

Specifications



Jetson AGX Orin Developer Kit	
Module	NVIDIA Jetson AGX Orin (64GB) module
CPU	12-core 64-bit ARM Cortex-A78AE v8.2 processor, up to 2.2GHz
AI capability	275 TOPS
GPU	2048 core NVIDIA Ampere architecture GPU with 64 Tensor Cores
DL accelerator	2 × NVDLA v2
Visual accelerator	1 × PVA v2
Video encoding	H.265: 2×4K60, 4×4K30, 8×1080p60, 16×1080p30
Video decoding	H.265: 1×8K30, 3×4K60, 7×4K30, 11×1080p60, 22×1080p30
Memory	64GB 256-bit LPDDR5, 204.8GB/s
Storage	64GB eMMC 5.1, 1 × SD Card
Power	DC 10V/4.5A (Max: 9V-20V)
Size	110.0mm(L) × 110.0mm(W) × 71.65mm(H)
Environment	Operating Temperature: -20°C ~ 60°C, Storage Temperature: -20°C ~ 70°C, Storage Humidity: 10% ~ 90%RH (non-condensing)
Ethernet	1 × RJ45 (up to 10GbE)
Camera	16-channel MIPI CSI-2
Display	1 × DP1.4a (+MST)
USB	2 × Type-C, 2 × USB3.2 Gen2, 2 × USB3.2 Gen1, 1 × Micro-B (USB2.0)
PCIe	1 × x16 PCIe slots (Support x8 PCIe4.0), 1 × M.2 M-KEY (Support x4 PCIe4.0), 1 × M.2 E-KEY (Support x1 PCIe4.0)
Button	1 × Power, 1 × Force Recovery, 1 × Reset
Other interfaces	1 × 40-pin expansion connector (UART, SPI, I2S, I2C, CAN, PWM, DMIC, GPIO), 1 × 12-pin automation interface, 1 × 10-pin audio panel connector, 1 × 10-pin JTAG, 1 × 4-pin fan connector, 1 × 2-pin RTC battery backup connector