Systems

Economical · Performant · Turnkey

Tenstorrent's TT-LoudBox and TT-QuietBox systems offer superior performance per dollar for developers looking to run, test, and develop AI models or port and develop libraries for HPC. These systems are equipped with Tenstorrent Wormhole™ Tensix Processors in a variety of configurations, with multi-chip configurations functioning in a flexible, Ethernet-based mesh topology that can expand to a large shared memory pool. Tenstorrent systems are supported by two open source SDKs for either high-level (TT-Buda™) or low-level (TT-Metalium™) development.

Turnkey Development Solutions

- Tenstorrent reference platforms
- Bring up and test frontiers of model inference performance
- Flexible for use as single-user/single-model or multiple-user/multiple-model systems
- Capable of running models up to 80 billion parameters
- Capable of running multiple models up to 20 billion parameters
- Customizable mesh topology can expand to a 96GB memory pool for less quantization and higher accuracy
- Discrete cards and ASICs can be individually targeted, providing parallel tasking for multiple users
- High performance-per-dollar
- Two open source SDKs (TT-Buda™ and TT-Metalium™) for either high-level or low-level development
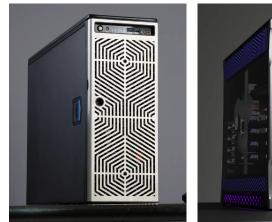
Better Performance-Per-Dollar

Customers looking to enter Tenstorrent's ecosystem and enjoy superior performance-per-dollar can start with the TT-LoudBox and TT-QuietBox reference platforms for Wormhole™ multi-chip solutions. TT-LoudBox features four air-cooled n300s Tensix Processors functioning in an eight-chip mesh and is designed to fit in a 4U rackmount or a desktop form factor. TT-QuietBox enjoys the benefits of TT-LoudBox's mesh architecture but brings the noise down by employing liquid cooling for the CPU and n300 Tensix Processors, offering all of the performance of TT-LoudBox in a whisper-quiet desktop workstation.

Comparison Chart

Card	TT-LoudBox	TT-QuietBox
Part Number	TW-02002	TW-04001
CPU(s)	2x Intel® Xeon® Silver 4309Y (16C/32T total)	AMD EPYC™ 8124P (16C/32T)
Memory	512GB (16x32GB) DDR4-3200	512GB (8x64GB) DDR5-4800
Storage	4TB NVMe	4TB NVMe
Tenstorrent Processor(s)	4x Wormhole™ n300	4x Wormhole™ n300
Tenstorrent Memory Pool	96GB	96GB
TFLOPs (FP8)	1864	1864
TFLOPs (FP16)	524	524
TFLOPs (BFP8)	1048	1048
I/O	2x RJ45 10GBase-T, 5x USB 3.1 Gen 1 Type-A, 1x USB 3.1 Gen 1 Type-C, 1x COM, 1x VGA, 1x Dedicated IPMI	2x RJ45 10GBase-T, 2x RJ45 1GBase-T, 4x USB 3.2 Gen 1 Type-A, 1x VGA (incl. HDMI adapter), 1x Dedicated IPMI
Power Supply	1+1 2200W*	1650W
Form Factor	4U Rackmount/Tower	Liquid-Cooled Tower
Region	Global	USA Only

208V or higher input voltage required for operation.

For additional specifications, hardware and software compatibility, and volume pricing, contact Tenstorrent at **sales@tenstorrent.com**