

Intel Xeon 6234 processor 3.3 GHz 24.75 MB Box

Brand : Intel

Product family: Xeon

Product code: BX806956234

Product name : 6234



Intel Xeon Gold 6234 Processor (24.75MB Cache, up to 4 GHz)

Intel Xeon 6234. 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. Package type: Retail box. Processor package size: 76mm x 56.5mm

Processor		Processor special features	
Processor manufacturer *	Intel	Intel Trusted Execution Technology	✓
Processor model *	6234	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 *	8	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	16	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)	✓
Processor cache	24.75 MB	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✗
Thermal Design Power (TDP)	130 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	193954	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	79 °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	Packaging data	
		Package type	Retail box
Processor special features		Weight & dimensions	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Processor package size	76mm x 56.5mm
Intel® Turbo Boost Technology	2.0	Other features	
Intel® AES New Instructions (Intel® AES-NI)	✓	Maximum internal memory	1 TB
Enhanced Intel SpeedStep Technology	✓		



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