ThinkSystem ST50 V2 system configurations and diagrams

Product features, technical specifications, and block diagram

ThinkSystem ST50 V2 features and specifications

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Features	ThinkSystem ST50 V2		
Form factor	Tower, with an optional 4U rack-mount kit		
Processor	One Intel® LGA 1151 Xeon-E or Pentium processor socket supporting processors with up to eight cores and a 95-watt TDP.		
Chipset	Intel C256 chipset		
Memory	Supports up to four DDR4 DIMM slots; 3200 MHz TruDDR4		
	Maximum memory 128 GB		
Storage	 Three drive bays supporting the following configurations: Bays 1 and 3 support 3.5-inch hard drives Bay 2 supports a 2.5-inch hard drive One M.2 2280 NVMe module One slim SATA ODD bay 		
GPU support (optional)	NVIDIA Quadro T1000 PCIe active GPU		
RAID support	Intel VROC 6.0 software RAID support		
	Hardware RAID adapter options:		
	T. 10 / 1050 01501 010/01T1 10 01 1 1		

Lenovo

Note: For more information about system specifications, refer to Lenovo Press.

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RAID support	Intel VROC 6.0 software RAID support
	Hardware RAID adapter options:
	ThinkSystem 4350-8i PCle SAS/SATA 12 Gb Adapter
	ThinkSystem RAID 5350-8i PCle SAS/SATA 12 Gb Adapter
Network interface	One 1 GbE RJ45 Ethernet port at the rear
PCle slots	• Slot 1: PCle 4.0 x16
	• Slot 2: PCle 3.0 x1
	Slot 3: PCle 3.0 x16 (four lanes)
Front I/O interface	One USB 3.2 Gen 2 Type-C port, two USB 3.2 Gen 1 ports, and two USB 3.2 Gen 2 ports
	One combo audio line out (for Microsoft client OS only)
Rear I/O interface	Four USB 3.2 Gen 1 ports
	Two Display Ports
	One serial port

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Internal storage features

The ThinkSystem ST50 V2 supports SATA drives only and the following limited internal storage adapters:

- PCH AHCI mode
- Intel VROC software RAID mode
- ThinkSystem 4350-8i SAS/SATA 12 Gb HBA
- ThinkSystem RAID 5350-8i PCIe 12 Gb Adapter

When drive bay 3 is selected, the rear system fan must be installed.

	Slot ID / Cable numbering		
	Drive bay 1	Drive bay 2	Drive bay 3
PCH – ACHI or VROC software RAID	1	2	3
Mini SAS to 4 SATA 7-pin cable	0	1	2
4350-8i no RAID configuration	1	2	3
5350-8i with RAID configuration	1	N/A	3

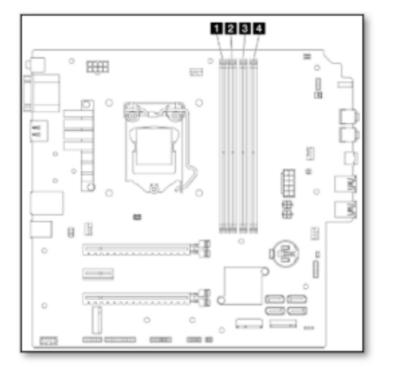


Note: For a complete list of supported hard drives, refer to Lenovo Press.

Memory features

The ThinkSystem ST50 V2 memory installation rules are as follows:

- All installed DIMMs must be of the same memory type and capacity
- The ThinkSystem ST50 V2 supports memory speeds of up to 3200 MT/s the figure will vary depending on the processor type
- Supported DIMMs installation sequence:

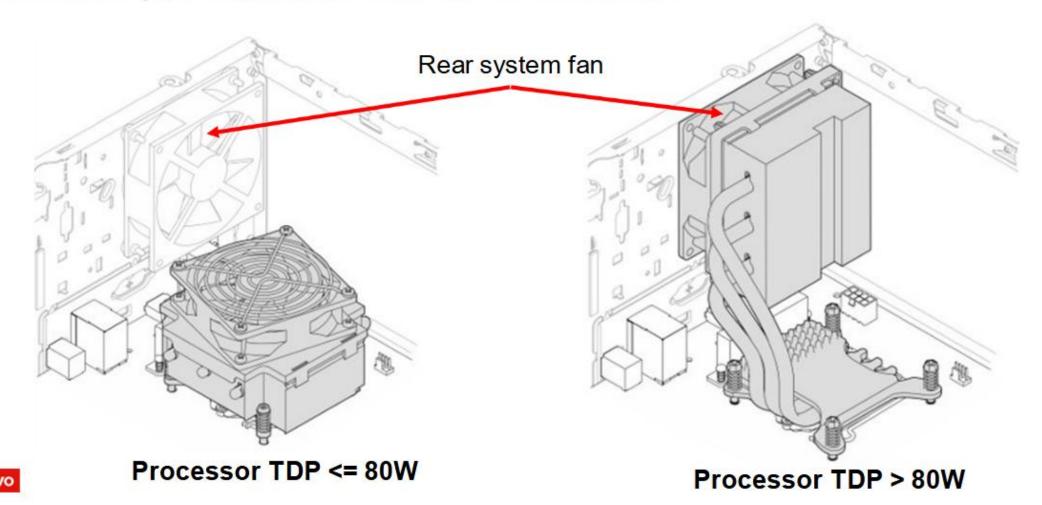


Total DIMMs	Memory Channel A		Memory	Channel B
	Slot 1	Slot 2	Slot 3	Slot 4
1	V			
2	V		V	
3	No support for three DIMMs			
4	V	V	V	V



Processor heat sink

The ThinkSystem ST50 V2 supports two types of heat sinks. If the processor has a TDP of more than 80 watts, the system will require a 95-watt heat sink. The 95-watt heat sink is installed on the processor and the rear side of the chassis.



ThinkSystem ST50 V2 block diagram

