

Components	Specification	Components	Specification
Dimensions	1U rack. Height: 43 mm (1.7 in), width: 482 mm (19 in), depth: 781.5 mm (30.77 in)	Operating systems supported	Microsoft Windows Server 2016/2012 R2/2012/2008 R2. Windows Small Business Server 2011. Red Hat Enterprise Linux 6.5/6.6/7. SUSE Linux Enterprise Server 11. VMware vSphere (ESXi) 5.1 P5/5.5 U2/6.0
Weight	Minimum configuration: 13 kg (28.66 lb), maximum: 19.1 kg (42.11 lb)	Base warranty	1 or 3-year limited onsite service with 9x5/NBD
	Up to two <b>105W Intel Xeon E5-2600 v4 or E5-2600 v3</b> family processors.	Power supply	Up to two redundant hot-swap 450W/550W/750W power supplies. 450 W is 80 PLUS Gold qualified. 550 W is 80 PLUS Platinum qualified. 750W is 80 PLUS Platinum or Titanium qualified. 750W Titanium is 200V - 240V, others are 110V - 240V.
Processor	E5-2660 v4 14C/2.0GHz/35MB/105W/DDR4-2400	Disk bay configuration	PSU requirements
	E5-2650 v4 12C/2.2GHz/30MB/105W/DDR4-2400	4x3.5"	450W 550W 750W
	E5-2640 v4 10C/2.4GHz/25MB/90W/DDR4-2133	8x2.5"	• • •
	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	Graphics	Onboard Aspeed AST2400 with 16MB memory, one DisplayPort on front, one VGA on rear.
Memory DIMMs	16 DIMM sockets. 4 channels per processor, 2 DIMMs per channel. <b>RDIMM or LRDIMM</b> (cannot be intermixed), DDR4-2133 or DDR4-2400	Front ports	Two USB 2.0. One DisplayPort (one VGA on E5-2600 v4 models instead)
Memory capacity	512GB (RDIMM, 32GB x 16)/1024GB (LRDIMM, 64GB x 16), 2nd CPU is needed	Rear ports	One VGA, two USB 3.0, one RJ-45 (dedicated mgmt), two ethernet, one serial (9-pin)
Memory protection	ECC, memory mirroring, lockstep, and memory sparing	Cooling	6 (5+1, dual processors) or 4 (3+1, single processor) fans, non-hot swap
RAID controller	RAID controller	Noise emissions	Operating: < 6.5 Bels. Idle: < 5.4 Bels (Maximum configuration)
	Drive type	Temperature - operating	50 °F to 95 °F (10 °C to 35 °C)
	RAID support	Temperature - non operating (no package)	-10 °C to 60 °C
	Compatible models	Temperature - non operating (with package)	-40 °C to 70 °C
	Onboard RAID110i 6Gbs SATA 0/1/10, 5 with optional key 4x3.5" HS/ES, 8x2.5" HS	Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)
	RAID500 PCIe 6Gbs SAS/SATA 0/1/10, 5/50 with optional key 4x3.5" HS, 8x2.5" HS	Humidity - operating	8%~90%, non-condensing
	RAID520i PCIe 12Gbs SAS/SATA 0/1/10, 5/50 with optional key 4x3.5" HS/ES, 8x2.5" HS	Humidity - storage (with package)	8%~90%, non-condensing
	RAID710 PCIe (1GB memory) 6Gbs SAS/SATA 0/1/10/5/50/6/60 4x3.5" HS, 8x2.5" HS		
	RAID720i PCIe 12Gbs SAS/SATA 0/1/10/5/50, 6/60 with optional cache 4x3.5" HS/ES, 8x2.5" HS		
	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	Note: RAID 50 and 60 are available on 8 x 2.5" models only.		
	Up to 4x3.5" hot-swap, 4x3.5" easy-swap, or 8x2.5" hot-swap disk bays on front. Supports external RDX tape drive via USB.		
Maximum internal storage	3.5" model: up to 32TB with 7.2K SATA or SAS HDD, up to 7.2TB with 10K SAS HDD, up to 2.4TB with 15K SAS HDD, or up to 6.4TB with SATA SSD.	Slot 1	PCIe 3.0 x16, half length, full height, by CPU1
	3.5" ES model: up to 12TB with 7.2K SATA, up to 24TB with 7.2K SAS.	Slot 2 for dual processors model	PCIe 3.0 x16, low-profile, half length, requires 2nd riser card and 2nd CPU
SD module	2.5" model: up to 16TB with 7.2K SATA HDD, up to 14.4TB with 10K SAS HDD, up to 4.8TB with 15K SAS HDD, or up to 12.8TB with SATA or SAS SSD	Slot 2 for single processor model	PCIe 3.0 x16 (x8 electrical), low-profile, half length, by CPU1, requires 2nd riser card
	Up to 2 SDHC flash cards via optional SD module, 8GB or 32GB each		
Optical drive	Optional one 9.5mm optical, DVD-ROM or DVD±RW.		
Network interfaces	One dedicated management port, two Gigabit Ethernet ports (RJ-45). Supports optional discrete network adapters via PCIe slots		
Security features	Power-on and administrator password. Optional TPM (TCG 1.2-compliant)		
Systems management	Supports ThinkServer System Manager (TSM), optional TSM Premium, UEFI. Onboard Aspeed AST2400 graphics/management processor, IPMI 2.0-compliant baseboard management controller (BMC). Control Panel LEDs shows the status of power, ID, network, system. Supports ThinkServer management software: Diagnostics, Deployment Manager, Energy Manager, System Manager, Partner Pack for VMware vCenter and Microsoft System Center Operations Manager, Power Planner		

For a list of all supported options, please see [https://download.lenovo.com/pccbbs/options\\_is0/ocm\\_september\\_2016\\_thinkserver.xlsx](https://download.lenovo.com/pccbbs/options_is0/ocm_september_2016_thinkserver.xlsx) sheet

<b>Model</b>		<b>70QK000QEA</b>
Product		ThinkServer RD350
Region		EMEA
Machine Type		70QK
TopSeller		TopSeller
Processor		1xE5-2609 v4 8C/1.7GHz/20MB/85W/DDR4-1866
2nd CPU		4XG0G89084
Memory		1x16GB RDIMM DDR4-2400 ECC
RAID Controller		720i PCIe+2GB Flash
Disk Bays		4x3.5" HS
Storage		Open
Slots		1xFHHL
Optical		9.5mm DVD±RW
Add-on NIC		None
TPM		None
System Management		TSM
Operating System		None
Warranty		3-year
Power Supply		450Wx1 Gold
Ann Date (mm/yy)		04/16



