**ComX Computers**
Product Specification Sheet

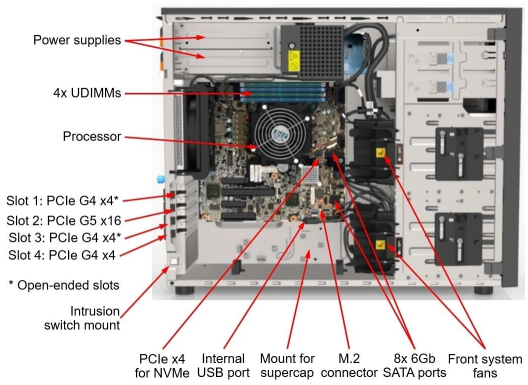
# 7DCLSP1E00

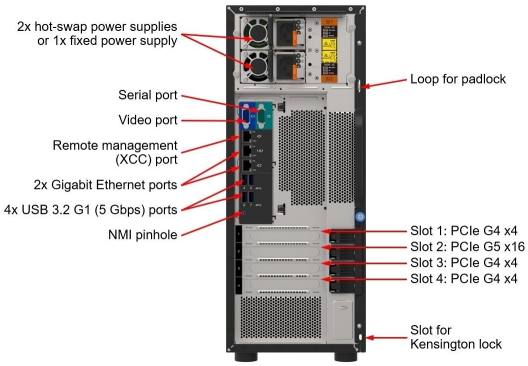
Lenovo ST250 V3 Tower Server, Xeon 6353P 5.1GHz, 32GB RAM, No SSD, No OS, 4x 3.5" bays

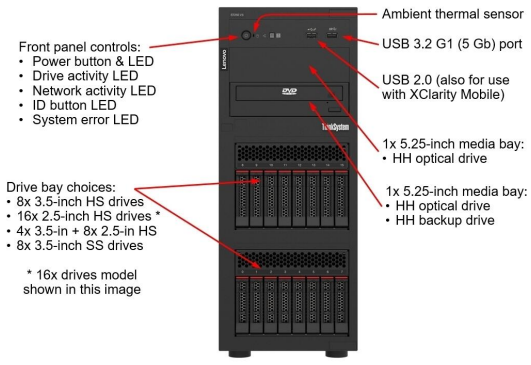
## Product Overview

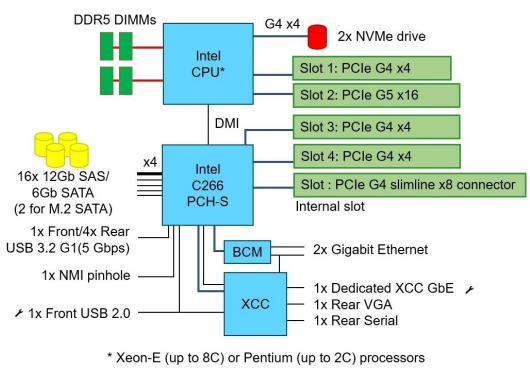
Lenovo ST250 V3 Tower Server, Intel Xeon 6353P 2.7GHz up to 5.4GHz 24MB Cache Eight 8 Core Processor with no intergrated Graphics, 1x32GB DDR5 RAM 2Rx8, No SSD, 4x 3.5" HS SAS/SATA open bay, 940-8i 4GB RAID controller, 2x 1GB Ethernet, HS 800W Titanium PSU, XCC2 Platinum, No DVD, 7DCLSP1E00





## Specifications

### Overview Summary:

The Lenovo ThinkSystem ST250 V3 Tower Server delivers reliable enterprise-class performance for small and medium businesses, remote offices and branch environments. Powered by an Intel Xeon 8 Core processor with DDR5 ECC memory, RAID storage support and flexible hot-swap drive options, it provides a dependable foundation for business applications and IT workloads.

Designed for efficient management and long-term reliability, this Lenovo server includes XClarity management, dual Gigabit Ethernet connectivity and a high-efficiency redundant power supply configuration. Shop now to buy the Lenovo ThinkSystem ST250 V3 Tower Server for your professional IT environment.

**Performance tier:**Enterprise entry-level

**Uses:**Business applications, file and data storage, virtualisation, database workloads, remote office infrastructure, server management, network services

### Overview:

**Lenovo ThinkSystem ST250 V3 Tower Server for Small and Medium Businesses**
The Lenovo ThinkSystem ST250 V3 is a powerful single-socket tower server designed for small and medium businesses, branch offices, remote locations, education environments, retail operations, and public sector applications. It combines enterprise-grade reliability with flexible storage, strong processing performance, and efficient management tools in a compact tower chassis that can also be converted for rack deployment.

Built around Intel Xeon processing technology, the ST250 V3 provides the performance and expandability required for business applications, virtualization, file services, databases, and other essential workloads. This configuration includes the Intel Xeon 6353P processor, 32GB DDR5 ECC memory, advanced RAID capability, dual Gigabit Ethernet connectivity, and a high-efficiency 800W Titanium power supply.

### Description:

The Lenovo ThinkSystem ST250 V3 Tower Server offers a reliable foundation for growing IT environments that require dependable performance, flexible storage options, and simplified server management. Powered by an Intel Xeon 6353P 8 Core processor running at 2.7GHz with Turbo Boost speeds up to 5.4GHz, this server is designed to handle demanding business workloads while maintaining efficient operation. The included 32GB DDR5 ECC memory helps improve stability and data integrity, while the Lenovo 940-8i 4GB RAID controller provides enhanced storage management and data protection capabilities. With support for SAS and SATA storage, PCIe expansion, XClarity management, and enterprise security features, the ST250 V3 is a versatile solution for businesses needing a dependable server platform.

### Features:

**Reliable Server Performance for Business Workloads**
The Lenovo ST250 V3 is engineered to deliver consistent performance for everyday business operations. The installed Intel Xeon 6353P processor provides strong multi-core processing power, making the server suitable for applications such as file sharing, business software, database workloads, virtualization, and remote office infrastructure.

Key hardware included in this configuration:

- Part Number / SKU: 7DCLSP1E00
- Processor: Intel Xeon 6353P 8 Core processor, 2.7GHz base speed, up to 5.4GHz Turbo Boost, 24MB cache

- Memory: 32GB DDR5-4800 ECC UDIMM 2Rx8
- Storage Support: Four 3.5 inch hot-swap SAS/SATA drive bays
- RAID Controller: Lenovo 940-8i 4GB RAID adapter
- Network Connectivity: Two integrated 1Gb Ethernet ports
- Power Supply: Hot-swap 800W Titanium PSU
- Management: Lenovo XClarity Controller 2 Platinum
- Optical Drive: No DVD drive included

**Flexible Storage and Expansion Options**

The ST250 V3 provides businesses with flexible storage configurations to support changing requirements. The server supports SAS and SATA hard drives and SSDs, allowing organisations to balance capacity, performance, and cost.

Storage capabilities include:

- Support for up to eight 3.5 inch hot-swap drive bays depending on configuration
- Support for SSDs to improve application response times and I/O performance
- Lenovo RAID controller options with 12Gb SAS connectivity
- Support for M.2 drives for operating system boot configurations
- PCIe expansion support for additional networking, storage, and accelerator cards

The included four 3.5 inch hot-swap drive bays provide convenient maintenance and upgrade options, allowing drives to be replaced without extended downtime when configured with compatible hardware.

**Enterprise Reliability and Easy Maintenance**

Designed for continuous business operation, the Lenovo ThinkSystem ST250 V3 includes reliability features that help minimise downtime and simplify maintenance. ECC memory protection helps prevent data corruption caused by memory errors, while RAID support provides improved storage resilience.

Additional reliability features include:

- 24/7 operational design for business environments
- Hot-swap drive support for easier maintenance
- Tool-less chassis access for faster upgrades and servicing
- Predictive failure alerts for storage, memory, temperature, and system components
- Built-in diagnostics through Lenovo XClarity Provisioning Manager
- Automatic restart after temporary power interruptions

**Advanced Server Management and Security**

The integrated Lenovo XClarity Controller 2 Platinum provides comprehensive monitoring and management capabilities. IT administrators can monitor system health, receive alerts, manage updates, and perform remote administration tasks to reduce maintenance time.

Security technologies include:

- Trusted Platform Module TPM 2.0 support for enhanced security
- Intel security technologies for improved protection against threats
- Secure boot capabilities with Intel Boot Guard
- Hardware-based protection features for sensitive workloads
- Physical security options including chassis lock support

**Efficient Power Management**

The Lenovo ST250 V3 is designed to reduce energy consumption while maintaining reliable performance. The included 800W Titanium power supply provides high efficiency, helping lower operational costs in business environments.

Energy-saving features include:

- High-efficiency Titanium rated power supply
- Intelligent processor power management
- DDR5 memory efficiency improvements
- Optimised airflow design for improved cooling performance
- Optional Lenovo XClarity Energy Manager for power monitoring and control

**Ideal Applications for the Lenovo ST250 V3**
The Lenovo ThinkSystem ST250 V3 is suitable for organisations that need a dependable entry-level enterprise server with room for future growth. Its compact tower design makes it ideal for locations where space, noise levels, and ease of management are important considerations.

Common uses include:

- Small business server deployments
- File and print services
- Virtualisation environments
- Database applications
- Remote office and branch office infrastructure
- Retail and education systems
- Business application hosting

**Lenovo ThinkSystem ST250 V3 Summary**
The Lenovo ThinkSystem ST250 V3 Tower Server delivers a strong balance of performance, expandability, security, and manageability for modern business environments. With an Intel Xeon 6353P processor, DDR5 ECC memory, RAID storage support, XClarity management, and flexible expansion options, it provides a reliable platform for organisations looking to build or upgrade their IT infrastructure.

## Specifications:

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| Specifications | |
|---|---|
| **Product Code** | 7DCLSP1E00 |
| **Standard specifications** | |
| **Components** | Specification |
| **Machine type** | 7DCF - 1 year warranty |
| | 7DCE - 3 year warranty |
| **Form factor** | Tower (can be installed in a rack with the available Rack Mount Kit) |
| **Processor** | One Intel processor. Choose from: |
| | Intel Xeon E-2400 Series processors ("Raptor Lake-E") up to to 8 cores, with core speeds up to 3.5 GHz |
| | Intel Pentium G7400 and G7400T processors ("Alder Lake-R") with 2 cores, with core speeds up to 3.7 GHz |
| **Chipset** | Intel Rocket Lake PCH-S, C266 |

| | |
|---|---|
| **Memory** | Four DIMM sockets supporting Lenovo TruDDR5 DIMMs at 4400 MHz (Xeon processors) or 4400 MHz (Pentium processors). Support ECC UDIMMs. |
| **Memory maximum** | Up to 128 GB using 4x 32 GB UDIMMs. |
| **Memory protection** | Error-correcting code (ECC) |
| **Disk drive bays** | Available configurations: |
| | 8x or 16x 2.5-inch SAS/SATA hot-swap drive bays |
| | 4x or 8x 3.5-inch SAS/SATA hot-swap drive bays |
| | Both 4x 3.5-inch and 8x 2.5-inch SAS/SATA hot-swap drive bays |
| | Up to 8x 3.5-inch simple-swap SATA drive bays |
| | 6x 3.5-inch simple-swap SATA drive bays + 2x 3.5-inch simple-swap NVMe drive bay |
| | In addition, the ST250 V3 supports two M.2 drives installed in an M.2 adapter which is installed in PCIe slot. |
| **Maximum internal storage** | 2.5-inch drives: |
| | 122.88TB using 16x 7.68TB 2.5-inch SATA SSDs |
| | 38.4TB using 16x 2.4TB 2.5-inch HS HDDs |
| | 3.5-inch drives: |
| | 176TB using 8x 22TB 3.5-inch SAS HS HDDs |
| | 61.4TB using 8x 7.68TB 3.5-inch SATA HS SSDs |
| | Intermix of SAS and SATA is supported. |
| **Storage controller** | Onboard 6 Gb SATA for simple-swap drive configurations, using Intel VROC SATA RAID, supporting RAID 0, 1, 10, 5, 50 |
| | 12 Gb SAS/SATA RAID adapters |
| | 12 Gb SAS/SATA host bus adapters |
| **Optical drive bays** | Two half-height 5.25-inch bays for optical or tape drives. Supports SATA DVD-ROM or DVD-RW (multiburner). Note: If the onboard SATA controller is used to connect the drive bays, then only 6 drives can be installed if an optical drive is installed. |
| **Tape drive bays** | Two half-height 5.25-inch bays for optical or tape drives. Support for one RDX drive. |
| **Network interfaces** | Two integrated Gigabit Ethernet 1000BASE-T ports (RJ-45) based on Broadcom BCM5720 embedded controller, one can be shared with XCC for systems management. Third dedicated Gigabit Ethernet port for XCC systems management. |
| **PCI Expansion slots** | Four PCIe slots (1x PCIe 5.0, 3x PCIe 4.0) as follows: |
| | Slot 1: PCIe G4 x4 (x4 slot, open-ended) 25W full-height half-length |
| | Slot 2: PCIe G5 x16 (x16 slot, closed-ended) 75W full-height half-length |
| | Slot 3: PCIe G4 x4 (x4 slot, open-ended) 25W full-height half-length |
| | Slot 4: PCIe G4 x4 (x8 slot, closed-ended) 25W full-height half-length |

| | |
|---|---|
| **Ports** | Front: |
| | One USB 3.2 G1 (5 Gb/s) port |
| | One USB 2.0 port (also for XClarity Mobile connectivity for local systems management) |
| | Rear: |
| | Four USB 3.2 G1 (5 Gb/s) ports |
| | One VGA video |
| | One RJ-45 systems management |
| | Two RJ-45 GbE network ports |
| | One serial port |
| | Internal: |
| | One internal USB 3.0 port for RDX drive |
| **Cooling** | Supports ASHRAE A2 environments. Certain configurations support ASHRAE A3. Two or three fixed system fans depending on the drive bay configuration. Additional fans attached to the processor heat sink and in the power supplies. |
| **Power supply** | Model dependent choices |
| | One fixed 300W power supply: 80 PLUS Platinum certified, ErP Lot 9 compliant |
| | One fixed 500W power supply: 80 PLUS Gold certified |
| | Two hot-swap 800W redundant power supplies, 80 PLUS Platinum certified, Energy Star and ErP Lot 9 compliant. |
| **Hot-swap parts** | Hard drives and 800W power supplies |
| **Systems management** | Operator panel with status LEDs. XClarity Controller2 (XCC2) embedded management, XClarity Administrator centralized infrastructure delivery, XClarity Integrator plugins, and XClarity Energy Manager centralized server power management. Optional XClarity Controller Advanced to enable remote control functions. |
| **Security features** | Power-on password, administrator's password, Trusted Platform Module, supporting TPM 2.0. Optional chassis intrusion switch. Padlock loop and Kensington cable slot and optional lockable front door for physical security. |
| **Video** | G200 graphics with 16 MB memory, integrated into the XClarity Controller. For use with local Administrator functions (not designed for workstation use). Maximum resolution is 1920x1200 32bpp at 60Hz. |
| **Operating systems supported** | Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware ESXi. See the Operating systems section for specifics. |
| **Dimensions** | Width: 176 mm (6.9 inches), Height: 444 mm (17.5 inches), Depth: 578 mm (22.8 inches). See Physical and electrical specifications for details. |
| **Weight** | Fully configured: 23.95 kg (52 lb) (3.5" config), or 15.81 kg (2.5" config) |

## Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

**Product page:**
**https://www.comx-computers.co.za/7DCLSP1E00-Lenovo-ST250-V3-Tower-Server-Xeon-6353P-5-1GHz-32GB-RAM-No-SSD-No-OS-4x-p-339091.php**

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