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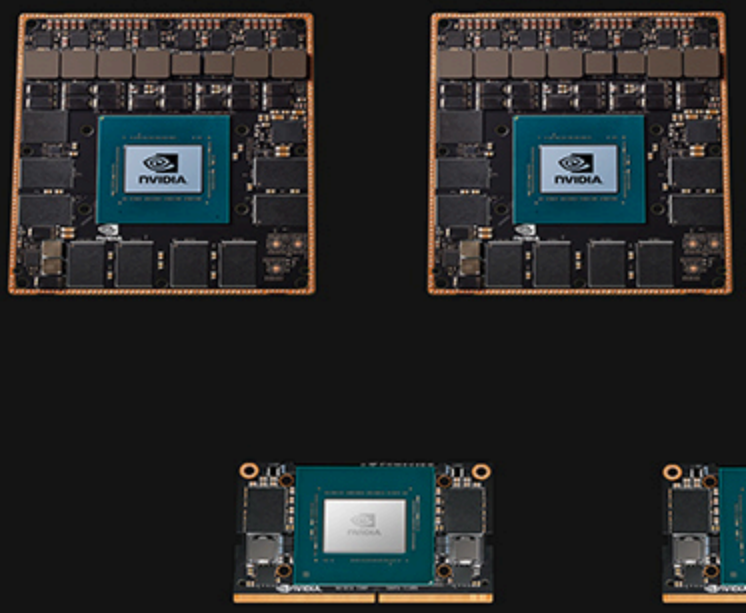
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NVIDIA Jetson Xavier

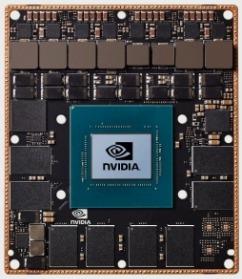
A breakthrough in embedded applications.



The Jetson Xavier™ family of modules features the world's first computers designed specifically for autonomous machines. Up to 32 TOPS of AI performance makes these modules ideal for handling visual odometry, sensor fusion, localization and mapping, obstacle detection, and path-planning algorithms that are critical to next-generation robots. With five different production modules based on the same architecture, theJetson Xavier family delivers just what you need to start developing for your specific robotics and edge AI applications.

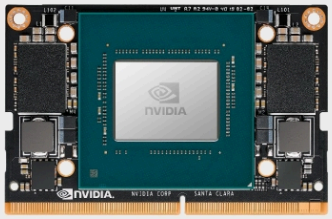
Next-Gen Capabilities

Jetson Xavier sets a new bar for compute density, energy efficiency, and AI inferencing capabilities on edge devices. It's the next evolution in intelligent machines with end-to-end autonomous capabilities.



Jetson AGX Xavier Series

Jetson AGX Xavier-series modules feature a compact form factor of just 100mm x 87mm and 750Gdps of high-speed I/O, delivering workstation performance at 1/10 the size. Ideal for autonomous machines, it has configurable power profiles and is available in 64GB, 32GB, and Industrial versions.



Jetson Xavier NX Series

Jetson Xavier NX-series modules deliver up to 21 TOPS of AI performance in a small form factor measuring only 70mm x 45mm. They run multiple neural networks in parallel and support high-resolution sensors, making them perfect for embedded systems. With high performance, power efficiency, and support for all popular AI frameworks, these modules are production ready and available in 16GB and 8GB versions.

View Jetson Xavier Technical Specifications

	Jetson AGX Xavier series			Jetson Xavier NX series	
	Jetson AGX Xavier Industrial	Jetson AGX Xavier (64GB)	Jetson AGX Xavier (32GB)	Jetson Xavier NX (16GB)	Jetson Xavier NX (8GB)

AI Performance	30 TOPS	32 TOPS		21 TOPS	
GPU	512-core NVIDIA Volta architecture GPU with 64 Tensor Cores			384-core NVIDIA Volta™ architecture GPU with 48 Tensor Cores	
GPU Max Frequency	1211 MHz	1377 MHz		1100 MHz	
CPU	8-core NVIDIA Carmel Arm®v8.2 64-bit CPU 8MB L2 + 4MB L3			6-core NVIDIA Carmel Arm®v8.2 64-bit CPU 6MB L2 + 4MB L3	
CPU Max Frequency	2.0 GHz	2.2 GHz		1.9 GHz	
DL Accelerator	2x NVDLA			2x NVDLA	
DLA Max Frequency	1.2 GHz	1.4 GHz		1.1 GHz	
Vision Accelerator	2x PVA			2x PVA	
Safety Cluster Engine	2x Arm® Cortex®-R5 in lockstep	-		-	
Memory	32GB 256-bit LPDDR4x (ECC support) 136.5GB/s	64GB 256-bit LPDDR4x 136.5GB/s	32GB 256-bit LPDDR4x 136.5GB/s	16GB 128-bit LPDDR4x 59.7GB/s	8GB 128-bit LPDDR4x 59.7GB/s
Storage	64GB eMMC 5.1	32GB eMMC 5.1		16GB eMMC 5.1	
Video Encode	2x 4K60 (H.265) 6x 4K30 (H.265) 12x 1080p60 (H.265) 24x 1080p30 (H.265)	4x 4K60 (H.265) 8x 4K30 (H.265) 16x 1080p60 (H.265) 32x 1080p30 (H.265)		2x 4K60 (H.265) 4x 4K30 (H.265) 10x 1080p60 (H.265) 22x 1080p30 (H.265)	

Video Decode	2x 8K30 (H.265) 4x 4K60 (H.265) 8x 4K30 (H.265) 18x 1080p60 (H.265) 36x 1080p30 (H.265)	2x 8K30 (H.265) 6x 4K60 (H.265) 12x 4K30 (H.265) 26x 1080p60 (H.265) 52x 1080p30 (H.265)	2x 8K30 (H.265) 6x 4K60 (H.265) 12x 4K30 (H.265) 22x 1080p60 (H.265) 44x 1080p30 (H.265)
CSI Camera	Up to 6 cameras (36 via virtual channels) 16 lanes MIPI CSI-2 D-PHY 1.2 (up to 40 Gbps) C-PHY 1.1 (up to 62 Gbps)	Up to 6 cameras (36 via virtual channels) 16 lanes MIPI CSI-2 | 8 lanes SLVS-EC D-PHY 1.2 (up to 40 Gbps) C-PHY 1.1 (up to 62 Gbps)	Up to 6 cameras (24 via virtual channels) 14 lanes MIPI CSI-2 D-PHY 1.2 (up to 30 Gbps)
PCIe*	1 x8 + 1 x4 + 1 x2 + 2 x1 (PCIe Gen4, Root Port & Endpoint)		1 x4 (PCIe Gen4) + 1 x1 (PCIe Gen3)
USB*	3x USB 3.2 Gen2 (10 Gbps) 4x USB 2.0		1x USB 3.2 Gen2 (10 Gbps) 3x USB 2.0
Networking*	1x GbE		1x GbE
Display	3 multi-mode DP 1.4/eDP 1.4/HDMI 2.0		2 multi-mode DP 1.4/eDP 1.4/HDMI 2.0
Other I/O	5x UART, 3x SPI, 4x I2S, 8x I2C, 2x CAN, PWM, DMIC, GPIOs		3x UART, 2x SPI, 2x I2S, 4x I2C, 1x CAN, PWM, DMIC & DSPK, GPIOs
Power	20W - 40W	10W - 30W	10W - 20W
Mechanical	100mm x 87mm 699-pin connector Integrated Thermal Transfer Plate		69.6mm x 45mm 260-pin SO-DIMM connector

† The Jetson Nano and Jetson Xavier NX modules included as part of the Jetson Nano developer kit and the Jetson Xavier NX developer kit have slots for using microSD cards instead of eMMC as system storage devices.

Refer to the Software Features section of the latest NVIDIA Jetson Linux Developer Guide for a list of supported features.

View Fewer Specs

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