HP Intel Xeon Gold 6142 processor 2.6 GHz 22 MB L3

Brand : HP **Product code:** L09268-001

Product name : Intel Xeon Gold 6142

Intel Xeon Gold 6142, 22M Cache, 2.6 GHz, 150 W TDP, FCLGA3647

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HP Intel Xeon Gold 6142. Processor family: Intel® Xeon® Gold, Processor socket: LGA 3647 (Socket P), Processor lithography: 14 nm. Memory channels: Hexa-channel, Maximum internal memory supported by processor: 768 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX, AVX 2.0, AVX-512, SSE4.2, Scalability: S4S

Processor	
Processor generation	1st Generation Intel® Xeon® Scalable
Processor model *	6142
Processor base frequency *	2.6 GHz
Processor family *	Intel® Xeon® Gold
Processor cores *	16
Processor socket *	LGA 3647 (Socket P)
Component for	Server/workstation
Processor lithography *	14 nm
Processor series	Intel Xeon Gold 6000 Series
Processor threads	32
Processor operating modes *	64-bit
Processor boost frequency	3.7 GHz
Processor cache	22 MB
Processor cache type	L3
Thermal Design Power (TDP)	150 W
Cooler included *	✗
Stepping	H0
Bus type	UPI
Processor codename	Skylake

Memory	
Maximum internal memory supported by processor	768 GB
Memory types supported by processor	DDR4-SDRAM
Memory clock speeds supported by processor	2666 MHz
Memory channels *	Hexa-channel
ECC	✓

Graphics	
On-board graphics card *	✗
Discrete graphics card *	✗

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

Features	
Scalability	S4S
Embedded options available	✗

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	✓
Intel Trusted Execution Technology	✓
Intel® Speed Shift Technology	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel TSX-NI	✓
Intel 64	✓
Intel Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel Turbo Boost Max Technology 3.0	✗
Intel® Optane™ Memory Ready	✗
AVX-512 Fused Multiply-Add (FMA) units	1
Intel® vPro™ Platform Eligibility	✓

Operational conditions	
Tcase	85 °C

Technical details	
Intel® Volume Management Device (VMD) version	✓
Mode-based Execute Control (MBE) version	✓
Number of UPI links	3

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