

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 two powerful second-generation Intel® Xeon® Scalable family processors that deliver up to 36% total performance improvement over the previous generation*. The ST550 provides the performance and reliability you expect from the data center, but is optimized for office environments, with physical security and whisper-quiet operation.

Its compact footprint uses 37% less space than its predecessor, making it ideal for office locations and use for email/file/print and web serving, IT infrastructure, virtualization, VDI, and private cloud.

Flexible and Secure

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

ThinkSystem ST550 features unique security measures. Lenovo ThinkShield is a comprehensive end-to-end approach to security that begins with development and continues through supply chain and the full life cycle of the device.

From the data center to the edge of the network our priority is protecting your business with each product. 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 with continuous operation at standard 35°C and up to 45°C with configuration limitation.

Outstanding Performance

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 multiple GPUs—all at a lower price than previous generations.

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.

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Integrated IT Management

Lenovo 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. Lenovo servers continue to be the industry's #1 most reliable[‡].

Specifications

Form Factor/Height	4U rackable tower
Number of Processors	Up to 2 second-generation Intel® Xeon® Platinum processors, up to 125W
Memory	Up to 768GB in 12x DIMM slots using 64GB DIMMs; 2666 and 2933MHz TruDDR4
Expansion Slots	Up to 6x PCIe 3.0 (with 2x processors)
Drive Bays	Up to 16x 2.5" (including 4 NVMe) or 8x 3.5" bays; Plus up to 4x 2.5" and 2x internal M.2 boot
HBA/RAID Support	Software RAID (4x ports) standard; optional hardware RAID (up to 24x ports); up to 16-port HBAs
Security and Reliability Features	Lenovo ThinkShield, lockable security bezel, Kensington lock slot, chassis intrusion switch, TPM 1.2/2.0, Predict Failure Analysis, hot-swap/redundant drives, redundant PSUs
Network Interface	2x 1GbE ports standard; See ST550 product guide for more options
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, SUSE, Red Hat, VMware vSphere. Visit skywardtel.com for details.
Limited Warranty	1-year and 3-year customer replaceable unit and onsite service, next business day 9x5

