Lenovo ThinkSystem ST550

Enterprise capacity and performance in a 2P/4U tower

Enterprise Enabled, ROBO Ready

The Lenovo ThinkSystem ST550 is a scalable 4U tower server that features powerful Intel® Xeon® processor Scalable family CPUs. It provides the performance and reliability you expect from the data center, but optimized for office environments, with physical security and whisper-quiet operation. Its compact footprint uses 37 percent less space than its predecessor*, making it ideal for under-desk, deskside, or rack-mount use. ST550 is ideal for email/file/print and web serving, IT infrastructure, virtualization, VDI, and private cloud.

Compact, Secure, Flexible

ST550 supports up to 96.4TB of internal storage capacity, and Lenovo AnyBay technology enables the mixing and matching of storage types (U.2/SAS/SATA) in the same bays. Up to 6x PCIe adapter slots and multiple hardware and software RAID options offer the flexibility you need for NICs, GPUs, and other adapters.

Physical and software security technologies, including lockable security bezel, Kensington lock slot, chassis intrusion switch, and TPM 1.2/2.0, are ideal for remote locations without the protection of a data center. ST550 also offers money-saving features, such as highly energy-efficient 80 PLUS Platinum and Titanium hot-swap PSUs, continuous operation up to 45°C, and easy centralized management via XClarity software.

High-Performance, Reliable, Manageable

ST550 features more processor cores, memory, and I/O bandwidth than previous generations. It also provides more memory channels; 12Gb SAS interconnects; and support for HDD, SSD, NVMe, and M.2 drives; as well as high-performance GPUs—all at a lower price than previous generations.

Faster processors and memory, more cores, and support for NVMe and M.2 drives contribute to significantly better performance than the previous generation*. In addition, optional NVMe drives provide ultra-fast storage that can be tiered for greater application performance. Combining enterprise-class RAS features and shared components across the server portfolio increases reliability, promotes greater peace of mind, and reduces TCO.

XClarity Controller is the management hardware engine inside every ThinkSystem server, and XClarity Administrator centralizes management of your ThinkSystem and ThinkAgile infrastructure. With Redfish APIs and XClarity integrators you can easily integrate the Lenovo infrastructure into higher-level IT applications.

Why Lenovo

Lenovo is the leading provider of x86 systems for the data center. The portfolio includes rack, tower, blade, dense and converged systems, and supports enterprise class performance, reliability and security. Lenovo also offers a full range of networking, storage, software and solutions, and comprehensive services supporting business needs throughout the IT lifecycle.

Lenovo servers continue to be the industry's #1 most reliable‡, with the industry's highest customer satisfaction§ rating.

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Specifications

Form Factor/Height	4U rackable tower
Number of Processors	Up to 2x Intel® Xeon® Platinum processors, up to 125W
Memory	Up to 1.5TB[†] in 12x DIMM slots using 128GB DIMMs; 2666MHz TruDDR4
Expansion Slots	Up to 6x PCIe 3.0 (with 2x processors)
Drive Bays	Up to 16 SFF (including 4 NVMe) or 8 LFF bays; PLUS up to 4 SFF (in optical bay) & 2x internal M.2 boot
HBA/RAID Support	Software RAID (4x ports) std; opt. hardware RAID (up to 24x ports); up to 16-port HBAs
Security and Reliability Features	Lockable security bezel, Kensington lock slot, chassis intrusion switch, TPM 1.2/2.0, Predict Failure Analysis, HS/redundant drives, redundant PSUs, and 45°C continuous operation
Network Interface	2x 1GbE ports std; optional 1GbE, 10GBASE-T, and 10Gb SFP+; 1x dedicated 1GbE management port
Power (Energy Star 2.1 compliant)	1x 450W 80 PLUS Gold (fixed); **or** 2x 550W/750W/1100W 80 PLUS Platinum (hot-swap/redundant N+1); **or** 2x 750W 80 PLUS Titanium (hot-swap/redundant)
Systems Management	XClarity Controller embedded management, XClarity Administrator centralized infrastructure delivery, XClarity Integrator plugins, XClarity Energy Manager centralized server power management
OSes Supported	Microsoft Windows Server, SLES, RHEL, VMware vSphere. Visit lenovopress.com/osig for more information.
Limited Warranty	1- and 3-year customer replaceable unit and onsite service, next business day 9x5, opt. service upgrades

* Compared to Lenovo ThinkServer TD350; [‡] 2016-2017 Global Hardware, Server OS Reliability Report, ITIC; October 2016;
[§] 2H16 Corporate IT Buying Behavior and Customer Satisfaction Study, TBR; December 2016; [†] 768GB at GA; 128GB DIMMs available in the near future. Available prior to GA via special bid.

Featured Options

3.5-inch 10TB 7,200rpm SAS 12Gb Hot-Swap 512e HDD	Intel X550-T2 Dual-Port 10GBase-T Adapter	64GB TruDDR4 2666MHz (4Rx4 1.2V) LRDIMM
7XB7A00046	00MM860	7X77A01305
High-capacity drives for enterprise- class applications	Efficient 10Gb BaseT Ethernet controller using Broadcom's latest technology	Improve server performance and reliability with high-capacity TruDDR4 memory

Visit Options for more information.

For More Information

To learn more about the Lenovo ThinkSystem ST550, contact your Lenovo representative or Business Partner or visit **www.lenovo.com/thinksystem**. For detailed specifications consult the ST550 Product Guide.

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