



DELL Xeon Gold 5318Y processor 2.1 GHz 36 MB

Brand : DELL

Product family: Xeon

Product code: 338-CBXV

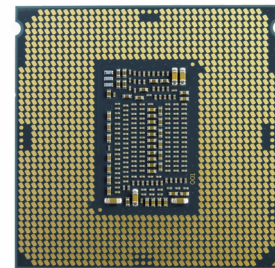
Product name : Gold 5318Y

Intel® Xeon® Gold 5318Y Processor (36M Cache, 2.10 GHz)

DELL Xeon Gold 5318Y processor 2.1 GHz 36 MB:

The Intel Xeon® Gold 5318Y 2.1GHz Twenty Four Core Processor enhances the performance and the speed of your system. Additionally, the Virtualization Technology enables migration of more environments. It supports enhanced SpeedStep® technology that allows tradeoffs to be made between performance and power consumption.

Its Thermal Monitoring Technologies protect the processor package and the system from thermal failure through several thermal management features. The VT-x with Extended Page Tables (EPT) also known as Second Level Address Translation (SLAT), provides acceleration for memory intensive virtualized applications. Packed with more features, the Xeon Gold 5318Y 2.1GHz Twenty Four Core Processor is the ideal choice for virtually all of your data demanding or standard enterprise infrastructure applications.



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 *	5318Y	Intel® Speed Shift Technology	✓
Processor base frequency *	2.1 GHz	Intel® Transactional Synchronization Extensions	✓
Processor family *	Intel® Xeon® Gold	Intel® Total Memory Encryption	✓
Processor cores *	24	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 5000 Series	Intel Software Guard Extensions (Intel SGX)	✓
Processor threads	48	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	3.4 GHz	AVX-512 Fused Multiply-Add (FMA) units	2
Processor cache	36 MB	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Thermal Design Power (TDP)	165 W	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✓
Box *	✗	Intel® Resource Director Technology (Intel® RDT)	✓
Cooler included *	✗	Intel® Volume Management Device (VMD)	✓
Processor codename	Ice Lake		
Memory			
Maximum internal memory supported by processor	6 TB		
Memory types supported by processor	DDR4-SDRAM		
Memory clock speeds supported by processor	2933 MHz		
Memory channels *	Octa-channel		
ECC	✓		

Graphics		Processor special features	
On-board graphics card *	✗	Intel® Run Sure Technology	✓
Discrete graphics card *	✗	Mode-based Execute Control (MBE)	✓
On-board graphics card model *	Not available	Intel® Optane™ DC Persistent Memory Supported	✓
Discrete graphics card model *	Not available		
Features		Operational conditions	
Execute Disable Bit	✓	Tcase	87 °C
Market segment	Server	Technical details	
Maximum number of PCI Express lanes	64	Launch date	Q2'21
PCI Express slots version	4.0	Status	Launched
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Supported memory types	DDR4-SDRAM
Scalability	2S	Memory speed (max)	2933 MHz
Embedded options available	✓	Number of UPI links	3
Export Control Classification Number (ECCN)	5A992CN3	Logistics data	
Commodity Classification Automated Tracking System (CCATS)	G178966	Harmonized System (HS) code	85423119
Processor special features		Weight & dimensions	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Processor package size	77.5 x 56.5 mm
Intel® Turbo Boost Technology	2.0	Other features	
		Maximum internal memory	6 TB



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