## ThinkSystem SR590 7X99A039EA

Region EMEA

Machine Type 7X99

TopSeller TopSeller

Processor 1x Xeon Silver 4110 8C/2.1GHz/11MB/85W/DDR4-2400

Memory 1x 16GB RDIMM DDR4-2666 (2Rx8)

Storage Controller 1x 930-16i 4GB Flash

Chassis 12x 3.5"

**Disk Bays** 12x 3.5" SATA/SAS HS

Disks Open

M.2 Drives None

**Onboard Networking Ports** 2x GbE RJ-45, 1x Mgmt

Additional Networking (LOM/ML2/PCIe) None

Standard Extension Slots 1x LOM, 1x PCIe x8 LP

Available Extension Slots via Riser Cards 3x PCIe x8 FHHL

Front VGA None

Optical None

TPM **TPM 1.2** 

System Management XClarity Advanced

Power Supply 1x750W Platinum

Preload None

Warranty 3-year

Ann Date (mm/yy) 11/17

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



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## PSREF

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## ThinkSystem SR590 Platform Specifications

Product Specifications Reference (PSREI	F)
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Components	Specification			Components	Specification
Form factor	2U rack			Joinponents	Up to two redundant hot-swap 550W and 750W 80 PLUS Platinum gualified AC
Dimensions	Height: 86.5 mm (3.4 in). Width: 482 mm (19.0 in) with rack latches. Depth: 763.7		Power supply	power supplies. Or up to two redundant hot-swap 750W Titanium qualified AC power supplies. 750W Titanium is 200V - 240V, others are 100V - 240V	
Weight	mm (30.1 in) Maximum configuration: 61.7 lb (28 kg)		Video	Integrated Matrox G200 in XClarity Controller	
Processor	Up to two 150W Intel Xeon Scalable family processors, Bronze, Silver, Gold, or Platinum. Up to 26 cores at 2.0GHz, up to 3.6GHz with 4 cores. Two processors are		Cooling	Three fans (2+1) for single processor model, four fans (3+1) for dual processor model	
	connected with two UPI (Ultra Path Interconnect) links up to 10.4GT/s each		Front ports	One XClarity Controller USB, one USB 3.0, one optional VGA	
Chipset	Intel C622 Platform Controll			Rear ports	One VGA, two USB 3.0, two ethernet (RJ-45), one XClarity Controller connector.
	Up to 16 DIMM sockets. Each processor supports up to 8 DIMM sockets with 6			Optional COM port	
Memory	channels. DDR4-2666. RDIMMs and LRDIMMs are supported, but memory types cannot be intermixed			Supports ASHRAE A4 with limitations.	
Memory capacity	With RDIMMs: Up to 512GB with 16 x 32 GB RDIMMs and two processors		-	Temperature - operating         A4: 5°C to 45°C (41°F to 113°F)           A3: 5°C to 40°C (41°F to 104°F)         A3: 5°C to 40°C (41°F to 104°F)           A2: 10°C to 35°C (50°F to 95°F)         A2: 10°C to 35°C (41°F to 140°F)	
Memory protection	on ECC, memory mirroring, and memory sparing			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)	
	Supports the following RAID/HBA adapters:		Environmental	Altitude - operating (Unpressurized): 0-10000ft (0-3048m)	
	RAID Interface Drive type RAID levels IROD Cache Cache FactBath Max		specification	Humidity - operating, non-condensing         A4: 8%~90%. A3:8%~85%. A2:8%~80%           Humidity - storage (with package), non-condensing         8%~90%	
					Models should meet the following requirements to support A3 and A4:
	bays SATA BOD SATA SA		Yes None None No -		Redundant power supplies required     No system fan fails
	530-8i 12Gbs SAS SATA 730-8i 12Gbs SAS SATA	SAS 0/1/10/5/50	YesNoneYes2Yes1GBNoneNo2		No system fan fails     No NVMe drive
Storage controllers	930-8i 12Gbs SAS SATA	SAS 0/1/10/5/50/6/60	Yes 2GB Flash backup Yes 2	<b>F</b> acility and a lat	<ul> <li>No rear two HS bays</li> <li>Processor TDP is less than or equal to 140 watts, and no Intel Xeon 6140 or 6152 processor is installed</li> </ul>
	For HS 930-16i 12Gbs SAS SATA bays 430-8i 12Gbs SAS SATA		Yes4GBFlash backupYes1YesNone-2		On 12x 3.5" models. mo M.2 drives     Energy Star Server 2.1 certified. More environmental information please see:
	430-16i 12Gbs SAS SATA 430-8e 12Gbs SAS SATA	SAS -	YesNone-1YesNone-5	Environmental certification	www.lenovo.com/social_responsibility/us/en/environment/
	430-16e 12Gbs SAS SATA	SAS -	Yes None None - 5		Slot 1 Slot 2 Slot 3 Slot 4 Slot 5 Slot 6
	930-8e 12Gbs SAS SATA		Yes 4GB Flash backup Yes 3	-	
	Note: 730-8i is available in China only		He have up to 12, or 2 E" He have		
	up to 12. On 12x 3.5". 8x 2.5	5", or 16x 2.5" bay r	HS bay up to 12, or 2.5" HS bay models. 4 bays can be upgrade to		
Disk drive bays	up to 12. On 12x 3.5", 8x 2.5", or 16x 2.5" bay models, 4 bays can be upgrade to AnyBay. Optional 2 rear 3.5" HS bays are supported on 12 x 3.5" model, takes				
-	place in riser card 1 location				
		D, SATA6Gbs, 7.2K	dual M.2 SSD supports mirroring	LOM	LOM GbE GbE VGA 2xUSB 3.0 PSU1 PSU2
		D, SATA6Gbs, 7.2K	1TB/2TB/4TB/6TB/8TB 1TB/2TB/4TB/6TB/8TB/10TB	port 1	port 2 port 1 port 2 (optional)
	For 3.5" bay 3.5" HD	1.5" bay 3.5" HDD, SAS12Gbs, 7.2K 1TB/2TB/4TB/6TB/10TB		XClarity Controller network connector	
	(3.5" disks or 2.5" disks with         3.5" HDD, SAS12Gbs, 15K         300GB/600GB/900GB           3.5" tray)         2.5" SSD, SATA6Gbs         240GB/480GB           2.5" NVMe SSD, AnyBay         960GB/1.92TB/3.84TB				
			240GB/480GB 960GB/1.92TB/3.84TB	Note: GbE port 1 and LOM port 1 support Wake-on-LAN and NC-SI. Riser cards, expansion cards, and LOM adapters are optional.	
		D, SATA6Gbs, 7.2K	1TB/2TB	Expansion slot	
Internal storage		D, SAS12Gbs, 7.2K	1TB/2TB	Slot 1-3 (riser ca	ard 1) Supports one of the following for riser card 1:
j v		D, SAS12Gbs, 10K	300GB/600GB/900GB/1.2TB/1.8TB		Option 1: PCIe 3.0 x8/x8/x8 (slot 1-3). Full height, half length. Option 2: PCIe 3.0 x16/x8 (slot 1 and 3). Full height, half length
		D, SAS12Gbs, 10K, SED	300GB/600GB		Option 3: PCIe 3.0 x8/x8/x8 ML2 (slot 1-3). Full height, half length
		D, SAS12Gbs, 15K D, SAS12Gbs	300GB/600GB/900GB 400GB/800GB/3.84TB		Option 4: Two rear 3.5" disk bays, 12 x 3.5" models only
		D, SATA6Gbs	240GB/480GB	Slot 4 (onboard)	
		Ve SSD, AnyBay	960GB/1.6TB/1.92TB/3.84TB	Slot 5 (riser card Slot 6 (riser card	
	M.2 boot drive M.2 SAT		32GB/128GB		
Optical	No internal optical bay. Usin			System unique	•
	customized I OM with two B	I-45 or SEP+ ports	s two GbE ports. One LOM slot for , up to 10GbE. Optional ML2 or PCI	7XH7A06253	ThinkSystem SR590/SR650 Rear HDD Kit
Network interfaces	adapters are supported. ML2 adapter requires riser card with ML2 slot. Up to two ports supports Wake-on-LAN and NC-SI (see right)		1/11/100/10	ThinkSystemSR550/SR590/SR650 x8/x8/x8ML2 PCIe FH Riser 1 Kit ThinkSystem SR550/SR590/SR650 x16/x8 PCIe FH Riser 1 Kit	
				ThinkSystem SR550/SR590/SR650 x8/x8/x8 PCIe FH Riser 1 Kit	
	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		4XH7A08780	ThinkSystemSR550/SR590/SR650 x16/x8(or x16) PCIe FH Riser 2 Kit	
Security features				ThinkSystem SR550/SR590/SR650 EIA Latch w/ VGA Upgrade Kit	
Operating systems	security bezei stems Microsoft Windows Server 2016/2012 R2. Red Hat Enterprise Linux 7.3/6.9. SUSE			ThinkSystem 2U Security Bezel ThinkSystem COM Port Upgrade Kit	
supported				ThinkSystem COM Port Opgrade Kit ThinkSystem SR590 2.5"" Anybay 8-Bay Backplane Kit	
Systems	XClarity Controller Standard	, optional upgrades	to Advanced or Enterprise are		ThinkSystem SR590 2.5" SATA/SAS 8-Bay Backplane Kit
management	available. Energy Manager. XClarity Administrator. Lenovo Capacity Planner.			· · · · · · · · · · · · · · · · · · ·	
-	Provisioning Manager. Esse	ntials. Light Path Di	agnostics	-	
GPU support	None MT 7X08: 1 year limited one	ito convice with Ove		-	
Base warranty	MT 7X98: 1-year limited ons MT 7X99: 3-year limited ons				
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