

Dell T440 Servers VS Lenovo ST550/580 Servers

Server Model		Dell PowerEdge T440 Tower Server	Lenovo ThinkSystem ST550 Tower Server	Lenovo ThinkSystem ST558 Tower Server
Advantages of Dell Servers		Balanced computing performance and storage needs	Support more memory, 8GB Raid cache, support larger capacity M.2	Support more memory, 8GB Raid cache
Disadvantages of Dell Servers		T440 doesn't support Platinum-level CPUs. Fewer GPUs are supported. Maximum supported hard disks are fewer. Fewer PCIe slots are supported. NVMe is not supported.		
CPU	Model	Intel® Xeon® Scalable Processor	Intel® Xeon® Bronze, Silver, Gold, or Platinum processors	Intel® Xeon® Scalable processors supporting up to two 125W
	High-level CPU Model	Intel® Xeon® Gold 5122 4C 105W	Intel® Xeon® Platinum 8156 4C	/
Chipset	Model	Intel C621	Intel C624	/
RAM	Model	16 × 64GB/2667MHz/LRDIMM	12 DDR4 DIMM slots, up to 2666MT / s	12 DDR4 DIMM slots, up to 2666MT / s
	Total capacity	1TB	Supports up to 1.5TB 2666Mhz TruDDR4 (single use 128GB DIMM)	1.5T

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Storage controller	Model	6Gbps SATA Controller: onboard SW RAID S140 12Gbps RAID Controller: RAID Controller H730P, 12Gb/s SAS, 6Gb/s SATA , 2GB DDR3 NV SDRAM, PCIe, support SAS/SATA/SSD; RAID Controller H740P, 12Gb/s SAS, 6Gb/s SATA , 8GB DDR4-2133 NV DRAM, PCIe, support SAS/SATA/SSD; RAID Controller H330, 12Gb/s SAS, 6Gb/s SATA, support SAS/SATA/SSD, no cache, PCIe Inside Controller: HBA330 12Gb/s SAS, 6Gb/s SATA, No Cache, No RAID, Pass through only Outside PERC (RAID): RAID Controller H840 RAID Controller H840, 2Gb/s SAS, 6Gb/s SATA, 8GB NV, PCIe, support SAS/SATA/SSD, 0/1/5/6/10/50/60 Outside HBA (Not RAID): 12 Gbps SAS HBA No Cache, No RAID, Pass through only	12Gbps RAID Controller: ThinkSystem RAID 530-8i PCIe 12Gb Adapter ThinkSystem RAID 730-8i 1GB Cache PCIe 12Gb Adapter ThinkSystem RAID 930-8i 2GB Flash PCIe 12Gb Adapter ThinkSystem RAID 930-16i 4GB Flash PCIe 12Gb Adapter ThinkSystem RAID 930-24i 4GB Flash PCIe 12Gb Adapter 12Gbps non-RAID HBA Card: ThinkSystem 430-8i SAS/SATA 12Gb HBA ThinkSystem 430-16i SAS/SATA 12Gb HBA NVMe PCIe interfaces (non-RAID) ThinkSystem 1610-4P NVMe Switch Adapter	/

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	Cache size / maximum	8GB	None, 1GB, 2GB, 4GB	/
	Cache protection type	/	None (530-8i, 730-8i), Flash backup (930-8i, 930-16i, 930-24i)	
	Battery or capacitor	Battery	Capacitance	/
	Main technical characteristics	Controller Chip: H730P (LSISAS 3108) , H740P (LSISAS 3508), H330 (LSI SAS3008) RAID Support: H730P (0/1/5/6/10/50/60), H740P (0/1/5/6/10/50/60), H330 (0/1/5/10/50), S140 (0/1/5/10)	Controller Chip: SAS3408 (530-8i), SAS3108 (730-8i), SAS3508 (930-8i, 930-24i), SAS3516 (930-16i), SAS3408 (430-8i), SAS3416 (430-16i) RAID Support: 530-8i (0\1\10\5\50), 730-8i (0\1\10\5\50), 930-8i (0\1\10\5\50\6\60), 930-16i (0\1\10\5\50\6\60), 930-24i (0\1\10\5\50\6\60)	/
SD Card	Number of SD cards	2	N/A	/
	SD card capacity	64GB	N/A	/
	SD cards can form RAID levels	1	N/A	/
M.2	M.2 Quantity	2	2	2

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	M. 2 single chip capacity	480GB	ThinkSystem M.2 CV1 32GB ThinkSystem M.2 CV3 128GB	/
	M.2 RAID levels	1	RAID0, RAID1	/
Network card	Daughter Card (LOM)	2 × 1GE	Standard with 2 × 1Gb ports	Standard with 2 × 1Gb ports
	PCIe (occupies a standard slot)	Yes	Optional 1GbE, 10Gb Base-T or SFP +. One dedicated 1GbE management port Gigabit Ethernet ThinkSystem NetXtreme PCIe 1Gb 2-Port RJ45 Ethernet Adapter By Broadcom ThinkSystem NetXtreme PCIe 1Gb 4-Port RJ45 Ethernet Adapter By Broadcom ThinkSystem I350-F1 PCIe 1Gb 1-Port SFP Ethernet Adapter By Intel ThinkSystem I350-T2 PCIe 1Gb 2-Port RJ45 Ethernet Adapter By Intel ThinkSystem I350-T4 PCIe 1Gb 4-Port RJ45 Ethernet Adapter By Intel 10 Gb Ethernet Intel X550-T1 Single Port 10GBase-T Adapter Intel X550-T2 Dual Port 10GBase-T Adapter ThinkSystem Broadcom NX-E PCIe 10Gb 2-Port Base-T Ethernet Adapter ThinkSystem X710-DA2 PCIe 10Gb 2-Port SFP+ Ethernet Adapter	Optional 1GbE, 10Gb Base-T or SFP +, one dedicated 1Gb management port

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GPU	Max Supported GPU	1	Support 2 GPUs, up to 250W per single	2
	GPU Model	NVIDIA NVS 310, Quadro P4000	NVIDIA Quadro P2000 5GB NVIDIA Quadro P6000 24GB	up to 250W per single
FPGA	Max Supported FPGA	0	N/A	N/A
	FPGA Model	No	N/A	N/A
Hard drive backplane	Type (including the maximum number of supported hard disks)	16 * 2.5" / 8 * 3.5 " hot plug	2.5-inch hot-swap hard drive configuration a. Eight 2.5"SAS / SATA b. Eight 2.5"SAS / SATA (4 slots support NVMe) c. 16 x 2.5"SAS / SATA d. 16 2.5"SAS / SATA (4 slots support NVMe) e. 20 2.5"SAS / SATA f. 20 2.5"SAS / SATA (4 slots support NVMe) 3.5-inch hot-swap hard drive configuration a. 4 x 3.5"SAS / SATA b. Eight 3.5"SAS / SATA c. 8 x 3.5"SAS / SATA + 4 x 2.5"SAS / SATA 3.5-inch simple-swap hard drive configuration a. 4 x 3.5"SATA b. Eight 3.5"SATA	2.5-inch hot-swap hard drive configuration a. 16 2.5"SAS / SATA b. 16 2.5"SAS / SATA (4 slots support NVMe) 3.5-inch hot-swap hard drive configuration b. Eight 3.5"SAS / SATA And 4 x 2.5"SATA in the optical drive bay

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	Support hard disk hot swap	Yes	Yes	Yes
Hard disk configuration	Model and quantity	SAS/SATA; 32*2.5"/18*3.5"	2.5-inch 12Gbps SAS hard disk: 300GB 15K, 600GB 15K, 900GB 15K 300GB 10K, 600GB 10K, 900GB 10K, 1.2TB 10K, 1.8TB 10K 3.5-inch 12Gbps SAS hard disk: 300GB 15K, 600GB 15K 2.5-inch 12Gbps NL-SAS hard drive: 1TB 7.2K, 2TB 7.2 3.5-inch 12Gbps NL-SAS hard drive: 1TB 7.2K, 2TB 7.2K, 4TB 7.2K, 6TB 7.2K, 10TB 7.2K 3.5-inch 6Gbps SATA hard drive: 1TB 7.2K, 2TB 7.2K, 4TB 7.2K, 6TB 7.2K, 8TB 7.2K, 10TB 7.2K 2.5-inch 6Gbps SATA hard drive: 1TB 7.2K, 2TB 7.2K 2.5-inch SSD hard drive: SAS Interface: PM1635a 400GB, PM1635a 800GB, PM1633a 3.84TB SATA Interface: PM863a 240GB, PM863a 480GB, Intel S3520 240GB, Intel S3520 480GB, NVMe PCIe Interface: U.2 PM963 1.92TB, U.2 PM963 3.84TB	/

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Chassis	Dimension (mm)	5U ,594.8mm depth	Tower: Height: 438 mm (17.2 in) Width (with stabilizer feet extended): 272 mm (10.7 in) Width (with stabilizer feet retracted): 176 mm (6.9 in) Depth: 670 mm (26.4 in) Rack Conversion Kit: Height: 176 mm (6.9 in) Width: 482 mm (18.97 in) Depth: 670 mm (26.4 in)	4U, 437.7 x 272 x 666.4 (With stand)
	Ventilation method	Air-cooled	Front and rear ventilation	/
Temperature	Operating temperature range (Celsius)	10° C to 35° C	ASHRAE Class A4: 5 ° C - 45 ° C (41 ° F - 113 ° F); for altitudes above 900 m (2,953 ft), decrease the maximum ambient temperature by 1 ° C for every 125-m (410-ft) increase in altitude ASHRAE Class A3: 5 ° C - 40 ° C (41 ° F - 104 ° F); for altitudes above 900 m (2,953 ft), decrease the maximum ambient temperature by 1 ° C for every 175-m (574-ft) increase in altitude ASHRAE Class A2: 10 ° C - 35 ° C (50 ° F - 95 ° F); for altitudes above 900 m (2,953 ft), decrease the maximum ambient temperature by 1 ° C for every 300-m (984-ft) increase in altitude	Operation at 45 degrees

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	Humidity range	10% to 80%	ASHRAE Class A4: 8% - 90% (non-condensing); maximum dew point: 24 ° C (75 ° F) ASHRAE Class A3: 8% - 85% (non-condensing); maximum dew point: 24 ° C (75 ° F) ASHRAE Class A2: 8% - 80% (non-condensing); maximum dew point: 21 ° C (70 ° F)	/
Hot-swappable power supplies	Nominal power of single power supply (W)	495W, 750W, 1100W hot-swappable platinum power supply; Gold 450W wired AC power supply; 750W Hot Swap Titanium Power Supply	One 450W (230V / 115V) 80plus Gold fixed power supply, Two hot-swappable 550W / 750W / 1100W platinum power supplies Two hot-swappable 750W titanium power supplies 2 (The server supports either a single fixed power supply or one or two hot-swap power supplies)	One 450W (230V / 115V) 80plus Gold fixed power supply, Two hot-swappable 550W / 750W / 1100W platinum power supplies Two hot-swappable 750W titanium power supplies
	Quantity	2	2 (The server supports either a single fixed power supply or one or two hot-swap power supplies)	/
	Dual power mode	Redundant fan	N+N	/
	Input	220V AC/48VDC/380HVDC/240HVDC	100 - 127 (nominal) V AC; 50 Hz / 60 Hz 200 - 240 (nominal) V AC; 50 Hz / 60 Hz	/

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PCI-E (I/O)	Quantity	5 PCIe G3 Slot1 x4 Slot2 x4 Slot3 x16 Slot4 x8 Slot5 x8	Supports up to 6 PCIe 3.0 slots Slot 1: PCIe 3.0 x8 (25W); full-height, half-length Slot 2: PCIe 3.0 x16 (75W); full-height, half-length Slot 3: PCIe 3.0 x16 (75W); full-height, full-length Slot 4: PCIe 3.0 x16 (x8 wired) (25W); full-height, full-length (requires second processor) Slot 5: PCIe 3.0 x16 (75W); full-height, full-length (requires second processor) Slot 6: PCIe 3.0 x8 (x4 wired) (25W); full-height, full-length	Supports up to 6 PCIe 3.0 slots
USB	Quantity	9	Total 7 USB ports Front panel: Two USB ports (one USB 3.0, one USB 2.0 port) Rear panel: Four USB ports (four USB 2.0, two USB 3.0) Internal: One internal USB 3.0 port for RDX drive	/
Out-of-band management	Yes or No	Yes	Yes	/

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	Main Functions	Compliant with IPMI 2.0 IDrac9 (Express Edition, Enterprise Edition) with Lifecycle Controller	XClarity Controller (XCC) Standard, Advanced, Enterprise Standard features are included by default and can be upgraded to Advanced or Enterprise via Features on Demand (FoD) Support mobile management function (Xclarity Mobile App + front USB interface connection), Mobile App supports Android or iOS	XClarity Administrator centralized infrastructure delivery; XClarity Controller (embedded hardware); XClarity integrator plug-in; XClarity Energy Manager centralized server power management
Energy management	Yes or No	Yes	Yes, Lenovo XClarity Energy Manager	Yes, Lenovo XClarity Energy Manager
	System cooling fan	Air baffle, vector heat dissipation	4 hot-swappable fans, 2 with 1 CPU, 3 with 2 CPUs, 4 fans for N + 1 redundancy	/
LCD Screen	Yes or No	Optional	N / A, using Light path diagnostics	/
Host front panel with keyhole and key	Yes or No	Yes	Support, optional lock panel (ThinkSystem 1U Security Bezel), anti-theft keyhole, chassis intrusion switch	Support, optional lock panel (ThinkSystem 1U Security Bezel), anti-theft keyhole, chassis intrusion switch

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