



DELL Intel Xeon Gold 6148 processor 2.4 GHz 27.5 MB L3

Brand : DELL

Product code: 338-BLNP

Product name : Intel Xeon Gold 6148

Intel Xeon Gold 6148, 27.5M Cache, 2.4 GHz, 150 W TDP, FCLGA3647

DELL Intel Xeon Gold 6148 processor 2.4 GHz 27.5 MB L3:

The Intel Xeon® Gold 6148 2.40 GHz Twenty 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 6148 2.40 GHz Twenty Core Processor is the ideal choice for virtually all of your data demanding or standard enterprise infrastructure applications.



Processor		Features	
Processor generation	1st Generation Intel® Xeon® Scalable	Embedded options available	✗
Processor model *	6148	Processor special features	
Processor base frequency *	2.4 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor family *	Intel® Xeon® Gold	Intel® Turbo Boost Technology	2.0
Processor cores *	20	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor socket *	LGA 3647 (Socket P)	Enhanced Intel SpeedStep Technology	✓
Component for	Server/workstation	Intel Trusted Execution Technology	✓
Processor lithography *	14 nm	Intel® Speed Shift Technology	✓
Processor series	Intel Xeon Gold 6000 Series	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	40	Intel TSX-NI	✓
Processor operating modes *	64-bit	Intel 64	✓
Processor boost frequency	3.7 GHz	Intel Virtualization Technology (VT-x)	✓
Processor cache	27.5 MB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor cache type	L3	Intel Turbo Boost Max Technology 3.0	✗
Thermal Design Power (TDP)	150 W	Intel® Optane™ Memory Ready	✗
Memory		Intel® vPro™ Platform Eligibility	✓
Maximum internal memory supported by processor	768 GB	Operational conditions	
Memory types supported by processor	DDR4-SDRAM	Tcase	86 °C
Memory clock speeds supported by processor	2666 MHz	Logistics data	
Memory channels *	Hexa-channel	Harmonized System (HS) code	85423119
ECC	✓	Other features	
Graphics		Compatibility	
On-board graphics card *	✗	- PowerEdge R640 - PowerEdge M640 - PowerEdge C4140 - PowerEdge M640 VRTX - PowerEdge C6420 - PowerEdge R940 - PowerEdge FC640 - PowerEdge MX840C - PowerEdge R740XD - PowerEdge R940xa - PowerEdge R840 - PowerEdge T640 - PowerEdge MX740C - PowerEdge R740	
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
Features			
Execute Disable Bit	✓		
Market segment	Server		
Maximum number of PCI Express lanes	48		
PCI Express slots version	3.0		
Supported instruction sets	AVX, AVX 2.0, AVX-512, SSE4.2		
Scalability	S4S		



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