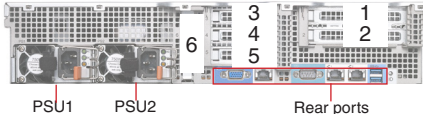


ThinkServer RD450 Platform Specifications

Product Specifications Reference (PSREF)

Components	Specification	Components	Specification	
Dimensions	2U rack. Height: 87 mm (3.4 in), width: 482 mm (19 in), depth: 764 mm (30 in)	Network interfaces	One dedicated management port, two Gigabit Ethernet ports. Supports optional discrete network adapters via PCIe slots	
Weight	Minimum configuration: 16 kg (35.3 lb), maximum: 27 kg (59.52 lb)	Security features	Power-on and administrator password. Optional TPM (TCG 1.2-compliant)	
Processor	Up to two 105W Intel Xeon E5-2600 v4 or E5-2600 v3 family processors.			
	E5-2660 v4	14C/2GHz/35MB/105W/DDR4-2400		
	E5-2650 v4	12C/2.2GHz/30MB/105W/DDR4-2400		
	E5-2640 v4	10C/2.4GHz/25MB/90W/DDR4-2133		
	E5-2630 v4	10C/2.2GHz/20MB/85W/DDR4-2133		
	E5-2623 v4	4C/2.6GHz/10MB/85W/DDR4-2133		
	E5-2620 v4	8C/2.1GHz/20MB/85W/DDR4-2133		
	E5-2609 v4	8C/1.7GHz/20MB/85W/DDR4-1866		
	E5-2603 v4	6C/1.7GHz/15MB/85W/DDR4-1866		
	E5-2650L v4	14C/1.7GHz/35MB/65W/DDR4-2400		
	E5-2630L v4	10C/1.8GHz/25MB/55W/DDR4-2133		
	E5-2660 v3	10C/2.6GHz/25MB/105W/DDR4-2133		
	E5-2650 v3	10C/2.3GHz/25MB/105W/DDR4-2133		
	E5-2640 v3	8C/2.6GHz/20MB/90W/DDR4-1866		
	E5-2630 v3	8C/2.4GHz/20MB/85W/DDR4-1866		
	E5-2623 v3	4C/3GHz/10MB/105W/DDR4-1866		
	E5-2620 v3	6C/2.4GHz/15MB/85W/DDR4-1866		
	E5-2609 v3	6C/1.9GHz/15MB/85W/DDR4-1600		
	E5-2603 v3	6C/1.6GHz/15MB/85W/DDR4-1600		
E5-2650L v3	12C/1.8GHz/30MB/65W/DDR4-2133			
E5-2630L v3	8C/1.8GHz/20MB/55W/DDR4-1866			
Chipset	Intel C610 Series Chipset			
Memory DIMMs	16 DIMM sockets with 8 channels. 4 channels per processor, 2 DIMMs per channel. RDIMM or LRDIMM (cannot be intermixed), DDR4, DDR4-2133 or DDR4-2400			
Memory capacity	512GB (RDIMM, 32GB x 16)/1024GB (LRDIMM, 64GB x 16), 2nd CPU is needed			
Memory protection	ECC, memory mirroring, lockstep, and memory sparing			
RAID controller	RAID controller	Drive type	RAID support	Compatible models
	Onboard RAID110i	6Gbs SATA	0/1/10, 5 with optional key	8x3.5" HS/ES, 8x2.5" HS
	RAID500 PCIe	6Gbs SAS/SATA	0/1/10, 5/50 with optional key	8x3.5" HS
	RAID520i PCIe	12Gbs SAS/SATA	0/1/10, 5/50 with optional key	8x3.5" HS/ES, 8x2.5" HS
	RAID710 PCIe (1GB memory)	6Gbs SAS/SATA	0/1/10/5/50/6/60	8x3.5" HS
	RAID720i PCIe	12Gbs SAS/SATA	0/1/10/5/50, 6/60 with optional cache	8x3.5" HS/ES, 8x2.5" HS
	AnyRAID 110i	6Gbs SATA	0/1/10, 5 with optional key	8x2.5" HS
	AnyRAID 510i	6Gbs SAS/SATA	0/1/10, 5/50 with optional key	8x2.5" HS
	AnyRAID 720i	12Gbs SAS/SATA	0/1/10/5/50, 6/60 with optional cache	8x2.5" HS
	AnyRAID 720ix	12Gbs SAS/SATA	0/1/10/5/50/6/60	16/24x2.5" HS, 8x2.5" HS+optional tape
Optional cache for RAID 710: CacheVault flash cache with super capacitor, CacheCade Pro, or FastPath. Optional cache for RAID 720/AnyRAID 720i and 720ix: 1GB read-only memory or 1GB/2GB/4GB flash with super capacitor. Flash options include CacheVault, CacheCade Pro, and FastPath. 720ix must have cache.				
Disk drive bays	Up to 8x3.5" hot-swap, 8x3.5" easy-swap, or 24x2.5" hot-swap disk bays on front. Up to one internal LTO-6 SAS tape drive on 8x2.5" and 720ix model, or external RDX tape drive via USB.			
Maximum internal storage	3.5" HS model: up to 64TB with 7.2K SATA or SAS HDD, up to 14.4TB with 10K SAS HDD, up to 4.8TB with 15K SAS HDD, or up to 12.8TB with SATA SSD. 3.5" ES model: up to 24TB with 7.2K SATA, up to 48TB with 7.2K SAS. 2.5" HS model: up to 48TB with 7.2K SATA HDD, up to 43.2TB with 10K SAS HDD, up to 14.4TB with 15K SAS HDD, or up to 38.4TB with SATA or SAS SSD			
SD module	Up to 2 SDHC flash cards via optional SD module, 8GB or 32GB each			
PCIe SSD adapter	Supports 1.6TB or 3.2TB SSD via PCIe adapter			
Optical drive	Optional one 9.5mm optical on 3.5" or 8/16 x 2.5" models, DVD-ROM or DVD±RW.			
		Expansion slots		
				
		PSU1	PSU2	Rear ports
Slot 1 (riser card 1)		PCIe 3.0 x8, half length, full height, CPU1		
Slot 2 (riser card 1)		PCIe 3.0 x8, half length, full height, CPU1		
Slot 3 (riser card 2)		PCIe 3.0 x8, low-profile, half length, CPU2, requires 2nd riser card and 2nd CPU		
Slot 4 (riser card 2)		PCIe 3.0 x8, low-profile, half length, CPU2, requires 2nd riser card and 2nd CPU		
Slot 5 (riser card 2)		PCIe 3.0 x8, low-profile, half length, CPU1, requires 2nd riser card		
Slot 6 (onboard)		PCIe 3.0 x16 (x8 elec), low-profile, half length, requires 2nd CPU		
For a list of all supported options, please see https://download.lenovo.com/pccbbs/options_iso/ocm_september_2016_thinkserver.xlsx				

For a list of all supported options, please see https://download.lenovo.com/pccbbs/options_iso/ocm_september_2016_thinkserver.xlsx sheet

Model	70QQ0001EA
Product	ThinkServer RD450
Region	EMEA
Machine Type	70QQ
TopSeller	TopSeller
Processor	1xE5-2609 v4 8C/1.7GHz/20MB/85W/DDR4-1866
2nd CPU	4XG0G89085
Memory	1x16GB RDIMM DDR4-2400 ECC
RAID Controller	520i (PCIe)
Disk Bays	8x3.5" HS
Storage	2x1TB HDD 7.2K 3.5" SATA6Gbs
Slots	2xFH HL
Optical	9.5mm DVD±RW
Add-on NIC	None
TPM	None
System Management	TSM
Operating System	None
Warranty	1-year
Power Supply	550Wx1 Platinum
Ann Date (mm/yy)	03/16





