

SEEED-102110406

NVIDIA Jetson AGX Xavier Development Kit



PRODUCT DETAILS

Description

With the NVIDIA Jetson AGX Xavier developer kit, you can easily create and deploy end-to-end AI robotics applications for manufacturing, delivery, retail, agriculture, and more.

Supported by NVIDIA JetPack and DeepStream SDKs, as well as CUDA®, cuDNN, and TensorRT software libraries, the kit provides all the tools you need to get started right away. And because it's powered by the new NVIDIA Xavier processor, you now have more than 20X the performance and 10X the energy efficiency of its predecessor, the NVIDIA Jetson TX2.

Specification

Tech Specs

- GPU: 512-core Volta GPU with Tensor Cores
- CPU: 8-core ARM v8.2 64-bit CPU, 8MB L2 + 4MB L3
- Memory: 32GB 256-Bit LPDDR4x | 137GB/s
- Storage: 32GB eMMC 5.1
- DL Accelerator: (2x) NVDLA Engines
- Vision Accelerator: 7-way VLIW Vision Processor
- Encoder/Decoder: (2x) 4Kp60 | HEVC/(2x) 4Kp60 | 12-Bit Support
- Size: 105 mm x 105 mm x 65 mm
- Deployment: Module (Jetson AGX Xavier)

Developer Kit I/Os(Jetson AGX Xavier Module Interface)

- PCIe X16(x8 PCIe Gen4/x8 SLVS-EC)
- RJ45(Gigabit Ethernet)
- USB-C(2x USB 3.1, DP (Optional), PD (Optional) Close-System Debug and Flashing Support on 1 Port)
- Camera Connector((16x) CSI-2 Lanes)
- M.2 Key M(NVMe)
- M.2 Key E(Pcie x1 + USB 2.0 + UART (for Wi-Fi/LTE) / I2S / PCM)
- 40-Pin Header(UART + SPI + CAN + I2C + I2S + DMIC + GPIOs)
- HD Audio Header(High-Definition Audio)
- eSATAp + USB3.0 Type A(SATA Through PCIe x1 Bridge (PD + Data for 2.5-inch SATA) + USB 3.0)
- HDMI Type A(HDMI 2.0)
- uSD/UFS Card Socket(SD/UFS)

Part List

- 1 x NVIDIA Jetson AGX Xavier Development Kit