CPU 6MB L2 + 4MB L3	6-core Arm® Cortex® -A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3		8-core Arm®Cortex® -A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3	6-core Arm®Cortex® -A78AE v8.2 64-bit CPU1.5MB L2 + 4MB L3
Memory	4GB 64-bit LPDDR4 25.6GB/s	4GB 128-bit LPDDR4 25.6GB/s	16/8GB 128 -bit LPDDR4x 59.7GB/s	8GB 128-bit LPDDR5 102 GB/s	4GB 64-bit LPDDR5 51 GB/s	16GB 128-bit LPDDR5 102.4GB/s	8GB 128-bit LPDDR5 102.4GB/s
Storage	16GB eMMC			(Supports external NVMe)			
Video Encode	1x 4K30 (H.265) 2x 1080p60 (H.265)	1x 4K60 (H.265) 3x 4K30 (H.265) 4x 1080p60 (H.265)	2x 4K60 (H.265) 4x 4K30 (H.265) 10x 1080p60 (H.265) 22x 1080p30 (H.265)	1080p30 supported by 1-2 CPU cores		1x 4K60 (H.265)、3x 4K30 (H.265) 6x 1080p60 (H.265)、12x 1080p30 (H.265)	
Video Decode	1x 4K60 (H.265) 4x 1080p60 (H.265)	2x 4K60 (H.265) 7x 1080p60 (H.265) 14x 1080p30 (H.265)	2x 8K30 (H.265) 6x 4K60 (H.265) 12x 4K30 (H.265) 22x 1080p60 (H.265) 44x 1080p30 (H.265)	1x 4K60 (H.265)、2x 4K30 (H.265) 5x 1080p60 (H.265)、11x 1080p30 (H.265)		1x 8K30 (H.265)、2x 4K60 (H.265) 4x 4K30 (H.265)、9x 1080p60 (H.265) 18x 1080p30 (H.265)	
Display	1 x HDMI						
USB	1x Micro USB、1x USB3.0 Type-C、1x USB 2.0						
Networking	1x Ethernet Connector						
Camera	1x 2 Lane MIPI CSI						
Expansion	1x miniPCIe	1x miniPCIe、1x M.2 Key E（2242）					
Functional Signals	4x GPIO、1x I2C	1x CAN、4x GPIO、1x I2C					
Serial Ports	1x RS232、1x TTL						
Temperature	-25°C~+65°C						
Dimensions	80mm × 60mm × 35.2mm						
Power	DC+9V~ +24V						
Weight	120g						

Interfaces