



# Lenovo Intel Xeon Gold 6230R processor 2.1 GHz 35.75 MB



Brand : Lenovo

Product code: 4XG7A37075

Product name : Intel Xeon Gold 6230R

ThinkSystem SN550 Intel Xeon Gold 6230R 26C 150W 2.1GHz Processor Option Kit

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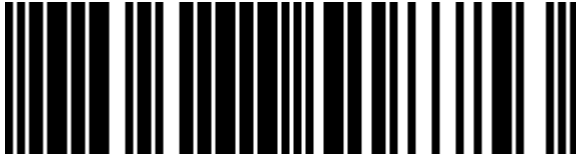
ThinkSystem servers incorporate Intel Xeon Scalable Family processors to enable critical business workloads and applications. The Intel scalable design provides significant improvement in performance, advanced reliability, scalability and hardware-enhanced security. Enhancements include higher per-core performance, greater memory bandwidth, expanded I/O, and improved security. This page allows you compare the features of the processors.

Lenovo Intel Xeon Gold 6230R. Processor family: Intel® Xeon® Gold, Processor socket: LGA 3647 (Socket P), Processor lithography: 14 nm. Memory channels: Hexa-channel, Maximum internal memory supported by processor: 1.02 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX, AVX 2.0, AVX-512, SSE4.2, Scalability: 2S

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor generation	2nd Generation Intel® Xeon® Scalable	Intel® Turbo Boost Technology	2.0
Processor model *	6230R	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor base frequency *	2.1 GHz	Enhanced Intel SpeedStep Technology	✓
Processor family *	Intel® Xeon® Gold	Intel Trusted Execution Technology	✓
Processor cores *	26	Intel® Speed Shift Technology	✓
Processor socket *	LGA 3647 (Socket P)	Intel VT-x with Extended Page Tables (EPT)	✓
Component for	Server/workstation	Intel 64	✓
Processor lithography *	14 nm	Intel Virtualization Technology (VT-x)	✓
Processor series	Intel Xeon Gold 6000 Series	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor threads	52	Intel Turbo Boost Max Technology 3.0	✗
Processor operating modes *	64-bit	AVX-512 Fused Multiply-Add (FMA) units	2
Processor boost frequency	4 GHz	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Processor cache	35.75 MB	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✗
Thermal Design Power (TDP)	150 W	Intel® Resource Director Technology (Intel® RDT)	✓
Processor codename	Cascade Lake	Intel® Volume Management Device (VMD)	✓
<b>Memory</b>		Intel® Run Sure Technology	✓
Maximum internal memory supported by processor	1.02 TB	Mode-based Execute Control (MBE)	✓
Memory types supported by processor	DDR4-SDRAM	Intel® Optane™ DC Persistent Memory Supported	✓
Memory clock speeds supported by processor	2933 MHz	Intel® vPro™ Platform Eligibility	✓
Memory channels *	Hexa-channel	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗
ECC	✓	<b>Operational conditions</b>	
<b>Graphics</b>		Tcase	85 °C
On-board graphics card *	✗		
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
<b>Features</b>			
Execute Disable Bit	✓		
Market segment	Server		
Maximum number of PCI Express lanes	48		
PCI Express slots version	3.0		
Supported instruction sets	AVX, AVX 2.0, AVX-512, SSE4.2		

## Features

Scalability	25
Embedded options available	✓
PCI Express CEM revision	3.0



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