

Intel Xeon Gold 6330 processor 2 GHz 42 MB Box

Brand : Intel

Product family: Xeon

Product code: BX806896330

Product name : Gold 6330

BX806896330

Intel Xeon Gold 6330. Processor family: Intel® Xeon®, Processor socket: LGA 4189, Processor lithography: 10 nm. Memory channels: Octa-channel, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: 2S. Maximum Enclave Size Support for Intel® SGX: 64 GB. Package type: Retail box



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor generation	3rd Generation Intel® Xeon® Scalable	Intel Trusted Execution Technology	✓
Processor model *	6330	Intel® Speed Shift Technology	✓
Processor base frequency *	2 GHz	Intel® Transactional Synchronization Extensions	✓
Processor family *	Intel® Xeon®	Intel® Total Memory Encryption	✓
Processor cores *	28	Intel® Crypto Acceleration	✓
Processor socket *	LGA 4189	Intel® Platform Firmware Resilience Support	✓
Component for	Server/workstation	Maximum Enclave Size Support for Intel® SGX	64 GB
Processor lithography *	10 nm	Intel VT-x with Extended Page Tables (EPT)	✓
Processor series	Intel Xeon Gold 6000 Series	Intel Software Guard Extensions (Intel SGX)	✓
Processor threads	56	Intel 64	✓
System bus rate	11.2 GT/s	Intel Virtualization Technology (VT-x)	✓
Processor operating modes *	64-bit	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor boost frequency	3.1 GHz	AVX-512 Fused Multiply-Add (FMA) units	2
High priority cores	12	Intel® Deep Learning Boost (Intel® DL Boost)	✓
High priority core frequency	2.1 GHz	Intel® Resource Director Technology (Intel® RDT)	✓
Low priority cores	16	Intel® Volume Management Device (VMD)	✓
Low priority core frequency	1.8 GHz	Intel® Run Sure Technology	✓
Processor cache	42 MB	Mode-based Execute Control (MBE)	✓
Thermal Design Power (TDP)	205 W	Intel® Optane™ DC Persistent Memory Supported	✓
Box *	✓	Operational conditions	
Cooler included *	✗	Tcase	86 °C
Processor codename	Ice Lake	Technical details	
Processor ARK ID	212458	Target market	Cloud Computing
Memory		Launch date	Q2'21
Memory types supported by processor	DDR4-SDRAM	Status	Launched
Memory channels *	Octa-channel	Supported memory types	DDR4-SDRAM
ECC	✓	Memory speed (max)	2933 MHz
Graphics		Number of UPI links	3
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		

Features		Technical details	
Maximum number of PCI Express lanes	64	Servicing status	Baseline Servicing
PCI Express slots version	4.0	Logistics data	
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Harmonized System (HS) code	85423119
Scalability	2S	Packaging data	
Embedded options available	✓	Package type	Retail box
Export Control Classification Number (ECCN)	5A992CN3	Weight & dimensions	
Commodity Classification Automated Tracking System (CCATS)	G178966	Processor package size	77.5 x 56.5 mm
Processor special features		Other features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Maximum internal memory	6 TB
Intel® Turbo Boost Technology	2.0		



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