



Aitech Supercharges its Space-Proven Rugged AI Systems with NVIDIA IGX Thor

Descrizione

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Aitech Integrates NVIDIA IGX Thor Platform, Accelerating Rugged AI Edge Computing Solutions and Innovation for Space

CHATSWORTH, Calif., May 27, 2026 /PRNewswire/ - Aitech, a global leader in rugged, embedded AI-ready computing solutions, today announced it will integrate the NVIDIA IGX Thor platform into its S-A2300 COTS AI Supercomputer and future designs, expanding AI computing capabilities and ushering in a new era of accelerated computing for space and missions requiring edge AI. By integrating IGX Thor, Aitech is positioned to provide deployable, mission-ready space computing systems for the harshest operational environments.

This milestone reinforces Aitech's standing as a top-tier rugged computing specialist with more than 40 years of experience delivering high-performance solutions for mission-critical applications, including offering one of the first GPGPUs to fly in space. Aitech now has access to IGX Thor evaluation boards and modules, enabling rapid design, system integration and hardware-in-the-loop testing.

"Aitech is at the forefront of the AI revolution, delivering the most powerful, reliable and future-ready technologies available," said Dan Mor, director, Customer Solutions, Aitech. "By integrating IGX Thor into our space-proven, rugged AI systems, Aitech is uniquely positioned to help transition advanced AI from terrestrial industrial spaces to the harsh environments of orbit."

Expanding LEO Capabilities with the S-A2300 AI COTS Supercomputer Aitech was an early adopter of the NVIDIA Jetson AGX Orin platform, creating space-based AI compute solutions that power missions for NASA, Sidus Space and many other space trailblazers. The S-A2300 COTS AI Supercomputer, which leverages the NVIDIA Jetson AGX Orin Industrial system-on-module, is designed specifically for Low Earth Orbit (LEO) missions. It combines exceptional AI compute density with resilience against radiation and extreme environmental conditions.

Key features of the S-A2300 include:

Already delivering unmatched performance for spaceborne AI processing, the S-A2300 unlocks new levels of operational efficiency and on-orbit intelligence. IGX Thor will expand the capabilities further with up to 5,581 FP4 TFLOPS of AI compute for real-time inference and 400 GbE connectivity through the NVIDIA® ConnectX®-7 SmartNIC. Functional Safety Island (FSI) inside the Thor SoC also enables safety functions through the IGX software stack, ensuring reliable operation in mission-critical environments.

Accelerating Time-to-Mission With IGX Thor evaluation hardware, Aitech can accelerate development cycles, from concept to validation, dramatically reducing time-to-market for critical space and autonomous missions. Together, IGX Thor and Aitech's rugged AI platforms are a powerful foundation for the next generation of space-based intelligence and autonomy.

Aitech is currently inviting customers, integrators and mission partners to share their application requirements to begin discussions on configuration options, performance needs and development timelines. For more information visit <https://aitechsystems.com/products/space/integrated-systems-space/s-a2300-radiation-tolerant-cots-ai-supercomputer/>.

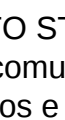
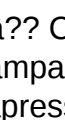
About Aitech Aitech is the world's first independent, open-systems COTS/MOTS innovator, offering rugged boards and subsystems that serve as the building blocks for integrated computing and networking solutions. With more than 40 years of experience in aerospace, defense, and space, Aitech delivers mission-proven, customizable solutions across sea, land, air, and space domains. Customers include Airbus, BAE Systems, Boeing, Hindustan Aeronautics Limited (HAL), Israel Aerospace Industries (IAI), Larsen & Toubro Limited (L&T), Leonardo, Lockheed Martin, NASA, Northrop Grumman, Rafael, and Virgin Galactic.

Aitech is committed to building a better tomorrow with reliable, cost-effective embedded systems engineered for the most demanding missions. For more information, visit www.aitechsystems.com.

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