



# Lenovo ThinkSystem SR590 server Rack (2U) Intel® Xeon® 3106 1.7 GHz 16 GB DDR4-SDRAM 750 W



**Brand :** Lenovo

**Product family:** ThinkSystem

**Product code:** 7X99A03ANA

**Product name :** SR590



- High-performance processors and memory
- High-performance I/O and storage
- Large storage capacity
- Large I/O capacity
- High reliability, highly secure
- Cost-efficient
- Simple to manage and service

2U, 1x Xeon Bronze 3106, 1x 16 GB RDIMM DDR4-2666, 1x 530-8i, 8x 3.5" SATA/SAS HS, 1x PCIe x8, USB 3.0, XClarity Enterprise, 1x 750 W Platinum, Region NA

Lenovo ThinkSystem SR590. Processor family: Intel® Xeon®, Processor frequency: 1.7 GHz, Processor model: 3106. Internal memory: 16 GB, Internal memory type: DDR4-SDRAM, Memory layout (slots x size): 1 x 16 GB. Ethernet LAN. Power supply: 750 W, Redundant power supply (RPS) support. Chassis type: Rack (2U)

Processor		Network	
Processor manufacturer *	Intel	Ethernet interface type	Gigabit Ethernet
Processor family *	Intel® Xeon®	Ports & interfaces	
Processor generation	1st Generation Intel® Xeon® Scalable	Ethernet LAN (RJ-45) ports *	2
Processor model *	3106	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	3
Processor frequency *	1.7 GHz	VGA (D-Sub) ports quantity	1
Processor cores	8	Expansion slots	
Processor cache	11 MB	PCI Express x8 slots	1
Memory channels supported by processor	Hexa	PCI Express slots version	3.0
Number of processors installed	1	Design	
Thermal Design Power (TDP)	85 W	Chassis type *	Rack (2U)
Processor cache type	L3	Rack mounting	✓
Processor socket	LGA 3647 (Socket P)	Performance	
Processor lithography	14 nm	Performance management	XClarity Enterprise
Processor threads	8	Trusted Platform Module (TPM)	✓
Processor operating modes	64-bit	Software	
Stepping	U0	Compatible operating systems *	Microsoft Windows Server 2016/2012 R2. Red Hat Enterprise Linux 7.3/6.9. SUSE Linux Enterprise Server 12 SP2/11 SP4. VMware ESXi 6.5/6.0 U3
Bus type	UPI	Processor special features	
Processor codename	Skylake	Enhanced Intel SpeedStep Technology	✓
Tcase	77 °C	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Maximum internal memory supported by processor	768 GB	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Memory types supported by processor	DDR4-SDRAM	Intel® Turbo Boost Technology	✗
Memory clock speeds supported by processor	2133 MHz	Intel® AES New Instructions (Intel® AES-NI)	✓
ECC supported by processor	✓	Intel Trusted Execution Technology	✓
Execute Disable Bit	✓	Intel VT-x with Extended Page Tables (EPT)	✓
Maximum number of PCI Express lanes	48	Intel TSX-NI	✓
Processor package size	76.0 x 56.5 mm	Intel 64	✓
Processor code	SR3GL	Intel Virtualization Technology (VT-x)	✓
Scalability	2S		
Embedded options available	✓		
Conflict-Free processor	✓		
Memory			
Internal memory *	16 GB		
Internal memory type *	DDR4-SDRAM		

<b>Memory</b>		<b>Processor special features</b>	
Memory slots	16	Intel TSX-NI version	1.00
ECC	✓	Processor ARK ID	123540
Memory clock speed	2666 MHz	<b>Power</b>	
Memory layout (slots x size)	1 x 16 GB	Redundant power supply (RPS) support *	✓
Maximum internal memory *	1 TB	Power supply *	750 W
<b>Storage</b>		Number of redundant power supplies supported	2
Number of HDDs supported	8	Number of redundant power supplies installed	1
Supported HDD sizes	3.5"	<b>Operational conditions</b>	
RAID support *	✓	Storage relative humidity (H-H)	-40 - 70%
RAID levels	0, 1, 5, 10, 50, JBOD	Operating altitude	0 - 3000 m
Supported RAID controllers	530-8i	<b>Weight &amp; dimensions</b>	
Hot-swap	✓	Width	482 mm
Optical drive type *	✗	Depth	763.7 mm
Supported storage drive interfaces	SAS, Serial ATA III	Height	86.5 mm
Card reader integrated	✗	<b>Technical details</b>	
<b>Graphics</b>		Sustainability certificates	ENERGY STAR
On-board graphics card	✓	<b>Other features</b>	
On-board graphics card model	Matrox G200	Built-in display	✗
<b>Network</b>			
Wi-Fi	✗		
Bluetooth	✗		
Ethernet LAN	✓		

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