Servicing the Lenovo ThinkSystem ST50 server

ES71875 November 2018

Prerequisites

ES51780B - Servicing the Lenovo ThinkSystem storage controllers https://lenovoedu.lenovo.com/course/view.php?idnumber=ES51780B

Objectives

After completing the course, you will be able to:

- Describe the ThinkSystem ST50 server.
- Describe the server features and specifications.
- Identify the server diagram.
- Describe the problem determination procedures for ST50.



Product overview

Front, rear, inside view, product description

Lenovo ThinkSystem ST50 server product overview

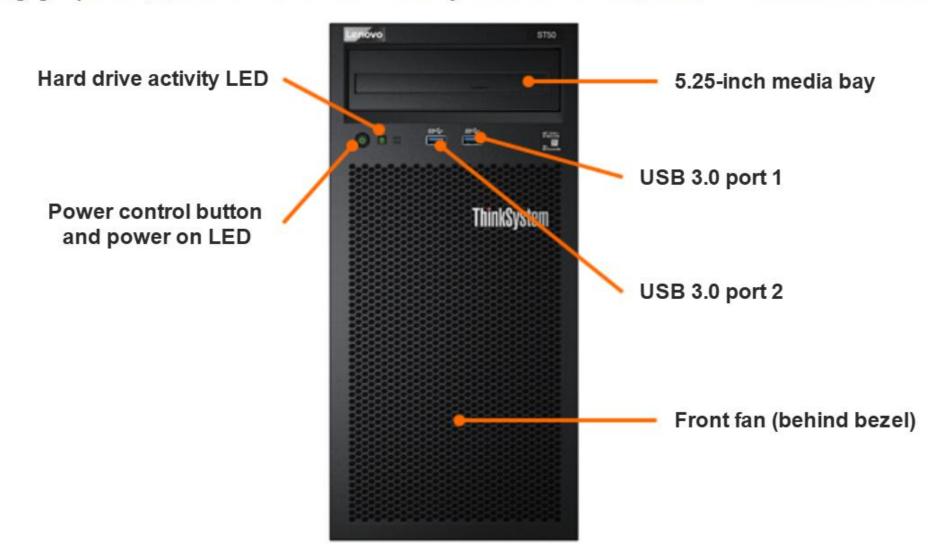
The ThinkSystem ST50 is a one-socket 4U tower server with Intel Xeon processors, up to six cores at 95W. It was designed to support small to medium sized businesses; file management, printing, email server, and web services. The ST50 supports limited configurations and provides the following features:

- Up to 64 GB in four UDIMM slots using 16 GB UDIMMs; 2666 MHz TruDDR4
- I/O expansion provides three PCle Gen3 slots (one PCle 3.0 x16, one PCle 3.0 x1, and one PCle 3.0 x4)
- Up to four 3.5-inch simple-swap drive bays; supports hybrid drive configuration with HDDs and SSDs
- The ST50 contains two machine types: 7Y49 (one-year warranty) and 7Y48 (three-year warranty) with model type CTO1WW



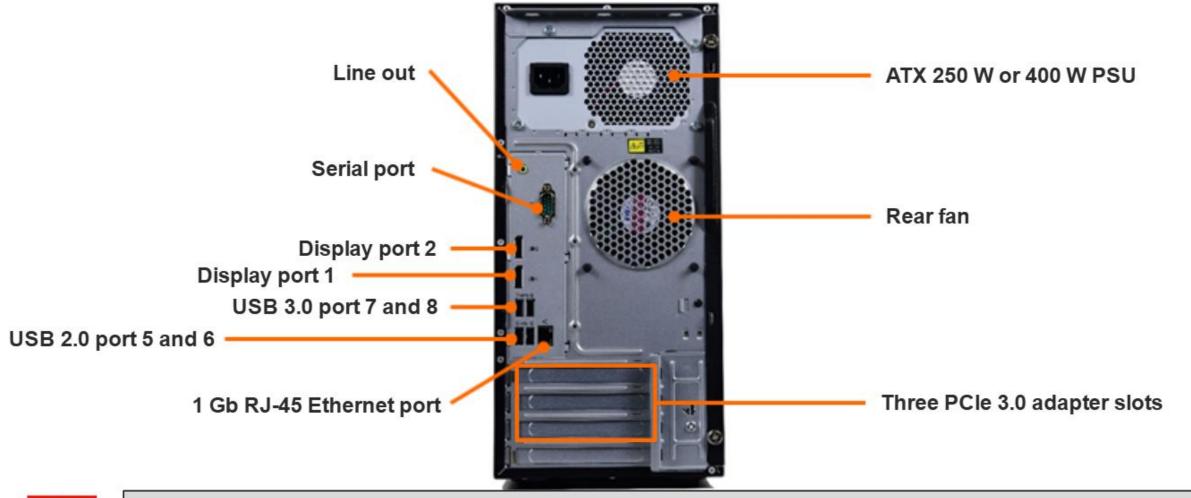
Front view

The following graphic shows the front of ThinkSystem ST50 with one 5.25-inch media bay.



Rear view

The following graphic shows the rear of ST50 with three PCIe slots and one fixed power supply.

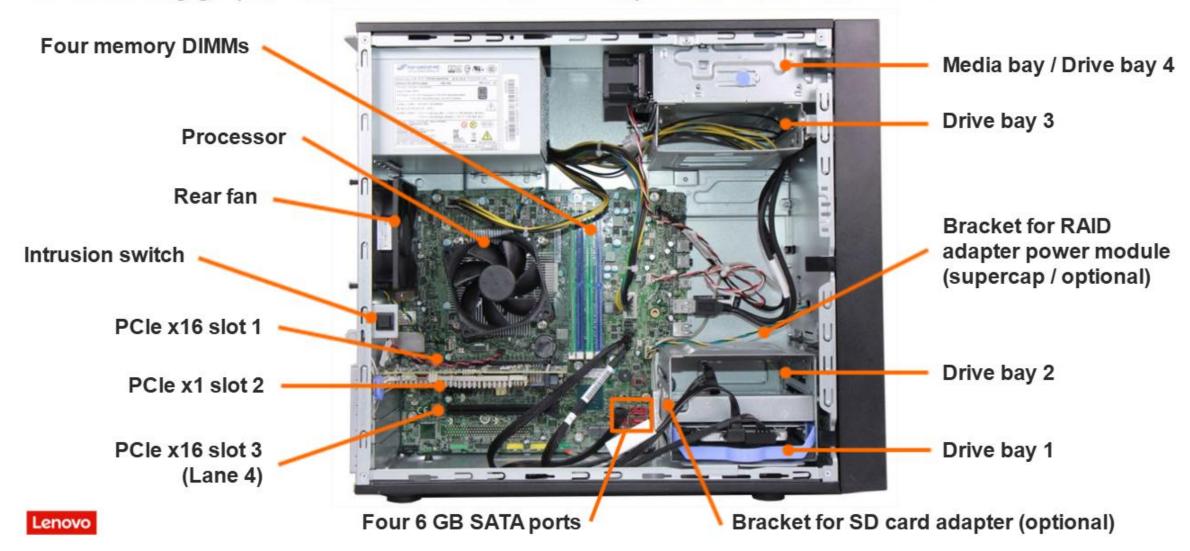


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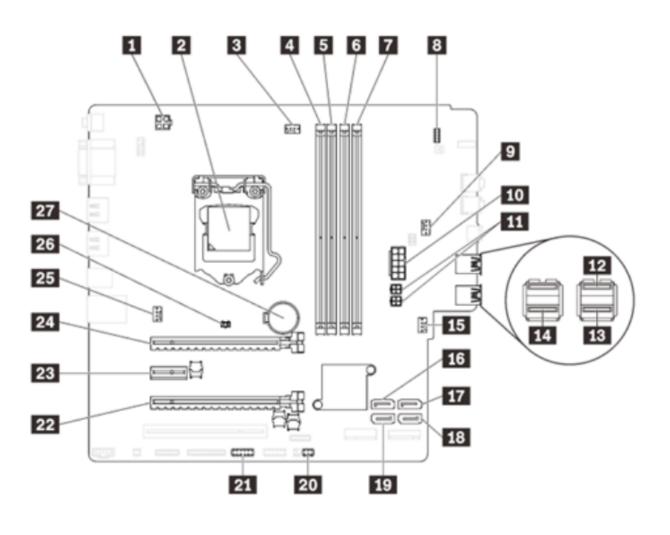
Note: There is a ThinkSystem ST50 DP to VGA Dongle Kit (4X97A12099) for DB-15 VGA port support.

Inside view

The following graphic shows the locations of components inside the ST50.



ThinkSystem ST50 system board components



Label / Component	
1 Processor power connector	15 Front fan power connector
2 Processor socket	16 SATA connector 3
3 Processor fan connector	17 SATA connector 4
4 DIMM slot 1	18 SATA connector 2
5 DIMM slot 2	19 SATA connector 1
6 DIMM slot 3	20 Thermal sensor connector
7 DIMM slot 4	21 USB connector for dual SD card adapter
8 Front panel connector	22 PCle slot 3
9 Drive bay 3 adapter fan power connector	23 PCle slot 2
10 System power connector	24 PCle slot 1
11 SATA power connector	25 Rear fan power connector
12 Front panel USB connector	26 Intrusion switch connector
13 Front panel USB connector	27 3 V CMOS battery(CR2032)
14 Slim optical drive USB connector	