

ThinkServer RD650 Platform Specifications

Components	Specification
Mechanical	<ul style="list-style-type: none"> • 2U rack • Height: 87 mm (3.4 in), width: 482 mm (19 in), depth: 764 mm (30 in) • Minimum configuration: 16 kg (35.3 lb), maximum: 32 kg (70.5 lb)
Chipset	Intel C612 Platform Controller Hub (PCH)
Processor	Up to two Intel Xeon E5-2600 v3 family processors with 18 cores up to 2.3GHz, 16 cores up to 2.3GHz, 14 cores up to 2.6GHz, 12 cores up to 2.6GHz, 10 cores up to 2.6GHz, 8 cores up to 3.2GHz, 6 cores up to 3.4GHz, 4 cores up to 3.5GHz. Two QPI link up to 9.6 GT/s. Up to 2133MHz memory speed. Up to 45MB cache
Memory DIMMs	24 DIMM sockets (12 DIMMs per processor), 8-channel capable (4-channel per processor). RDIMM and LRDIMM (cannot be intermixed), DDR4, up to 2133MHz
Memory capacity	384GB (RDIMM, 16GB x 24)/768GB (LRDIMM, 32GB x 24)
Memory protection	ECC, memory mirroring, lockstep, and memory sparing
RAID support	RAID 0, 1, 10 with RAID 110i , 6Gb/s SATA, optional key for RAID 5. RAID 0, 1, 10 with RAID 510i , 6Gb/s SAS/SATA, optional key for RAID 5, 50. RAID 0, 1, 10, 5, 50, 6, 60 with RAID 720i or 720ix , 12Gb/s SAS/SATA, optional 1GB memory or 1GB/2GB/4GB flash with super capacitor RAID 0, 1, 10, 5, 50, 6, 60 with LSI 9286CV-8e , 6Gb/s SAS/SATA, 1GB memory, CacheVault flash cache with super capacitor, optional CacheCade Pro or FastPath upgrade key
Disk drive bays	3.5" bay up to 12, or 2.5" bay up to 24, or mixed six 2.5" plus nine 3.5" bays. Supports optional 2 x 2.5" bays on rear
Optical drive	Up to one 9.5mm optical drive on 8 or 16 2.5" models
Tape drive bays	Up to one LTO-6 internal SAS tape drive on 8 x 2.5" models
Network interfaces	One dedicate/share management port. Supports optional discrete network adapters via PCIe or AnyFabric slots
Ports	Front: (For 2.5" models) Two USB 2.0, one DisplayPort. Rear: One DisplayPort, two USB 3.0, one RJ-45 (dedicate/share mgmt), one serial (9-pin).
Cooling	Six (5+1, dual processors) or four (3+1, single processor), hot-swap
Power supply	Up to two redundant hot-swap 550 W ac or 750 W ac or 1100 W ac or 1600 ac power supplies. 550 W, 1100 W, 1600 W are 80 PLUS Platinum qualified, 750 W is 80 PLUS Platinum or Titanium qualified
Graphics	Onboard Aspeed AST2400 with 16MB memory, one DisplayPort on front (for 2.5" models), one DisplayPort on rear; Maximum resolution: 1920x1200@60Hz
Hot-swap parts	Disk drives, power supplies, and fans
Systems management	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 Diagnostics, ThinkServer Deployment Manager, ThinkServer Energy Manager, ThinkServer System Manager CLI, Lenovo ThinkServer Partner Pack for VMware vCenter and Microsoft System Center Operations Manager, ThinkServer Power Planner. Optional ThinkServer System Manager (TSM) Premium for remote presence (graphics, keyboard and mouse, and virtual media)
Security features	Power-on and administrator password, optional Trusted Platform Module (TCG 1.2-compliant)
Operating systems supported	Microsoft Windows Server 2012 R2, 2012, and 2008 R2, Windows Small Business Server 2011, Red Hat Enterprise Linux 6.5, SUSE Linux Enterprise Server 11, VMware vSphere (ESXi) 5.5 U2
Declared noise emissions	Operating: < 6.5 Bels, Idle: < 6 Bels (Maximum configuration)
Limited warranty	1-year or 3-year limited onsite service. For more information and services upgrade options, please see: http://www.lenovo.com/services_warranty/us/en/lenovo-warranty.html

3.5": up to 12 bays



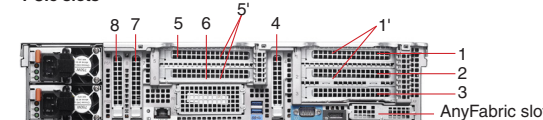
3.5"+2.5": 9 3.5" bay + 6 2.5" bay



2.5": up to 24 bays



PCIe slots*



* Supports up to 6 or 8 PCIe 3.0 slots. 3 slots (4, 7, 8) is onboard, other slots come with the optional riser cards. Up to two riser cards is optional and supported. Slot counts in configuration table above means these slots are available in this model:
 3 - Slot 4, 7, 8. 5 - Slot 1', 3, 4, 7, 8.
 6/6 - Slot 1', 3, 4, 5', 7, 8. 6/8 - Slot 1, 2, 3, 4, 7, 8.
 8 - Slot 1, 2, 3, 4, 5, 6, 7, 8

Expansion slots

- Slot 1: PCIe 3.0 x8; full height, half length, CPU 1, on riser card 1
- Slot 2: PCIe 3.0 x8; full height, half length, CPU 1, on riser card 1
- Slot 1': PCIe 3.0 x16, full height, full length, uses location of slot 1+2, CPU 1, on riser card 1, double-wide
- Slot 3: PCIe 3.0 x8; full height, half length, CPU 1, on riser card 1
- Slot 4: PCIe 3.0 x8; Low Profile, CPU 2, onboard
- Slot 5: PCIe 3.0 x8; full height, half length, CPU 2, on riser card 2
- Slot 6: PCIe 3.0 x8; full height, half length, CPU 2, on riser card 2
- Slot 5': PCIe 3.0 x16, full height, full length, uses location of slot 5+6, CPU 2, on riser card 1, double-wide
- Slot 7: PCIe 3.0 x8; Low Profile, CPU 2, onboard
- Slot 8: PCIe 3.0 x8; Low Profile, CPU 2, onboard

Core Options for ThinkServer RD650 (partial)

- 4X70F28590 ThinkServer 16GB DDR4-2133MHz (2Rx4) RDIMM
- 4X70F28591 ThinkServer 32GB DDR4-2133MHz (4Rx4) LRDIMM
- 4XB0G45719 ThinkServer Gen 5 3.5" 4TB 7.2K Enterprise SAS 6Gbps Hot Swap Hard Drive
- 4XB0F28714 ThinkServer Gen 5 3.5" 3TB 7.2K Enterprise SATA 6Gbps Hot Swap Hard Drive
- 4XB0G45715 ThinkServer Gen 5 3.5" 4TB 7.2K Enterprise SATA 6Gbps Hot Swap Hard Drive
- 4XB0G45737 ThinkServer 2.5" 240GB Value Read-Optimized SATA 6Gbps Hot Swap SSD
- 4XB0G45743 ThinkServer 3.5" 240GB Value Read-Optimized SATA 6Gbps Hot Swap SSD
- 4XF0G45881 ThinkServer 2U x8/x8/x8 PCIe Riser Kit
- 4X20F28576 ThinkServer Gen 5 750W Titanium Hot Swap Power Supply
- 4XF0G45867 ThinkServer System Manager Premium (TSM Premium)
- 4X90F92980 ThinkServer DisplayPort to VGA Dongle

RD650 Environment Specification

Temperature - operating	50 °F to 113 °F (10 °C to 45 °C)
Temperature - non operating (no package)	-10 °C to 60 °C
Temperature - non operating (with package)	-40 °C to 60 °C
Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)
Humidity - operating	20%~80%, non-condensing
Humidity - storage (with package)	8%~90%, non-condensing

ThinkServer RD650 TopSeller Model(s) - 70D0 (September 2014)

Type-model ¹	Processor	Memory	RAID controller	Disk bays	Disk drives	Discrete ethernet	SD module	Slots	Optical	TPM	System mgmt	Power	Preloaded OS	Warranty (-year, on-site)
70D00005EA	1xE5-2609 v3 6C/1.9GHz/15MB/85W/1600MHz	1x16GB 2133MHz RDIMM	720ix+1GB Flash	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	TPM	TSM	750Wx1 Platinum	Opt	3
70D00006EA	1xE5-2609 v3 6C/1.9GHz/15MB/85W/1600MHz	1x8GB 2133MHz RDIMM	720ix+1GB Flash	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	TPM	Opt	750Wx1 Platinum	Opt	3
70D0001CEA	1xE5-2603 v3 6C/1.6GHz/15MB/85W/1600MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001DEA	1xE5-2609 v3 6C/1.9GHz/15MB/85W/1600MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001EEA	1xE5-2620 v3 6C/2.4GHz/15MB/85W/1866MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001FEA	1xE5-2630L v3 8C/1.8GHz/20MB/55W/1866MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001GEA	1xE5-2630 v3 8C/2.4GHz/20MB/85W/1866MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001HEA	1xE5-2637 v3 4C/3.5GHz/15MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001JEA	1xE5-2640 v3 8C/2.6GHz/20MB/90W/1866MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001KEA	1xE5-2643 v3 6C/3.4GHz/20MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001LEA	1xE5-2650L v3 12C/1.8GHz/30MB/65W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001MEA	1xE5-2650 v3 10C/2.3GHz/25MB/105W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001NEA	1xE5-2660 v3 10C/2.6GHz/25MB/105W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001PEA	1xE5-2667 v3 8C/3.2GHz/20MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001QEA	1xE5-2670 v3 12C/2.3GHz/30MB/120W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001REA	1xE5-2680 v3 12C/2.5GHz/30MB/120W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001SEA	1xE5-2683 v3 14C/2GHz/35MB/120W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001TEA	1xE5-2690 v3 12C/2.6GHz/30MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001UEA	1xE5-2695 v3 14C/2.3GHz/35MB/120W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001VEA	1xE5-2697 v3 14C/2.6GHz/35MB/145W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001WEA	1xE5-2698 v3 16C/2.3GHz/40MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001XEA	1xE5-2699 v3 18C/2.3GHz/45MB/145W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D0001YEA	1xE5-2620 v3 6C/2.4GHz/15MB/85W/1866MHz	1x8GB 2133MHz RDIMM	720ix+1GB Flash	12x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D00020EA	1xE5-2609 v3 6C/1.9GHz/15MB/85W/1600MHz	1x8GB 2133MHz RDIMM	110i+key	6x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D00021EA	1xE5-2620 v3 6C/2.4GHz/15MB/85W/1866MHz	1x8GB 2133MHz RDIMM	110i+key	6x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D00022EA	1xE5-2640 v3 8C/2.6GHz/20MB/90W/1866MHz	1x8GB 2133MHz RDIMM	110i+key	6x3.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3

1. Models listed above might not be available in all EMEA countries

ThinkServer RD650 TopSeller Model(s) - 70D2 (September 2014)

Type-model ¹	Processor	Memory	RAID controller	Disk bays	Disk drives	Discrete ethernet	SD module	Slots	Optical	TPM	System mgmt	Power	Preloaded OS	Warranty (-year, on-site)
70D20007EA	1xE5-2609 v3 6C/1.9GHz/15MB/85W/1600MHz	1x32GB 2133MHz LRDIMM	720ix+1GB Flash	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	TPM	TSM	750Wx1 Platinum	Opt	3
70D20008EA	1xE5-2609 v3 6C/1.9GHz/15MB/85W/1600MHz	1x8GB 2133MHz RDIMM	720ix+2GB Flash	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	TPM	TSM	750Wx2 Platinum	Opt	3
70D20009EA	1xE5-2609 v3 6C/1.9GHz/15MB/85W/1600MHz	1x16GB 2133MHz RDIMM	720ix+2GB Flash	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	TPM	TSM	750Wx2 Platinum	Opt	3
70D2001DEA	1xE5-2603 v3 6C/1.6GHz/15MB/85W/1600MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D2001EEA	1xE5-2609 v3 6C/1.9GHz/15MB/85W/1600MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D2001FEA	1xE5-2620 v3 6C/2.4GHz/15MB/85W/1866MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D2001GEA	1xE5-2630L v3 8C/1.8GHz/20MB/55W/1866MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D2001HEA	1xE5-2630 v3 8C/2.4GHz/20MB/85W/1866MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D2001JEA	1xE5-2637 v3 4C/3.5GHz/15MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D2001KEA	1xE5-2640 v3 8C/2.6GHz/20MB/90W/1866MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D2001LEA	1xE5-2643 v3 6C/3.4GHz/20MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D2001MEA	1xE5-2650L v3 12C/1.8GHz/30MB/65W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D2001NEA	1xE5-2650 v3 10C/2.3GHz/25MB/105W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D2001PEA	1xE5-2660 v3 10C/2.6GHz/25MB/105W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D2001QEA	1xE5-2667 v3 8C/3.2GHz/20MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D2001REA	1xE5-2670 v3 12C/2.3GHz/30MB/120W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D2001SEA	1xE5-2680 v3 12C/2.5GHz/30MB/120W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D2001TEA	1xE5-2683 v3 14C/2GHz/35MB/120W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D2001UEA	1xE5-2685 v3 12C/2.6GHz/30MB/120W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D2001VEA	1xE5-2690 v3 12C/2.6GHz/30MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D2001WEA	1xE5-2695 v3 14C/2.3GHz/35MB/120W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D2001XEA	1xE5-2697 v3 14C/2.6GHz/35MB/145W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D2001YEA	1xE5-2698 v3 16C/2.3GHz/40MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D20020EA	1xE5-2699 v3 18C/2.3GHz/45MB/145W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	24x2.5" HS	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D20021EA	2xE5-2650 v3 10C/2.3GHz/25MB/105W/2133MHz	4x8GB 2133MHz RDIMM	720ix+2GB Flash	24x2.5" HS	Open	10GbEx2 SFP+	Opt	8/8	None	Opt	Opt	750Wx2 Platinum	Opt	3
70D20022EA	2xE5-2690 v3 12C/2.6GHz/30MB/135W/2133MHz	4x8GB 2133MHz RDIMM	720ix+2GB Flash	24x2.5" HS	Open	10GbEx2 SFP+	Opt	8/8	None	Opt	Opt	750Wx2 Platinum	Opt	3
70D20023EA	2xE5-2667 v3 8C/3.2GHz/20MB/135W/2133MHz	4x8GB 2133MHz RDIMM	720ix+2GB Flash	24x2.5" HS	Open	10GbEx2 SFP+	Opt	8/8	None	Opt	Opt	750Wx2 Platinum	Opt	3

1. Models listed above might not be available in all EMEA countries

ThinkServer RD650 TopSeller Model(s) - 70D4 (September 2014)

Type-model ¹	Processor	Memory	RAID controller	Disk bays	Disk drives	Discrete ethernet	SD module	Slots	Optical	TPM	System mgmt	Power	Preloaded OS	Warranty (-year, on-site)
70D40014EA	1xE5-2603 v3 6C/1.6GHz/15MB/85W/1600MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D40015EA	1xE5-2609 v3 6C/1.9GHz/15MB/85W/1600MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D40016EA	1xE5-2620 v3 6C/2.4GHz/15MB/85W/1866MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D40017EA	1xE5-2630L v3 8C/1.8GHz/20MB/55W/1866MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D40018EA	1xE5-2630 v3 8C/2.4GHz/20MB/85W/1866MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D40019EA	1xE5-2637 v3 4C/3.5GHz/15MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D4001AEA	1xE5-2640 v3 8C/2.6GHz/20MB/90W/1866MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D4001BEA	1xE5-2643 v3 6C/3.4GHz/20MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D4001CEA	1xE5-2650L v3 12C/1.8GHz/30MB/65W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D4001DEA	1xE5-2650 v3 10C/2.3GHz/25MB/105W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D4001EEA	1xE5-2660 v3 10C/2.6GHz/25MB/105W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D4001FEA	1xE5-2667 v3 8C/3.2GHz/20MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D4001GEA	1xE5-2670 v3 12C/2.3GHz/30MB/120W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D4001HEA	1xE5-2680 v3 12C/2.5GHz/30MB/120W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D4001JEA	1xE5-2683 v3 14C/2GHz/35MB/120W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D4001KEA	1xE5-2685 v3 12C/2.6GHz/30MB/120W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D4001LEA	1xE5-2690 v3 12C/2.6GHz/30MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D4001MEA	1xE5-2695 v3 14C/2.3GHz/35MB/120W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D4001NEA	1xE5-2697 v3 14C/2.6GHz/35MB/145W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D4001PEA	1xE5-2698 v3 16C/2.3GHz/40MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3
70D4001QEA	1xE5-2699 v3 18C/2.3GHz/45MB/145W/2133MHz	1x8GB 2133MHz RDIMM	720ix+1GB RAM	2.5"+3.5"	Open	10GbEx4 RJ45	Opt	6/8	None	Opt	Opt	750Wx1 Platinum	Opt	3

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ThinkServer RD650 TopSeller Model(s) - 70DR (September 2014)

Type-model ¹	Processor	Memory	RAID controller	Disk bays	Disk drives	Discrete ethernet	SD module	Slots	Optical	TPM	System mgmt	Power	Preloaded OS	Warranty (-year, on-site)
70DR001PEA	1xE5-2620 v3 6C/2.4GHz/15MB/85W/1866MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	DVDRW	Opt	Opt	750Wx1 Platinum	Opt	3
70DR001QEA	1xE5-2620 v3 6C/2.4GHz/15MB/85W/1866MHz	1x8GB 2133MHz RDIMM	720i+1GB RAM	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	DVDRW	Opt	Opt	750Wx1 Platinum	Opt	3
70DR001REA	1xE5-2640 v3 8C/2.6GHz/20MB/90W/1866MHz	1x8GB 2133MHz RDIMM	720i+1GB RAM	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	DVDRW	Opt	Opt	750Wx1 Platinum	Opt	3
70DR001SEA	1xE5-2630 v3 8C/2.4GHz/20MB/85W/1866MHz	1x8GB 2133MHz RDIMM	720i+1GB RAM	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	DVDRW	Opt	Opt	750Wx1 Platinum	Opt	3
70DR001TEA	1xE5-2620 v3 6C/2.4GHz/15MB/85W/1866MHz	2x8GB 2133MHz RDIMM	720i+1GB Flash	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	DVDRW	Opt	Opt	750Wx1 Platinum	Opt	3
70DR001UEA	1xE5-2630 v3 8C/2.4GHz/20MB/85W/1866MHz	2x8GB 2133MHz RDIMM	720i+1GB Flash	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	DVDRW	Opt	Opt	750Wx1 Platinum	Opt	3
70DR001VEA	1xE5-2640 v3 8C/2.6GHz/20MB/90W/1866MHz	2x8GB 2133MHz RDIMM	720i+1GB Flash	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	DVDRW	Opt	Opt	750Wx1 Platinum	Opt	3
70DR001WEA	1xE5-2683 v3 14C/2GHz/35MB/120W/2133MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR001XEA	1xE5-2630L v3 8C/1.8GHz/20MB/55W/1866MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR001YEA	1xE5-2699 v3 18C/2.3GHz/45MB/145W/2133MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR0020EA	1xE5-2697 v3 14C/2.6GHz/35MB/145W/2133MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR0021EA	1xE5-2685 v3 12C/2.6GHz/30MB/120W/2133MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR0022EA	1xE5-2660 v3 10C/2.6GHz/25MB/105W/2133MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR0023EA	1xE5-2630 v3 8C/2.4GHz/20MB/85W/1866MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR0024EA	1xE5-2603 v3 6C/1.6GHz/15MB/85W/1600MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR0025EA	1xE5-2698 v3 16C/2.3GHz/40MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR0026EA	1xE5-2670 v3 12C/2.3GHz/30MB/120W/2133MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR0027EA	1xE5-2643 v3 6C/3.4GHz/20MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR0028EA	1xE5-2667 v3 8C/3.2GHz/20MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR0029EA	1xE5-2637 v3 4C/3.5GHz/15MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR002AEA	1xE5-2690 v3 12C/2.6GHz/30MB/135W/2133MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR002BEA	1xE5-2609 v3 6C/1.9GHz/15MB/85W/1600MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR002CEA	1xE5-2650L v3 12C/1.8GHz/30MB/65W/2133MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR002DEA	1xE5-2680 v3 12C/2.5GHz/30MB/120W/2133MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR002EEA	1xE5-2640 v3 8C/2.6GHz/20MB/90W/1866MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR002FEA	1xE5-2620 v3 6C/2.4GHz/15MB/85W/1866MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR002GEA	1xE5-2695 v3 14C/2.3GHz/35MB/120W/2133MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3
70DR002HEA	1xE5-2650 v3 10C/2.3GHz/25MB/105W/2133MHz	1x8GB 2133MHz RDIMM	720i	8x2.5"	Open	10GbEx4 RJ45	Opt	6/8	Optional	Opt	Opt	750Wx1 Platinum	Opt	3

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