

Lenovo ThinkSystem ST50 V3 (7DF31001EA)

Lenovo ThinkSystem ST50 V3 7DF3 - Server - tower 5U - 1-way - 1 x Xeon 6315P / up to 5.2 GHz - RAM 16 GB - SSD 2 x 480 GB - Matrox G200 - Gigabit Ethernet - no OS - monitor: none



The Lenovo ThinkSystem ST50 V3 is designed for small and medium-sized businesses looking for a reliable server solution. This tower server has a compact form factor that allows for easy placement in office spaces while still offering robust capabilities. With the ability to support a Xeon processor and DDR5 SDRAM, the system is equipped to handle a variety of tasks and workloads efficiently. Designed with expandability in mind, the system allows for future enhancements. It is ENERGY STAR certified, emphasizing efficiency and energy savings. Security is also a priority, featuring a padlock loop and a Kensington security slot to protect valuable information and hardware.

Key Selling Points

- Compact tower form factor suitable for office environments
- Supports Intel Xeon processors for efficient performance
- Three internal bays and multiple PCIe slots for expansion
- Energy STAR certification for energy efficiency
- Padlock loop and Kensington security slot for enhanced protection

Product Features

- Expandable storage options**
The Lenovo ThinkSystem ST50 V3 comes with three internal bays that allow for easy installation of additional storage devices. This flexibility enables users to expand their storage capacity as needed, accommodating evolving data needs.
- Efficient power management**
With an 80 PLUS Gold certified power supply, this server ensures high energy efficiency, resulting in lower operational costs. The nominal voltage range of AC 120/230 V and compatibility with 50/60 Hz frequencies further enhance its usability.
- Robust security features**
The server is equipped with a Trusted Platform Module (TPM 2.0) security chip, which protects sensitive data from unauthorized access. Combined with physical protection features like a padlock loop and a Kensington security slot, users can ensure their data remains secure.
- Advanced networking capabilities**
Featuring two Gigabit Ethernet ports and support for Wake on LAN, the Lenovo ThinkSystem ST50 V3 offers advanced networking capabilities. This ensures reliable connectivity and efficient management of network resources.
- High-performance memory**
Equipped with 16 GB of unbuffered DDR5 SDRAM with a speed of 4400 MHz, the server is designed for high performance. The error-correcting code (ECC) technology ensures data integrity, making it suitable for critical applications.

Main specifications

Product Description	Lenovo ThinkSystem ST50 V3 - tower Xeon 6315P 2.8 GHz - 16 GB - SSD 2 x 480 GB
Type	Server - tower
Height (Rack Units)	5U
Localisation	Region: EMEA
Server Scalability	1-way
Processor	1 x Intel Xeon 6315P / 2.8 GHz (up to 5.2 GHz, (Quad-Core)
Processor Socket	LGA1700 Socket
Cache Memory	12 MB
Cache Per Processor	12 MB
RAM	16 GB (installed) / 128 GB (max) - DDR5 SDRAM - ECC
Storage Controller	SATA
Hard Drive	2 x SSD 480 GB - SATA
Optical Storage	No optical drive
Graphics Controller	Matrox G200
Video Memory	16 MB
Networking	1GbE
Power	(50/60 Hz)

OS Provided	No operating system
Dimensions (WxDxH)	17 cm x 31.5 cm x 37.6 cm
Weight	11.96 kg
Environmental Standards	ENERGY STAR Qualified EPEAT Bronze
Carbon Footprint	1354 kg carbon emissions
Manufacturer Warranty	Limited warranty - 3 years

Extended specification

General

Type	Server
Product Form Factor	Tower - 5U
Embedded Security	Trusted Platform Module (TPM 2.0) Security Chip
Server Scalability	1-way
Internal Bays Qty	3
Localisation	Region: EMEA

Expansion / Connectivity

Bays	3 (total) / 1 (free) x internal 3.5"
Slots	1 (total) / 1 (free) x PCIe 5.0 x16 - half-length, full-height ¦ 2 (total) / 2 (free) x PCIe 4.0 x4 - half-length, full-height
Interfaces	5 x USB 3.2 Gen 1 (1 front, 4 rear) ¦ 1 x VGA (1 rear) ¦ 1 x management (1 rear) ¦ 2 x LAN (Gigabit Ethernet) ¦ 1 x USB 2.0 (1 front) ¦ 1 x serial

Manufacturer Warranty

Service & Support	Limited warranty - 3 years
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RAM

Installed Size	16 GB (installed) / 128 GB (max)
Technology	DDR5 SDRAM - ECC
Effective Memory Speed	2200 MHz
Rated Memory Speed	2200 MHz
Form Factor	DIMM 288-pin
Slots	4 (Total) / 3 (empty)
Features	Unbuffered
Configuration Features	1 x 16 GB

Networking

Ethernet Ports	2 x Gigabit Ethernet
Ethernet Controller	Broadcom BCM5720
Data Link Protocol	Ethernet, Fast Ethernet, Gigabit Ethernet
Remote Management Controller	XClarity Controller 2 (XCC2) Standart
Features	Wake on LAN (WoL), Teaming support

Miscellaneous

Theft/Intrusion Protection	Security lock slot (cable lock sold separately), padlock loop
Security Slot Type	Kensington security slot
Compliant Standards	Energy-Related Products (ErP) Lot 9, NIST SP800-131A, NIST SP800-147B, NIST SP800-193, (EU) 2019/424, FIPS 140-2, ASHRAE Class A2, ISO 7779

Power

Device Type	Power supply
Voltage Required	AC 100-240 V (50/60 Hz)
Power Provided	500 watt
80 PLUS Certification	80 PLUS Gold

Environmental Parameters

Min Operating Temperature	10 °C
Max Operating Temperature	35 °C
Humidity Range Operating	8 - 80%

Storage Controller

Type	1 x SATA
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Cache Memory

Installed Size	12 MB
Cache Per Processor	12 MB

Optical Storage

Type	No optical drive
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Operating System / Software

OS Provided	No operating system
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Monitor

Monitor Type	None.
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Graphics Controller

Graphics Processor	Matrox G200
Video Memory	16 MB
Video Interfaces	VGA

Hard Drive

Type	SSD
Capacity	2 x 480 GB
Interface Type	SATA

Dimensions & Weight

Width	17 cm
Depth	31.5 cm
Height	37.6 cm
Weight	11.96 kg

Dimensions & Weight (Shipping)

Shipping Width	28 cm
Shipping Depth	42 cm
Shipping Height	54 cm

Processor / Chipset

CPU	Intel Xeon 6315P
Clock Speed	2.8 GHz
Max Turbo Speed	5.2 GHz
Number of Cores	Quad-Core
CPU Qty	1
Max CPU Qty	1
CPU Socket	LGA1700 Socket
Chipset Type	Intel C266

Sustainability Information

EPEAT Compliant	EPEAT Bronze
ENERGY STAR Certified	Yes
ENERGY STAR Version	4.0
Carbon Footprint	1354 kg carbon emissions
Total CF/unit Standard Deviation (kg CO2e)	779
PAIA Version	1.4.6

Product data is provided by CNET, we do not warrant the accuracy and completeness of the material contained in this data sheet