



Jetson AGX Xavier Developer Kit



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.

Get started today with the Jetson AGX Xavier Developer Kit.

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The Tech Specs

JETSON AGX XAVIER

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

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

Developer Kit 1/0s		Jetson AGX Xavier Developer Kit	ACCOUNT (/LOGIN)
M.2 Key E	PCIe x1 + USB 2.0 + UART (for Wi-Fi/LTE) / I ² S / PCM		
40-Pin Header	UART + SPI + CAN + I ² C + I ² S + 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		

Resources

Developer Kit User Guide > (/embedded/dlc/jetson-agx-xavier-developer-kit-user-guide)

Documentation > (/embedded/downloads#?search=Jetson%20AGX%20Xavier)

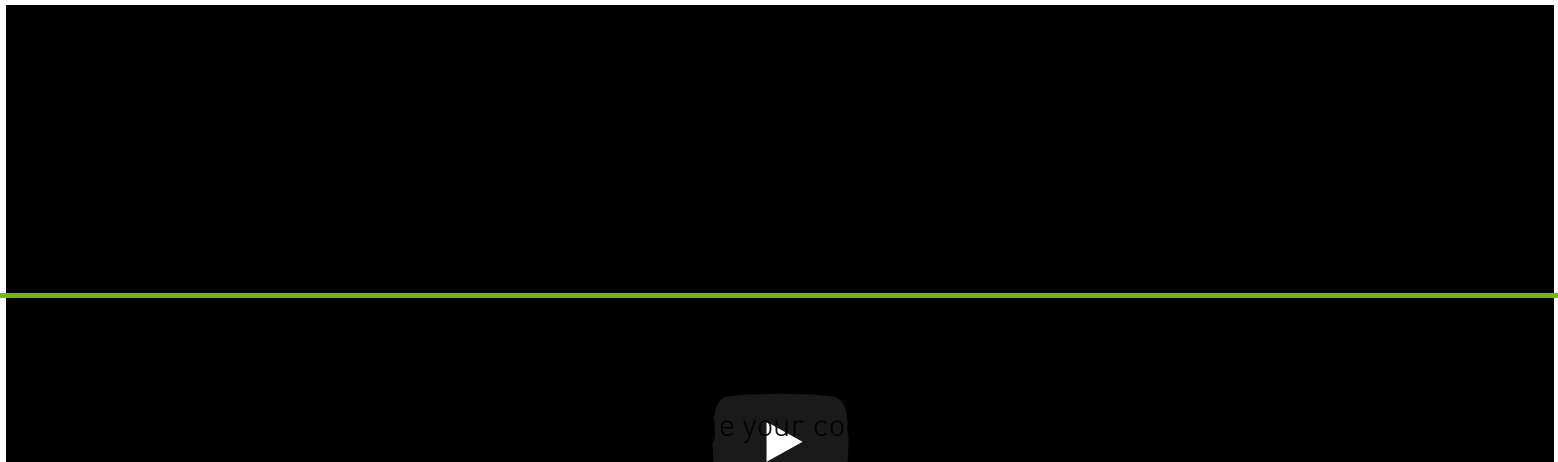
FAQ > (/embedded/faq#xavier-faq)

DL Inference Benchmarks > (/embedded/jetson-agx-xavier-dl-inference-benchmarks)

Technical Blog > (https://devblogs.nvidia.com/nvidia-jetson-agx-xavier-32-teraops-ai-robotics/?ncid=so...)

Intro Video to Jetson AGX Xavier

The NVIDIA Jetson AGX Xavier Developer Kit is the latest addition to the Jetson platform. It's an AI computer for autonomous machines, delivering the performance of a GPU workstation in an embedded module under 30W. Jetson AGX Xavier is designed for robots, drones and other autonomous machines.





Questions?

Please post any questions you have to the NVIDIA Jetson Developer Forum (<https://devtalk.nvidia.com/default/board/326/jetson-xavier/%3E>).

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Jetson Forums (<https://forums.developer.nvidia.com/c/agx-autonomous-machines/jetson-embedded-systems/70>)

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