

## Intel Xeon Gold 6330 processor 2 GHz 42 MB

**Brand :** Intel

**Product family:** Xeon

**Product code:**  
CD8068904572101

**Product name :** Gold 6330

Intel Xeon Gold 6330 Processor (42MB Cache, up to 3.1 GHz)

Intel Xeon Gold 6330. Processor family: Intel® Xeon®, Processor socket: LGA 4189, Processor lithography: 10 nm. Memory channels: Octa-channel, Maximum internal memory supported by processor: 6.14 TB, 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 threads	56	Intel Software Guard Extensions (Intel SGX)	✓
System bus rate	11.2 GT/s	Intel 64	✓
Processor operating modes *	64-bit	Intel Virtualization Technology (VT-x)	✓
Processor boost frequency	3.1 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
High priority cores	12	Intel® Optane™ Memory Ready	✓
High priority core frequency	2.1 GHz	AVX-512 Fused Multiply-Add (FMA) units	2
Low priority cores	16	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Low priority core frequency	1.8 GHz	Intel® Resource Director Technology (Intel® RDT)	✓
Processor cache	42 MB	Intel® Volume Management Device (VMD)	✓
Thermal Design Power (TDP)	205 W	Intel® Run Sure Technology	✓
Box *	✗	Mode-based Execute Control (MBE)	✓
Cooler included *	✗	Intel® Optane™ DC Persistent Memory Supported	✓
Processor codename	Ice Lake		
Processor ARK ID	212458		
Memory		Operational conditions	
Maximum internal memory supported by processor	6.14 TB	Tcase	86 °C
Memory types supported by processor	DDR4-SDRAM	Technical details	
Memory clock speeds supported by processor	2933 MHz	Target market	Cloud Computing
Memory channels *	Octa-channel	Launch date	Q2'21
ECC	✓	Status	Launched
Graphics		Supported memory types	DDR4-SDRAM
On-board graphics card *	✗	Memory speed (max)	2933 MHz
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		

Features		Technical details	
Execute Disable Bit	✓	Number of UPI links	3
Market segment	Server	Servicing status	Baseline Servicing
Maximum number of PCI Express lanes	64	Logistics data	
PCI Express slots version	4.0	Harmonized System (HS) code	85423119
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Packaging data	
Scalability	2S	Package type	Retail box
Embedded options available	✓	Weight & dimensions	
Export Control Classification Number (ECCN)	5A992CN3	Processor package size	77.5 x 56.5 mm
Commodity Classification Automated Tracking System (CCATS)	G178966	Other features	
		Maximum internal memory	6 TB
Processor special features			
Intel® Hyper Threading Technology (Intel® HT Technology)	✓		
Intel® Turbo Boost Technology	2.0		



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