



## Lenovo Xeon Intel Gold 5415+ processor 2.9 GHz 22.5 MB

Brand : Lenovo

Product family: Xeon

Product code: 4XG7A84163

Product name : Intel Xeon Gold 5415+



ThinkSystem SR650 V3 Intel Xeon Gold 5415+ 8C 150W 2.9GHz Processor Option Kit w/o Fan  
Lenovo Xeon Intel Gold 5415+. Processor family: Intel® Xeon® Gold, Processor socket: LGA 4677 (Socket E), Processor manufacturer: Intel. Memory channels: Octa-channel, Maximum internal memory supported by processor: 6 TB, Memory types supported by processor: DDR5-SDRAM. Market segment: Server, Use conditions: Server/Enterprise, Supported instruction sets: AMX, SSE4.2, AVX, AVX 2.0, AVX-512. Maximum Enclave Size Support for Intel® SGX: 128 GB, Intel® QuickAssist Technology (QAT): 1 default devices, Intel® Dynamic Load Balancer (DLB): 1 default devices. Package type: Retail box

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Control-flow Enforcement Technology (CET)	✓
Processor generation	Intel Xeon Scalable 4th Gen	Intel® Crypto Acceleration	✓
Processor model *	5415+	Intel® Platform Firmware Resilience Support	✓
Processor base frequency *	2.9 GHz	Maximum Enclave Size Support for Intel® SGX	128 GB
Processor family *	Intel® Xeon® Gold	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cores *	8	Intel® OS Guard	✓
Processor socket *	LGA 4677 (Socket E)	Intel Software Guard Extensions (Intel SGX)	✓
Processor threads	16	Intel 64	✓
System bus rate	16 GT/s	Intel Virtualization Technology (VT-x)	✓
Processor boost frequency	4.1 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
High priority cores	2	AVX-512 Fused Multiply-Add (FMA) units	2
High priority core frequency	3.1 GHz	Intel® Boot Guard	✓
Low priority cores	6	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Processor cache	22.5 MB	Intel® Resource Director Technology (Intel® RDT)	✓
Thermal Design Power (TDP)	150 W	Intel® Run Sure Technology	✓
Cooler included *	✗	Mode-based Execute Control (MBE)	✓
Stepping	S3	Intel® Optane™ DC Persistent Memory Supported	✓
Processor codename	Sapphire Rapids	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✓
Processor ARK ID	232373	Intel® QuickAssist Software Acceleration	✓
<b>Memory</b>		Intel® On Demand Feature Activation	✓
Maximum internal memory supported by processor	6 TB	Intel® QuickAssist Technology (QAT)	1 default devices
Memory types supported by processor	DDR5-SDRAM	Intel® Dynamic Load Balancer (DLB)	1 default devices
Memory channels *	Octa-channel	Intel® Data Streaming Accelerator (DSA)	1 default devices
ECC	✓	Intel® In-memory Analytics Accelerator (IAA)	1 default devices
<b>Graphics</b>		Intel® Advanced Matrix Extensions (AMX)	✓
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		
Use conditions	Server/Enterprise		
Maximum number of PCI Express lanes	80		
PCI Express slots version	5.0		

Features		Operational conditions	
Supported instruction sets	AMX, SSE4.2, AVX, AVX 2.0, AVX-512	Tcase	78 °C
Scalability	2S	DTS Max	99 °C
Embedded options available	✓	<b>Technical details</b>	
Export Control Classification Number (ECCN)	5A992C	Launch date	Q1'23
Commodity Classification Automated Tracking System (CCATS)	G180729	Status	Launched
<b>Processor special features</b>		Supported memory types	DDR5-SDRAM
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Memory speed (max)	4400 MHz
Intel® Turbo Boost Technology	2.0	Number of UPI links	3
Intel® AES New Instructions (Intel® AES-NI)	✓	Package carrier	E1B
Intel Trusted Execution Technology	✓	<b>Logistics data</b>	
Intel® Speed Shift Technology	✓	Harmonized System (HS) code	8542310001
Intel® Transactional Synchronization Extensions	✓	<b>Packaging data</b>	
Intel® Total Memory Encryption	✓	Package type	Retail box
		<b>Weight &amp; dimensions</b>	
		Processor package size	77.5 x 56.5 mm
		<b>Other features</b>	
		Maximum internal memory	4 TB



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