

Smarter technology for all

# Servicing the ThinkSystem ST45 V3

ES72684

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Lenovo

# Prerequisites

- [ES42190 – Servicing the ThinkSystem 4350/5350/9350 RAID/HBA series adapters](#)

# Objectives

After completing the course, you will be able to:

- Describe the ThinkSystem ST45 V3 and its components
- List the ST45 V3 specifications
- Describe the ST45 V3 configurations and block diagrams
- Describe the ST45 V3 management tools
- Describe the problem determination steps and explain how to troubleshoot issues with the ST45 V3

# Product overview

Product description and front, rear, and inside views

**Lenovo**

## Product overview

The Lenovo ThinkSystem ST45 V3 (machine types: 7DH4 and 7DH5) is a one-socket tower server that supports the AMD EPYC 4004 series processors. It supports up to three 3.5-inch simple-swap drives, one 2.5-inch simple-swap drive, and up to two M.2 drives.

For more information about AMD EPYC 4004 series processors, refer to the [AMD website](#)

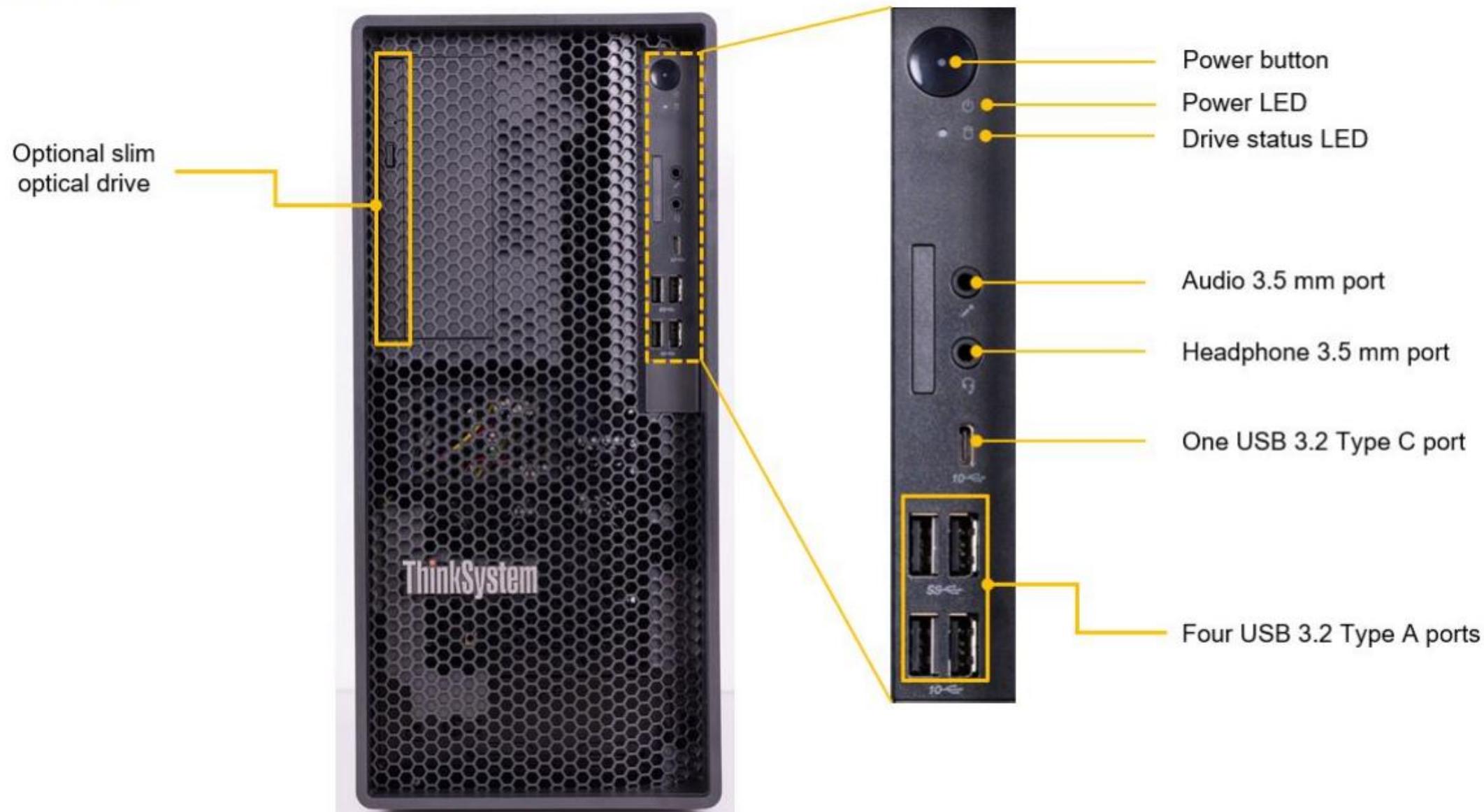


# Specifications

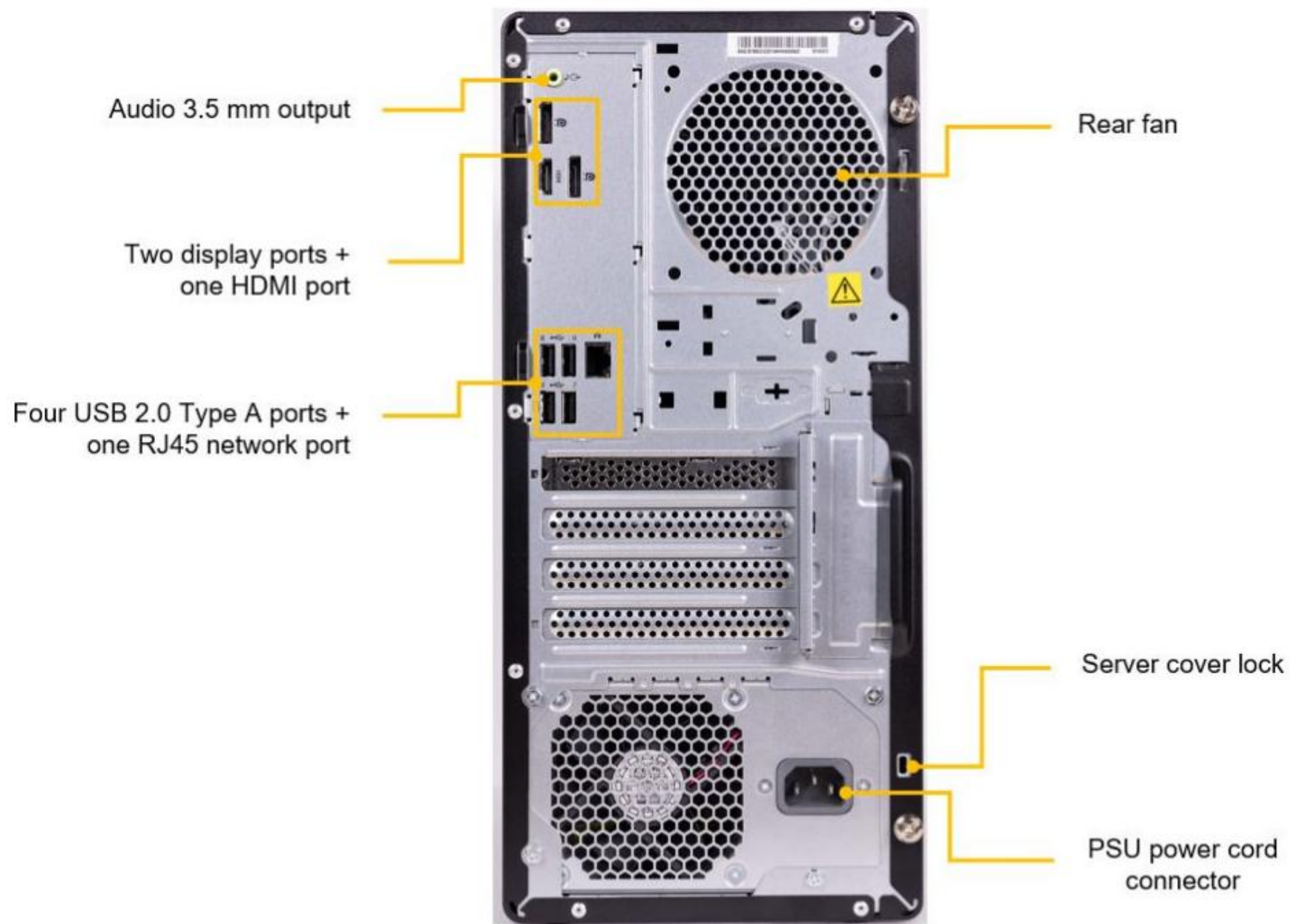
Features	Specifications
Form factor	17-liter tower
Processor	One AMD EPYC 4004 processor, up to 12 cores, 65 W
Memory	Up to two 32 GB DDR5 UDIMM 5200 MHz, 1 DPC (DIMM per channel)
Internal storage	<ul style="list-style-type: none"><li>Two 3.5-inch simple-swap drives, one 2.5-inch simple-swap drive, and one slim optical drive or three 3.5-inch simple-swap drives and one 2.5-inch simple-swap drive</li><li>Two M.2 PCIe 4.0 drives (does not support an M.2 RAID configuration)</li></ul>
I/O devices	<ul style="list-style-type: none"><li>Front: one USB 3.2 Type C port and four USB 3.2 Type A ports</li><li>Rear: four USB 2.0 Type A ports</li></ul>
PSU	One fixed PSU
Cooling	<ul style="list-style-type: none"><li>One simple-swap front fan</li><li>One simple-swap rear fan</li><li>One simple-swap heat sink and fan module for processor</li></ul>



# Front view

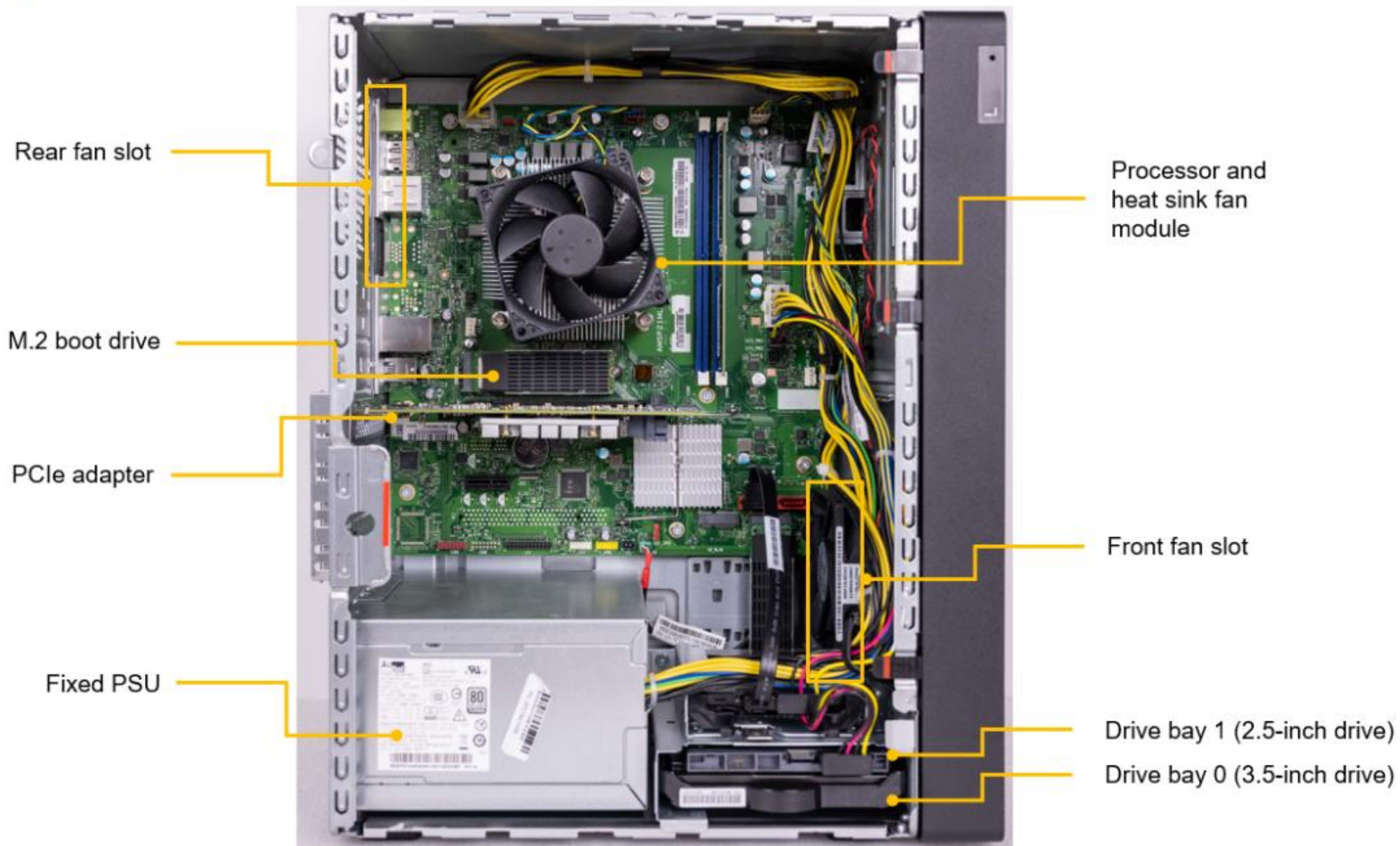


# Rear view

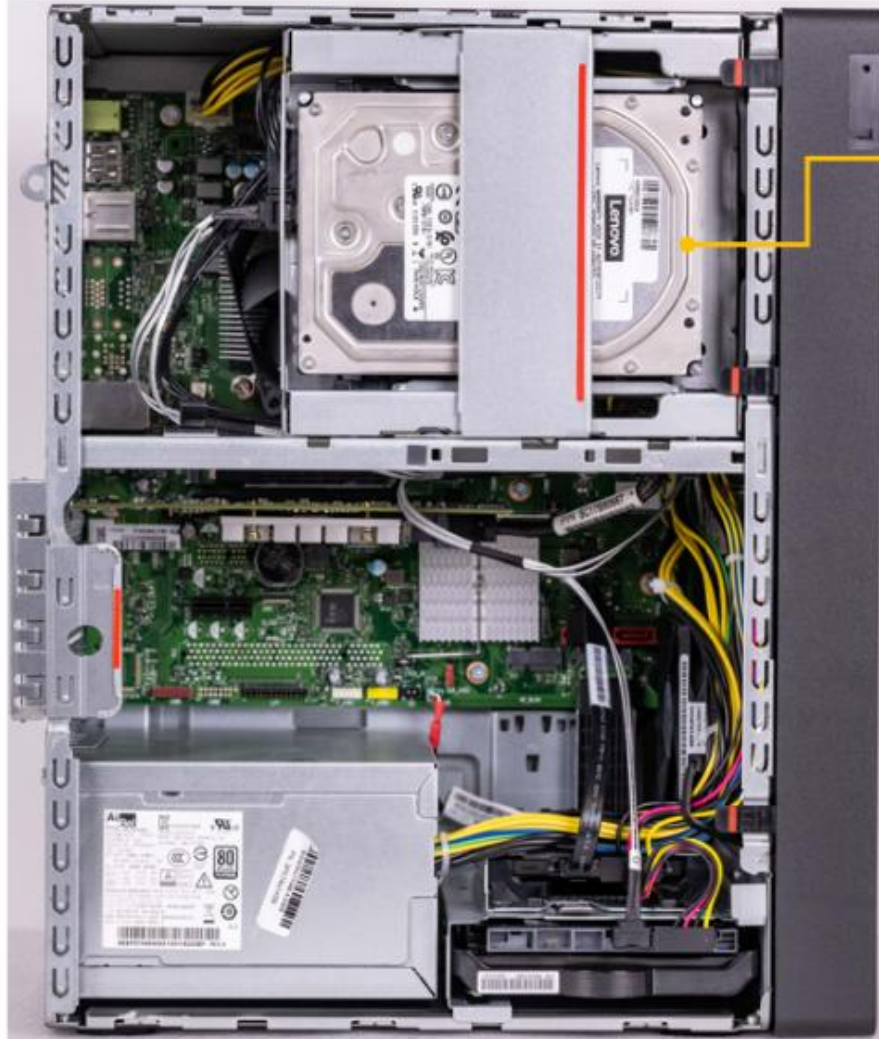




# Inside view



# Inside view with the bays 2 and 3 drive cage



Optional drive bays 2 and 3  
at the front and top of the system



Drive bay 3  
or  
slim optical  
drive

Drive bay 2

Drive bays 2 and 3 support a configuration with two  
simple-swap drives or a configuration with a slim optical  
drive and a simple-swap drive