

Trenton Systems Motherboards

TSM Servers | Xeon® and Core® CPUs

Ultra-rugged, USA-made computing solutions delivering unmatched performance, security, and flexibility alongside complex, ever-evolving on-premises and edge workloads.



COTS, MOTs, AND CUSTOM CONFIGURATIONS

Standard, modified, or fully custom options in full-rack or half-rack form factors. 1U, 2U, or 3U height with single or dual segments.



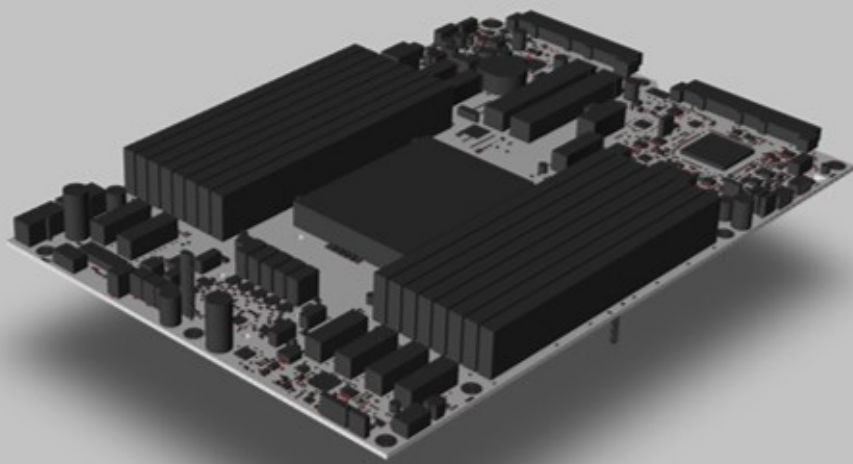
MAXIMUM DESIGN VERSATILITY

mini-ITX, microATX, ATX, and eATX boards or proprietary boards (tile options) made by Trenton with next-gen Intel® CPUs.



RUGGEDIZED FOR EXTREMES

Certified to the most stringent military and industrial standards to deliver peak performance within harsh environments.



Overview

The TSM Servers are equipped with the latest processing, AI/ML/DL, networking, security, and storage technologies to meet your most complex application or program requirements.

Industry standard or proprietary boards (compute tile options available) with single or dual next-gen CPUs from Intel®. Single- or multi-node configurations.

Our compute tiles offer unparalleled flexibility in system design, enabling us to create tailored solutions for customers' most complex needs while significantly reducing time to market.

Servers and workstations available.



SOLUTION HIGHLIGHTS



Made in the USA: Our HPC solutions are designed, manufactured, assembled, tested, and supported in the USA. Boards are **designed** and **populated** in the USA.



Secure and transparent supply chain with each component fully vetted, tracked, and traced down to the resistor level to ensure complete system integrity.



Cyber resilient and confidential computing solutions guarding data at-rest, in-transit, and in-use across the hardware, firmware, software, and network layers.



11-to-15-year average lifecycle, as we can make incremental upgrades at the component level and "engineer-in" form, fit, and function alternatives.



CSfC, ITAR, ISO9001, and AS9100 adherence and compliance allow Trenton to consistently provide secure, high-quality computing solutions.



DC-MHS support allows for increased modularity, scalability, and interoperability of hardware, reducing total cost of ownership over time.



Technical Overview

SPECIFICATION	DETAILS
CPUs	Intel® Xeon® 6, 15 th Gen Core® CPUs
Memory	High-frequency DDR5 ECC MRDIMM slots up to 8800 MT/s
Storage	NVMe/SATA/SAS SSDs/SEDs (FIPS 140-2/3 available)
Form Factors	1U/2U/3U 19" wide or half-rack servers up to 24" depth
Network Interface	1/10/25/40/100/200GbE ports (IPMI supported)
PCIe Interconnect	PCIe 5.0 interface via MCIO ports (card and cable architecture)
Power	Low/mid/high wattage, redundant/non-redundant, 461-optional, fixed/removable

*Specs above are for current configurations. Future generations and iterations of technologies supported.

TSM Servers can be customized to your most complex technical, performance, and environmental specifications in consultation with our team. Ensure maximum reliability when and where it matters most.

Contact us for pricing and availability.

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