



DELL Xeon Gold 5318Y processor 2.1 GHz 36 MB

Brand : DELL

Product family: Xeon

Product code: 338-CBXV

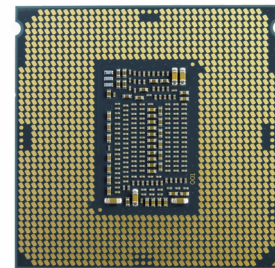
Product name : Gold 5318Y

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® Turbo Boost Technology	2.0
Processor generation	3rd Generation Intel® Xeon® Scalable	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor model *	5318Y	Intel Trusted Execution Technology	✓
Processor base frequency *	2.1 GHz	Intel® Speed Shift Technology	✓
Processor family *	Intel® Xeon® Gold	Intel® Transactional Synchronization Extensions	✓
Processor cores *	24	Intel® Total Memory Encryption	✓
Processor socket *	FCLGA4189	Intel® Crypto Acceleration	✓
Component for	Server/workstation	Intel® Platform Firmware Resilience Support	✓
Processor lithography *	10 nm	Maximum Enclave Size Support for Intel® SGX	64 GB
Processor series	Intel Xeon Gold 5000 Series	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	48	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	3.4 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor cache	36 MB	AVX-512 Fused Multiply-Add (FMA) units	2
Thermal Design Power (TDP)	165 W	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Box *	✗	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✓
Cooler included *	✗	Intel® Resource Director Technology (Intel® RDT)	✓
Processor codename	Ice Lake	Intel® Volume Management Device (VMD)	✓
Memory			
Maximum internal memory supported by processor	6000 GB		
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
Harmonized System (HS) code	85423119	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	6000 GB
Processor special features			
Intel® Hyper Threading Technology (Intel® HT Technology)	✓		



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