NVIDIA Jetson AGX Xavier Module

SKU
102110408

NVIDIA Jetson AGX Xavier is an upgraged version of NVIDIA Jetson TX2, it is more than 20X the performance and 10X the energy efficiency of the NVIDIA Jetson TX2.

PRODUCT DETAILS

Key Features

- More than 20X the performance and 10X the energy efficiency of the NVIDIA Jetson TX2

- Supported by NVIDIA JetPack and DeepStream SDKs, as well as CUDA®, cuDNN, and TensorRT software libraries

Description

The new Jetson AGX Xavier module makes AI-powered autonomous machines possible, running in as little as 10W and delivering up to 32 TOPs. As part of the world's leading AI computing platform, it benefits from NVIDIA's rich set of AI tools and workflows, which enable developers to train and deploy neural networks quickly. Jetson AGX Xavier is supported by the NVIDIA JetPack SDK, which can help you save big by reducing development effort and expense.

Comparison Between The NVIDIA Jetson AI Modules

	Jetson Nano	Jetson TX2 NX	Jetson TX2 Series	Jetson Xavier NX	Jetson AGX Xavier Series
AI Performance	0.5 TFLOPS (FP16)	1.33 TFLOPs	1.3 TFLOPS (FP16)	6 TFLOPS (FP16) 21 TOPS (INT8)	5.5-11 TFLOPS (FP16) 20-32 TOPS (INT8)
GPU	128-core NVIDIA Maxwell™ GPU	NVIDIA Pascal™ Architecture GPU with 256 CUDA cores	256-core NVIDIA Pascal™ GPU architecture with 256 NVIDIA CUDA cores	NVIDIA Volta architecture with 384 NVIDIA CUDA® cores and 48 Tensor cores	512-Core Volta GPU with Tensor Cores
CPU	Quad-core ARM A57 @ 1.43 GHz	Dual-Core NVIDIA Denver 2 64-Bit CPU Quad-Core ARM® Cortex®-A57 MPCore processor	Dual-Core NVIDIA Denver 2 64-Bit CPU Quad-Core ARM® Cortex®-A57 MPCore	6-core NVIDIA Carmel ARM®v8.2 64-bit CPU 6 MB L2 + 4 MB L3	8-Core ARM v8.2 64-Bit CPU, 8 MB L2 + 4 MB L3
Memory	4 GB 64-bit LPDDR4 25.6 GB/s	4GB 128-bit LPDDR4, 1600 MHz - 51.2 GB/s	8GB 128-bit LPDDR4 1866 MHz - 59.7 GB/s	8 GB 128-bit LPDDR4x @ 51.2GB/s	32 GB 256-Bit LPDDR4x	137 GB/s

	Jetson Nano	Jetson TX2 NX	Jetson TX2 Series	Jetson Xavier NX	Jetson AGX Xavier Series
Power Consumption	5-10W	7.5W / 15W	7.5-15W	10-15W	10-30W
Dimensions	45 x 70mm	45 x 70mm	50 x 87mm	45 x 70mm	100 x 87mm

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 | 136.5GB/s
- Storage: 32GB eMMC 5.1
- DL Accelerator: (2x) NVDLA Engines* | 5 TFLOPS (FP16), 10 TOPS (INT8)
- Vision Accelerator: 7-way VLIW Vision Processor
- Video Encode:2x1000MP/sec,4x 4K @ 60 (HEVC),8x 4K @ 30 (HEVC),16x 1080p @ 60 (HEVC),32x 1080p @ 30 (HEVC)
- Video Decode: 2x1500MP/sec,2x 8K @ 30 (HEVC),6x 4K @ 60 (HEVC),12x 4K @ 30 (HEVC),26x 1080p @ 60 (HEVC),52x 1080p @ 30 (HEVC),30x 1080p @ 30 (H.264),
- Size: 105 mm x 105 mm

This version of the NVIDIA Jetson AGX Xavier Module has been upgraded to 32GB of RAM from 16GB of the previous version.

Part List

1 x NVIDIA Jetson AGX Xavier Module

ECCN/HTS

HSCODE	8543709990
USHSCODE	8517620090
UPC	