



NVIDIA Announces Availability of Jetson AGX Orin Developer Kit to Advance Robotics and Edge AI

One Million Developers Now Deploying on Jetson; Microsoft Azure, John Deere, Medtronic, Amazon Web Services, Cisco, Hyundai Robotics, JD.com, Komatsu, Meituan Among Leading Adopters

GTC—NVIDIA today announced the availability of the [NVIDIA® Jetson AGX Orin™ developer kit](#), the world's most powerful, compact and energy-efficient AI supercomputer for advanced robotics, autonomous machines, and next-generation embedded and edge computing.

Jetson AGX Orin delivers 275 trillion operations per second, giving customers over 8x the processing power of its predecessor, Jetson AGX Xavier, while maintaining the same palm-sized form factor and pin compatibility — all at a similar price. It features an NVIDIA Ampere architecture GPU, Arm Cortex-A78AE CPUs, next-generation deep learning and vision accelerators, high-speed interfaces, faster memory bandwidth and multimodal sensor support to feed multiple, concurrent AI application pipelines.

“As AI transforms manufacturing, healthcare, retail, transportation, smart cities and other essential sectors of the economy, demand for processing continues to surge,” said Deepu Talla, vice president of Embedded and Edge Computing at NVIDIA. “A million developers and more than 6,000 companies have already turned to Jetson. The availability of Jetson AGX Orin will supercharge the efforts of the entire industry as it builds the next generation of robotics and edge AI products.”

Customers using Jetson AGX Orin can leverage the full [NVIDIA CUDA-X™](#) accelerated computing stack, [NVIDIA JetPack™](#) SDK, pretrained models from the [NVIDIA NGC™](#) catalog and the latest frameworks and tools for application development and optimization such as [NVIDIA Isaac™](#) on Omniverse™, [NVIDIA Metropolis](#), and [NVIDIA TAO Toolkit](#). This reduces time and cost for production-quality AI deployments, allowing developers to access the largest, most complex models needed to solve robotics and edge AI challenges in 3D perception, natural language understanding, multisensor fusion and more.

Broad Customer and Ecosystem Support

Jetson AGX Orin has received strong feedback from the robotics and embedded computing ecosystem, including Microsoft Azure, John Deere, Medtronic Digital Surgery, AWS, Hyundai Robotics, JD.com, Komatsu, Meituan and many more.

- “We are extending the powerful Microsoft Azure platform to the intelligent edge. Combining Azure’s advanced capabilities with performance and software development tools such as NVIDIA Jetson AGX Orin helps give developers a seamless experience to easily build, deploy and operate production-ready AI applications.” — *Roanne Sones, corporate vice president, Microsoft Azure Edge + Platforms*
- “With the global population expected to reach nearly 10 billion people by 2050, farmers have a steep challenge of feeding the world and they can’t do it alone. With less available land and labor, and many variables to work through, deploying and scaling advanced technology like autonomy is key to building a continually smart, evolving and more efficient farm. Our fully autonomous tractor, featuring two NVIDIA Jetson GPUs for quick and accurate image classification at the edge, will be on farms this year, supporting farmers in overcoming challenges and providing for our growing world.” — *Jahmy Hindman, chief technology officer at John Deere*
- “As a recognized medical technology leader, Medtronic continues to innovate and advance solutions to improve surgical patient care. We recognize the key role for AI in digitization of surgery through quantitative analytics and real-time clinical decision support systems. The latest NVIDIA Jetson platform brings us a new level of computational performance in the operating room and enables us to advance intraoperative systems to better support surgeons, through data-enabled solutions.” — *Dan Stoyanov, chief scientific officer at Medtronic Digital Surgery*
- “Advances in edge AI and robotics are reshaping entire industries by overcoming rising costs and limitations in labor and materials. Every industry will benefit from AI and robotics in the future, and 2022 is proving to be a key tipping point. Combined with NVIDIA pretrained AI models, frameworks like TAO toolkit and Isaac on Omniverse, and supported by the Jetson developer community and its partner ecosystem, Jetson AGX Orin offers a scalable AI platform with unmatched resources that make it easy to adapt to almost any application.” — *Jim McGregor, principal analyst at TIRIAS Research*

The Jetson™ embedded computing partner ecosystem encompasses a broad range of services and products, including cameras and other multimodal sensors, carrier boards, hardware design services, AI and system software, developer tools and custom software development.

Jetson AGX Orin Pricing and Availability

The NVIDIA Jetson AGX Orin developer kit is [available now](#) at \$1,999. Production modules will be available in the fourth quarter starting at \$399.

To learn more about Jetson AGX Orin, watch the [GTC 2022 keynote](#) from Jensen Huang. [Register for GTC for free](#) to attend sessions with NVIDIA and industry leaders.

About NVIDIA

[NVIDIA](#)'s (NASDAQ: NVDA) invention of the GPU in 1999 sparked the growth of the PC gaming market and has redefined modern computer graphics, high performance computing and artificial intelligence. The company's pioneering work in accelerated computing and AI is reshaping trillion-dollar industries, such as transportation, healthcare and manufacturing, and fueling the growth of many others. More information at <https://nvidianews.nvidia.com/>.

Certain statements in this press release including, but not limited to, statements as to: the benefits, impact, performance, specifications and availability of our products and technologies, including Jetson AGX Orin; AI transforming manufacturing, healthcare, retail, transportation, smart cities and other essential sectors of the economy; demand for processing continuing to surge; the next generation of robotics and edge AI products; and advances in edge AI and robotics reshaping entire industries are forward-looking statements that are subject to risks and uncertainties that could cause results to be materially different than expectations. Important factors that could cause actual results to differ materially include: global economic conditions; our reliance on third parties to manufacture, assemble, package and test our products; the impact of technological development and competition; development of new products and technologies or enhancements to our existing product and technologies; market acceptance of our products or our partners' products; design, manufacturing or software defects; changes in consumer preferences or demands; changes in industry standards and interfaces; unexpected loss of performance of our products or technologies when integrated into systems; as well as other factors detailed from time to time in the most recent reports NVIDIA files with the Securities and Exchange Commission, or SEC, including, but not limited to, its annual report on Form 10-K and quarterly reports on Form 10-Q. Copies of reports filed with the SEC are posted on the company's website and are available from NVIDIA without charge. These forward-looking statements are not guarantees of future performance and speak only as of the date hereof, and, except as required by law, NVIDIA disclaims any obligation to update these forward-looking statements to reflect future events or circumstances.

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