

ThinkEdge SE450 specifications

Technical specifications



Specifications

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Model	ThinkEdge SE450
Machine type	7D8T
Form factor	2U rack server, 300 mm (11.8 inch) depth, with four FHHL adapters or 2U rack server, 360 mm (14.2 inch) depth, with four FHFL adapters
Mounting	<ul style="list-style-type: none">• Floor stand, DIN rail, or wall mount• Standard rack enclosure
Processor and chipset	<ul style="list-style-type: none">• One 3rd Generation Intel® Xeon® Platinum processor, up to 36 cores, up to 205-watt TDP<ul style="list-style-type: none">• TDP up to 165 watts at ASHRAE3 (1U heat sink)• TDP up to 205 watts at AHSRAE3 (2U heat sink)• Intel Lewisburg-R C621A
Drive bays	Internal drives: <ul style="list-style-type: none">• Two 2.5-inch (15 mm) SAS/SATA/NVMe or four 2.5-inch (7 mm) SATA/NVMe Front drives: <ul style="list-style-type: none">• Two 2.5-inch (15 mm) AnyBay Boot drive <ul style="list-style-type: none">• Two M.2 SATA/NVMe drives

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Memory	<ul style="list-style-type: none">• Eight channels per CPU, two 2DPC (two DIMMs per channel) and six 1DPC (one DIMM per channel)• 10 DDR4 memory slots for a maximum of 1 TB using eight 128 GB 3DS RDIMMs• Supports up to two Intel® Optane™ Persistent Memory 200 Series modules (PMems)
Expansion slots	<ul style="list-style-type: none">• Up to four PCIe 4.0 slots (four x16, or two x16 and two x8)• One OCP 3.0 slot
GPUs	Up to four single-width GPUs or two double-width (DW) full-length (FL) GPUs
Network interface	<ul style="list-style-type: none">• LOM adapter installed in the OCP 3.0 slot• PCIe adapters
Ports	Front: One power button with LED, one location button with LED, health with LED, one VGA, two USB 3.1, one serial port (optional), one RJ-45 1 Gb for dedicated management, one system locator LED, optional Wi-Fi (management)
Storage controller	<ul style="list-style-type: none">• Four Onboard SATA ports (Intel VROC SATA RAID, formerly known as Intel RSTe RAID)• Up to four Onboard NVMe ports (includes Intel VROC NVMe RAID, with optional license for non-Intel NVMe SSDs)• RAID adapters and HBAs currently not supported

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	USB 3.1, one serial port (optional), one RS-485 1-Gb for dedicated management, one system locator LED, optional Wi-Fi (management)
Storage controller	<ul style="list-style-type: none">• Four Onboard SATA ports (Intel VROC SATA RAID, formerly known as Intel RSTe RAID)• Up to four Onboard NVMe ports (includes Intel VROC NVMe RAID, with optional license for non-Intel NVMe SSDs)• RAID adapters and HBAs currently not supported
Power and cooling	<ul style="list-style-type: none">• Dual redundant ac power supplies (up to 1100 watts platinum) or dual redundant power supplies - 48 V dc 1100 watts• Six dual rotor fans
System management	Lenovo XClarity Controller
Operating systems	Microsoft Windows Server, Red Hat Enterprise Linux, Ubuntu, VMware ESXi. Refer to the OS Interoperability Guide for details.
Security	<ul style="list-style-type: none">• TPM 2.0• Intrusion detection• Bezel lock• Top cover lock