

ThinkSystem ST550 7X10A04GLA

Region

LA

Machine Type

7X10

TopSeller

TopSeller

Processor

1x Xeon Silver 4108
8C/1.8GHz/11MB/85W/DDR4-2400

Memory

1x 16GB RDIMM DDR4-2666

Storage Controller

1x 930-8i 2GB Flash

Chassis

8x 3.5"

Disk Bays

8x 3.5" SATA/SAS HS

Disks

2x 2TB HDD 7.2K 3.5" SAS12Gbps

M.2 Drives

None

Optical

HH DVD±RW

GPU

None

Networking (PCIe)

None

Security

Chassis Intrusion Switch/TPM 1.2

System Management

XClarity Advanced

Power Supply

2x 750W Platinum

Warranty

3-year

Ann Date (mm/yy)

07/17

Note:

Country Code "US" is for United States, "++" is for EMEA countries (e.g. AD - Saudi, Arabia, AT - Austria, BM - Bulgaria, etc.), "xx" is for EAST countries (e.g. BM - Bulgaria, CX - Hungary, CY - Cyprus, etc.), and "***" is for MEA countries (e.g. AD - Saudi, Arabia, ED - Egypt, EQ - Sweden, etc.). Please be aware that the EMEA/ EAST/MEA models listed above might not be available in all countries



www.lenovo.com

This publication was developed for products and services offered in the United States and E.M.E.A countries. Lenovo may not offer the products, services or features discussed in this document in other countries. Lenovo may withdraw an offering at any time. Information is subject to change without notice. Consult your local representative for information on offerings available in your area. Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors. Lenovo provides this publication "as is" without warranty of any kind, either express or implied, including the implied warranties of merchantability or fitness for a particular purpose.



<http://psref.lenovo.com>

Visit psref website for the latest version of Product Specifications Reference.

© Lenovo, 2017. All rights reserved.



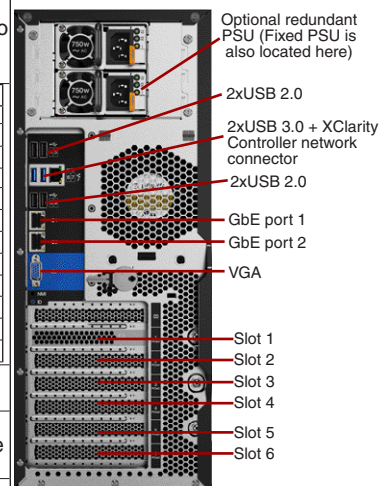
Lenovo

ThinkSystem ST550 Platform Specifications

Product Specifications Reference (PSREF)

Components	Specification																																																																																																						
Form factor	Tower or 4U rack																																																																																																						
Dimensions	Without foot stands and security door: Height: 425.5 mm (16.8 in). Width: 175.8 mm (6.92 in). Depth: 666.4 mm (26.24 in)																																																																																																						
Weight	Maximum configuration: 81.35 lb (36.9 kg)																																																																																																						
Processor	Up to two 125W Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum. Up to 20 cores at 2.0GHz, up to 3.6GHz with 4 cores. Two processors are connected with two UPI (Ultra Path Interconnect) links up to 10.4GT/s																																																																																																						
Chipset	Intel C621 Platform Controller Hub																																																																																																						
Memory	Up to 12 DIMM sockets. Each processor supports up to 6 DIMM sockets with 6 channels. DDR4-2666. RDIMMs and LRDIMMs are supported, but memory types cannot be intermixed																																																																																																						
Memory capacity	With RDIMMs: Up to 384GB with 12 x 32 GB RDIMMs and two processors With LRDIMMs: Up to 768GB with 12 x 64 GB LRDIMMs and two processors																																																																																																						
Memory protection	ECC, memory mirroring, and memory sparing																																																																																																						
Storage controllers	Supports the following RAID/HBA adapters:																																																																																																						
	<table><tr><th></th><th>RAID adapter</th><th>Interface</th><th>Drive type</th><th>RAID levels</th><th>JBOD</th><th>Cache</th><th>Cache protection</th><th>FastPath</th><th>Max qty</th></tr><tr><td rowspan="3">For SS bays</td><td>Onboard SATA</td><td>6Gbps SATA</td><td>SATA</td><td>0/1/10/5</td><td>Yes</td><td>None</td><td>None</td><td>No</td><td>-</td></tr><tr><td>530-8i</td><td>12Gbps SAS</td><td>SATA/SAS</td><td>0/1/10/5/50</td><td>Yes</td><td>None</td><td>None</td><td>Yes</td><td>2</td></tr><tr><td>730-8i</td><td>12Gbps SAS</td><td>SATA/SAS</td><td>0/1/10/5/50</td><td>Yes</td><td>1GB</td><td>None</td><td>No</td><td>2</td></tr><tr><td rowspan="7">For HS bays</td><td>930-8i</td><td>12Gbps SAS</td><td>SATA/SAS</td><td>0/1/10/5/50/6/60</td><td>Yes</td><td>2GB</td><td>Flash backup</td><td>Yes</td><td>2</td></tr><tr><td>930-16i</td><td>12Gbps SAS</td><td>SATA/SAS</td><td>0/1/10/5/50/6/60</td><td>Yes</td><td>4GB</td><td>Flash backup</td><td>Yes</td><td>1</td></tr><tr><td>930-24i</td><td>12Gbps SAS</td><td>SATA/SAS</td><td>0/1/10/5/50/6/60</td><td>Yes</td><td>4GB</td><td>Flash backup</td><td>Yes</td><td>1</td></tr><tr><td>430-8i</td><td>12Gbps SAS</td><td>SATA/SAS</td><td>-</td><td>Yes</td><td>None</td><td>None</td><td>-</td><td>2</td></tr><tr><td>430-16i</td><td>12Gbps SAS</td><td>SATA/SAS</td><td>-</td><td>Yes</td><td>None</td><td>None</td><td>-</td><td>1</td></tr><tr><td>430-8e</td><td>12Gbps SAS</td><td>SATA/SAS</td><td>-</td><td>Yes</td><td>None</td><td>None</td><td>-</td><td>6</td></tr><tr><td>930-8e</td><td>12Gbps SAS</td><td>SATA/SAS</td><td>0/1/10/5/50/6/60</td><td>Yes</td><td>4GB</td><td>Flash backup</td><td>Yes</td><td>6</td></tr></table>		RAID adapter	Interface	Drive type	RAID levels	JBOD	Cache	Cache protection	FastPath	Max qty	For SS bays	Onboard SATA	6Gbps SATA	SATA	0/1/10/5	Yes	None	None	No	-	530-8i	12Gbps SAS	SATA/SAS	0/1/10/5/50	Yes	None	None	Yes	2	730-8i	12Gbps SAS	SATA/SAS	0/1/10/5/50	Yes	1GB	None	No	2	For HS bays	930-8i	12Gbps SAS	SATA/SAS	0/1/10/5/50/6/60	Yes	2GB	Flash backup	Yes	2	930-16i	12Gbps SAS	SATA/SAS	0/1/10/5/50/6/60	Yes	4GB	Flash backup	Yes	1	930-24i	12Gbps SAS	SATA/SAS	0/1/10/5/50/6/60	Yes	4GB	Flash backup	Yes	1	430-8i	12Gbps SAS	SATA/SAS	-	Yes	None	None	-	2	430-16i	12Gbps SAS	SATA/SAS	-	Yes	None	None	-	1	430-8e	12Gbps SAS	SATA/SAS	-	Yes	None	None	-	6	930-8e	12Gbps SAS	SATA/SAS	0/1/10/5/50/6/60	Yes	4GB	Flash backup	Yes	6
		RAID adapter	Interface	Drive type	RAID levels	JBOD	Cache	Cache protection	FastPath	Max qty																																																																																													
	For SS bays	Onboard SATA	6Gbps SATA	SATA	0/1/10/5	Yes	None	None	No	-																																																																																													
		530-8i	12Gbps SAS	SATA/SAS	0/1/10/5/50	Yes	None	None	Yes	2																																																																																													
		730-8i	12Gbps SAS	SATA/SAS	0/1/10/5/50	Yes	1GB	None	No	2																																																																																													
	For HS bays	930-8i	12Gbps SAS	SATA/SAS	0/1/10/5/50/6/60	Yes	2GB	Flash backup	Yes	2																																																																																													
		930-16i	12Gbps SAS	SATA/SAS	0/1/10/5/50/6/60	Yes	4GB	Flash backup	Yes	1																																																																																													
		930-24i	12Gbps SAS	SATA/SAS	0/1/10/5/50/6/60	Yes	4GB	Flash backup	Yes	1																																																																																													
		430-8i	12Gbps SAS	SATA/SAS	-	Yes	None	None	-	2																																																																																													
430-16i		12Gbps SAS	SATA/SAS	-	Yes	None	None	-	1																																																																																														
430-8e		12Gbps SAS	SATA/SAS	-	Yes	None	None	-	6																																																																																														
930-8e		12Gbps SAS	SATA/SAS	0/1/10/5/50/6/60	Yes	4GB	Flash backup	Yes	6																																																																																														
<i>Note: 730-8i is available in China only. All RAID/HBA adapters should be placed in slot 1 firstly.</i>																																																																																																							
Disk drive bays	Supports 4 or 8 front 3.5" SATA simple-swap bays. Or 4 or 8 front 3.5" SATA/SAS HS bays. Or 8 or 16 front 2.5" SATA/SAS HS bays with maximum 4 AnyBay. Optional 4 front 2.5" HS bays are supported on hot-swap models, takes place in two 5.25" bays location Optional one or two internal M.2 SSD for boot, dual M.2 SSD supports mirroring																																																																																																						
Internal storage	For 3.5" SS bay	3.5" HDD, SATA6Gbps, 7.2K	1TB/2TB/4TB/6TB/8TB/10TB																																																																																																				
	For 3.5" bay (3.5" disks or 2.5" disks with 3.5" tray)	3.5" HDD, SATA6Gbps, 7.2K	1TB/2TB/4TB/6TB/8TB/10TB																																																																																																				
		3.5" HDD, SAS12Gbps, 7.2K	1TB/2TB/4TB/6TB/10TB																																																																																																				
		2.5" HDD, SAS12Gbps, 15K	300GB/600GB																																																																																																				
		2.5" SSD, SATA6Gbps	240GB/480GB																																																																																																				
	For 2.5" bay	2.5" HDD, SATA6Gbps, 7.2K	1TB/2TB																																																																																																				
		2.5" HDD, SAS12Gbps, 7.2K	1TB/2TB																																																																																																				
		2.5" HDD, SAS12Gbps, 10K	300GB/600GB/900GB/1.2TB/1.8TB																																																																																																				
		2.5" HDD, SAS12Gbps, 15K	300GB/600GB/900GB																																																																																																				
		2.5" SSD, SAS12Gbps	400GB/800GB/3.84TB																																																																																																				
2.5" SSD, SATA6Gbps		240GB/480GB																																																																																																					
2.5" NVMe SSD, AnyBay		1.92TB/3.84TB																																																																																																					
	M.2 SATA SSD	32GB/128GB/480GB																																																																																																					
Optical	Two 5.25" bays for optical and tape drive. Supports DVD-ROM or DVD±RW drives, half-height. Supports LTO-6 SAS, LTO-7 SAS, and RDX USB 3.0 tape drives																																																																																																						
Network interfaces	Integrated one dedicated management port plus two GbE ports. Optional PCIe adapters are supported. NC-SI and Wake-on-LAN are available on GbE port 1 (See right)																																																																																																						
Security features	Power-on and admin password. Trusted Platform Module, TCG 1.2 compliant, upgrade to 2.0 via UEFI setting. Optional TCM in China only. Optional lockable security bezel. Optional chassis intrusion switch																																																																																																						
Operating systems supported	Microsoft Windows Server 2016/2012 R2. Red Hat Enterprise Linux 7.3/6.9. SUSE Linux Enterprise Server 12 SP2/11 SP4. VMware vSphere (ESXi) 6.5/6.0 U3																																																																																																						
Systems management	XClarity Controller Standard, optional upgrades to Advanced or Enterprise are available. Energy Manager. XClarity Administrator. Provisioning Manager. Essentials. LEDs on front panel show the status of power, ID, network, simple-swap disks, and system error																																																																																																						
GPU support	Up to two optional NVIDIA Quadro P2000 or Quadro P6000																																																																																																						

Components	Specification												
Base warranty	MT 7X09: 1-year limited onsite service with 9x5/NBD MT 7X10: 3-year limited onsite service with 9x5/NBD												
Power supply	Supports one fixed 450W 80 PLUS Gold qualified AC power supply, non-hot swap, no redundant. Or up to two redundant hot-swap 550W/750W/1100W 80 PLUS Platinum qualified AC power supplies. Or up to two redundant hot-swap 750W Titanium qualified AC power supplies. 750W Titanium is 200V - 240V, others are 100V - 240V												
Video	Integrated Matrox G200 in XClarity Controller												
Cooling	Up to four fans with one for redundant. Two fans for single processor, three fans for dual processor or single processor with 4 x 2.5" HS bay installed. 4th fan is N + 1 redundant or GPU installed												
Front ports	One XClarity Controller USB connector, one USB 3.0												
Rear ports	One VGA, two USB 3.0, four USB 2.0, two ethernet (RJ-45), one XClarity Controller network connector. Optional COM port												
Environmental specification	Supports ASHRAE A4 with limitations. <table border="1"> <tbody> <tr> <td>Temperature - operating</td><td>A4: 5°C to 45°C (41°F to 113°F) A3: 5°C to 40°C (41°F to 104°F) A2: 10°C to 35°C (50°F to 95°F)</td></tr> <tr> <td>Temperature - non operating (no package)</td><td>-10°C to 60°C (14°F to 140°F)</td></tr> <tr> <td>Temperature - non operating (with package)</td><td>-40°C to 70°C (-40°F to 158°F)</td></tr> <tr> <td>Altitude - operating</td><td>(Unpressurized): 0-10000ft (0-3048m)</td></tr> <tr> <td>Humidity - operating, non-condensing</td><td>A4: 8%-90%. A3: 8%-85%. A2: 20%-80%</td></tr> <tr> <td>Humidity - storage (with package), non-condensing</td><td>8%-90%</td></tr> </tbody> </table> <p>Models should meet the following requirements to support A3 and A4:</p> <ul style="list-style-type: none"> • System rear fan required, no system fan fail • 450W fixed power supply not installed, redundant power supplies required • NVMe SSD not installed • GPU not installed • When 4 x 2.5" bay installed, only support up to 2TB SAS HDD/SSD and all SATA HDD/SSD 	Temperature - operating	A4: 5°C to 45°C (41°F to 113°F) A3: 5°C to 40°C (41°F to 104°F) A2: 10°C to 35°C (50°F to 95°F)	Temperature - non operating (no package)	-10°C to 60°C (14°F to 140°F)	Temperature - non operating (with package)	-40°C to 70°C (-40°F to 158°F)	Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)	Humidity - operating, non-condensing	A4: 8%-90%. A3: 8%-85%. A2: 20%-80%	Humidity - storage (with package), non-condensing	8%-90%
Temperature - operating	A4: 5°C to 45°C (41°F to 113°F) A3: 5°C to 40°C (41°F to 104°F) A2: 10°C to 35°C (50°F to 95°F)												
Temperature - non operating (no package)	-10°C to 60°C (14°F to 140°F)												
Temperature - non operating (with package)	-40°C to 70°C (-40°F to 158°F)												
Altitude - operating	(Unpressurized): 0-10000ft (0-3048m)												
Humidity - operating, non-condensing	A4: 8%-90%. A3: 8%-85%. A2: 20%-80%												
Humidity - storage (with package), non-condensing	8%-90%												
Environmental certification	Energy Star Server 2.1 certified. More environmental information please see: www.lenovo.com/social_responsibility/us/en/environment/												



Expansion slots

Slot 1 (CPU1)	PCIe 3.0 x8, full height, half length
Slot 2 (CPU1)	PCIe 3.0 x16, full height, half length
Slot 3 (CPU1)	PCIe 3.0 x16, full height, full length, double-width
Slot 4 (CPU2)	PCIe 3.0 x16 (x8 elec), full height, full length
Slot 5 (CPU2)	PCIe 3.0 x16, full height, full length, double-width
Slot 6 (CPU1)	PCIe 3.0 x8 (x4 elec), full height, full length

Note: All expansion cards and redundant PSU are optional.

System unique options

7X77A03475	ThinkSystem ST550 2.5" SATA/SAS 4-Bay Backplane Kit
7X77A03476	ThinkSystem ST550 2.5" Anybay 8-Bay Backplane Kit
7TP7A04369	ThinkSystem ST550 2.5" 8-Bay Backplane Kit
7TP7A04370	ThinkSystem ST550 3.5" SATA/SAS 4-Bay Backplane kit
7X77A03481	ThinkSystem ST550 3.5" Simple Swap Bracket Plate
7X77A03484	ThinkSystem ST550 4U Security Bezel
7X77A03485	ThinkSystem ST550 CMA kit
7X77A03488	ThinkSystem ST550 4U Tower to Rack Conversion Kit
7Z17A02577	ThinkSystem ST550 COM Port Upgrade Kit
7XH7A06781	ThinkSystem ST550 Front Mid FAN Module for 4x2.5" ODD conversion
7TP7A04371	ThinkSystem ST550 Rear FAN Module for RDN FAN

ThinkSystem ST550

