



DELL Xeon 5218 processor 2.3 GHz 22 MB

Brand : DELL

Product family: Xeon

Product code: 338-BRVS

Product name : 5218

Intel Xeon Gold 5218 (22MB Cache, 2.3GHz, 3.7GHz Turbo)

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The Intel Xeon® 5218 2.3GHz Sixteen 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 5218 2.3GHz Sixteen 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 Trusted Execution Technology	✓
Processor generation	2nd Generation Intel® Xeon® Scalable	Intel® Speed Shift Technology	✓
Processor model *	5218	Intel VT-x with Extended Page Tables (EPT)	✓
Processor base frequency *	2.3 GHz	Intel TSX-NI	✓
Processor family *	Intel® Xeon® Gold	Intel 64	✓
Processor cores *	16	Intel Virtualization Technology (VT-x)	✓
Processor socket *	LGA 3647 (Socket P)	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Component for	Server/workstation	Intel Turbo Boost Max Technology 3.0	✗
Processor lithography *	14 nm	AVX-512 Fused Multiply-Add (FMA) units	1
Processor threads	32	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Processor operating modes *	64-bit	Intel® Resource Director Technology (Intel® RDT)	✓
Processor boost frequency	3.9 GHz	Intel® Volume Management Device (VMD)	✓
Processor cache	22 MB	Intel® Run Sure Technology	✓
Thermal Design Power (TDP)	125 W	Mode-based Execute Control (MBE)	✓
Box *	✗	Intel® vPro™ Platform Eligibility	✓
Cooler included *	✗	Intel Speed Select Technology (SST)	✗
Processor codename	Cascade Lake	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗
Processor ARK ID	192444	Intel® Optane™ DC Persistent Memory technology	✓
Memory		Operational conditions	
Maximum internal memory supported by processor	1.02 TB	Tcase	87 °C
Memory types supported by processor	DDR4-SDRAM	Technical details	
Memory clock speeds supported by processor	2667 MHz	Launch date	Q2'19
Memory channels *	Hexa-channel	Product type	Processor
ECC	✓	Status	Launched
Graphics		Memory speed (max)	2667 MHz
On-board graphics card *	✗	Number of UPI links	2
Discrete graphics card *	✗	Logistics data	
On-board graphics card model *	Not available	Harmonized System (HS) code	85423119
Discrete graphics card model *	Not available		
Features			
Execute Disable Bit	✓		
Market segment	Server		

Features		Weight & dimensions	
Maximum number of PCI Express lanes	48	Processor package size	76.0 x 56.5 mm
PCI Express slots version	3.0	Other features	
Supported instruction sets	AVX-512	Compatibility - PowerEdge R640 - PowerEdge R740 - PowerEdge R940 - PowerEdge R740XD - PowerEdge C6420 - PowerEdge R440 - PowerEdge T640 - PowerEdge FC640 - PowerEdge M640 - PowerEdge M640 VRTX - PowerEdge R540 - PowerEdge C4140 - PowerEdge R840 - PowerEdge R940xa - PowerEdge MX740C - PowerEdge MX840c - PowerEdge R740xd2 - PowerEdge XR2	
Scalability	4S		
Embedded options available	✗		
PCI Express CEM revision	3.0		
Processor special features			
Intel® Hyper Threading Technology (Intel® HT Technology)	✓		
Intel® Turbo Boost Technology	2.0		
Intel® AES New Instructions (Intel® AES-NI)	✓		
Enhanced Intel SpeedStep Technology	✓		



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