

Intel Xeon 6242 processor 2.8 GHz 22 MB Box

Brand : Intel

Product family: Xeon

Product code: BX806956242

Product name : 6242

Intel Xeon Gold 6242 Processor (22MB Cache, up to 3.9 GHz)

Intel Xeon 6242. 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 generation	2nd Generation Intel® Xeon® Scalable	Intel® Speed Shift Technology	✓
Processor model *	6242	Intel® Transactional Synchronization Extensions	✓
Processor base frequency *	2.8 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor family *	Intel® Xeon® Gold	Intel TSX-NI	✓
Processor cores *	16	Intel 64	✓
Processor socket *	LGA 3647 (Socket P)	Intel Virtualization Technology (VT-x)	✓
Component for	Server/workstation	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor lithography *	14 nm	Intel Turbo Boost Max Technology 3.0	✗
Processor threads	32	AVX-512 Fused Multiply-Add (FMA) units	2
Processor operating modes *	64-bit	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Processor boost frequency	3.9 GHz	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✗
Processor cache	22 MB	Intel® Resource Director Technology (Intel® RDT)	✓
Thermal Design Power (TDP)	150 W	Intel® Volume Management Device (VMD)	✓
Box *	✓	Intel® Run Sure Technology	✓
Cooler included *	✓	Mode-based Execute Control (MBE)	✓
Processor codename	Cascade Lake	Intel® Optane™ DC Persistent Memory Supported	✓
Processor ARK ID	192440	Intel® vPro™ Platform Eligibility	✓
Memory		Intel Speed Select Technology (SST)	✗
Maximum internal memory supported by processor	1.02 TB	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗
Memory types supported by processor	DDR4-SDRAM	Intel® Optane™ DC Persistent Memory technology	✓
Memory clock speeds supported by processor	2933 MHz	Operational conditions	
Memory channels *	Hexa-channel	Tcase	85 °C
ECC	✓	Technical details	
Graphics		Launch date	Q2'19
On-board graphics card *	✗	Product type	Processor
Discrete graphics card *	✗	Status	Launched
On-board graphics card model *	Not available	Supported memory types	DDR4-SDRAM
Discrete graphics card model *	Not available	Memory speed (max)	2933 MHz
Features		Number of UPI links	3
Execute Disable Bit	✓	Servicing status	Baseline Servicing
Market segment	Server		
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	✗		

Features		Logistics data	
PCI Express CEM revision	3.0	Harmonized System (HS) code	85423119
Export Control Classification Number (ECCN)	5A992C	Packaging data	
Commodity Classification Automated Tracking System (CCATS)	G077159	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	✓		



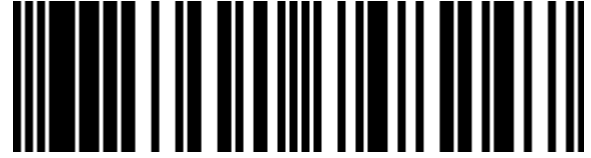
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