



Lenovo Intel Xeon Gold 6246R processor 3.4 GHz 35.75 MB

Brand : Lenovo

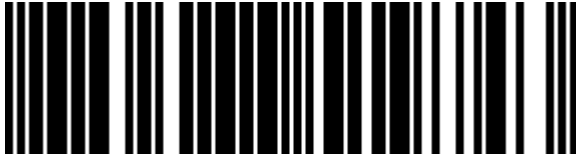
Product code: 4XG7A38077

Product name : Intel Xeon Gold 6246R

Intel Xeon Gold 6246R, 35.75M Cache, 3.40 GHz, w/o Fan
Lenovo Intel Xeon Gold 6246R. 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 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 package size: 76 x 56.5 mm



Processor		Processor special features	
Processor generation	2nd Generation Intel® Xeon® Scalable	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	6246R	Intel® Turbo Boost Technology	2.0
Processor base frequency *	3.4 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor family *	Intel® Xeon® Gold	Enhanced Intel SpeedStep Technology	✓
Processor cores *	16	Intel Trusted Execution Technology	✓
Processor socket *	LGA 3647 (Socket P)	Intel® Speed Shift Technology	✓
Component for	Server/workstation	Intel VT-x with Extended Page Tables (EPT)	✓
Processor lithography *	14 nm	Intel 64	✓
Processor threads	32	Intel Virtualization Technology (VT-x)	✓
Processor operating modes *	64-bit	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor boost frequency	4.1 GHz	Intel Turbo Boost Max Technology 3.0	✗
Processor cache	35.75 MB	AVX-512 Fused Multiply-Add (FMA) units	2
Thermal Design Power (TDP)	205 W	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Cooler included *	✗	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✗
Bus type	UPI	Intel® Volume Management Device (VMD)	✓
Number of QPI links	2	Intel® Optane™ DC Persistent Memory Supported	✓
Processor codename	Cascade Lake	Intel® vPro™ Platform Eligibility	✓
		Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗
Memory		Operational conditions	
Maximum internal memory supported by processor	1 TB	Tcase	75 °C
Memory types supported by processor	DDR4-SDRAM	Logistics data	
Memory clock speeds supported by processor	2933 MHz	Harmonized System (HS) code	85423119
Memory channels *	Hexa-channel	Weight & dimensions	
ECC	✓	Processor package size	76 x 56.5 mm
Graphics			
On-board graphics card *	✗		
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
Features			
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		
Scalability	2S		



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