

Intel Xeon 6246 processor 3.3 GHz 24.75 MB

Brand : Intel

Product family: Xeon

Product code:
CD8069504282905

Product name : 6246



Intel Xeon Gold 6246 Processor (25MB Cache, up to 4.2 GHz)

Intel Xeon 6246. 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: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: 4S. Processor package size: 76mm x 56.5mm. Maximum internal memory: 1 TB

Processor		Processor special features	
Processor manufacturer *	Intel	Intel Trusted Execution Technology	✓
Processor model *	6246	Intel® Speed Shift Technology	✓
Processor base frequency *	3.3 GHz	Intel® Transactional Synchronization Extensions	✓
Processor family *	Intel® Xeon® Gold	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cores *	12	Intel TSX-NI	✓
Processor socket *	LGA 3647 (Socket P)	Intel 64	✓
Component for	Server/workstation	Intel Virtualization Technology (VT-x)	✓
Processor lithography *	14 nm	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor threads	24	Intel Turbo Boost Max Technology 3.0	✗
Processor operating modes *	64-bit	AVX-512 Fused Multiply-Add (FMA) units	2
Processor boost frequency	4.2 GHz	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Processor cache	24.75 MB	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✗
Thermal Design Power (TDP)	165 W	Intel® Resource Director Technology (Intel® RDT)	✓
Box *	✗	Intel® Volume Management Device (VMD)	✓
Cooler included *	✗	Intel® Run Sure Technology	✓
Processor codename	Cascade Lake	Mode-based Execute Control (MBE)	✓
Processor ARK ID	193969	Intel® Optane™ DC Persistent Memory Supported	✓
Memory		Intel® vPro™ Platform Eligibility	✓
Maximum internal memory supported by processor	1.02 TB	Intel Speed Select Technology (SST)	✗
Memory types supported by processor	DDR4-SDRAM	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗
Memory clock speeds supported by processor	2933 MHz	Intel® Optane™ DC Persistent Memory technology	✓
Memory channels *	Hexa-channel	Operational conditions	
ECC	✓	Tcase	76 °C
Graphics		Technical details	
On-board graphics card *	✗	Launch date	Q2'19
Discrete graphics card *	✗	Product type	Processor
On-board graphics card model *	Not available	Status	Launched
Discrete graphics card model *	Not available	Supported memory types	DDR4-SDRAM
Features		Memory speed (max)	2933 MHz
Execute Disable Bit	✓	Number of UPI links	3
Market segment	Server	Servicing status	Baseline Servicing
Maximum number of PCI Express lanes	48		
PCI Express slots version	3.0		
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512		
Scalability	4S		
Embedded options available	✗		
PCI Express CEM revision	3.0		

Features		Logistics data	
Export Control Classification Number (ECCN)	5A992C	Harmonized System (HS) code	85423119
Commodity Classification Automated Tracking System (CCATS)	G077159	Weight & dimensions	
		Processor package size	76mm x 56.5mm
Processor special features		Other features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Maximum internal memory	1 TB
Intel® Turbo Boost Technology	2.0		
Intel® AES New Instructions (Intel® AES-NI)	✓		
Enhanced Intel SpeedStep Technology	✓		



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