



HP Intel Xeon Gold 6238 processor 2.1 GHz

Brand : HP

Product code: 6CY28AV

Product name : Intel Xeon Gold 6238

Intel Xeon Gold 6238 Processor 30.25M Cache, 2.10 GHz

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HP Intel Xeon Gold 6238. 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: 1 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX, AVX 2.0, AVX-512, SSE4.2, Scalability: 4S



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor generation	2nd Generation Intel® Xeon® Scalable	Intel® Turbo Boost Technology	2.0
Processor model *	6238	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor base frequency *	2.1 GHz	Enhanced Intel SpeedStep Technology	✓
Processor family *	Intel® Xeon® Gold	Intel Trusted Execution Technology	✓
Processor cores *	22	Intel® Speed Shift Technology	✓
Processor socket *	LGA 3647 (Socket P)	Intel VT-x with Extended Page Tables (EPT)	✓
Component for	Server/workstation	Intel TSX-NI	✓
Processor lithography *	14 nm	Intel 64	✓
Processor series	Intel Xeon Gold 6000 Series	Intel Virtualization Technology (VT-x)	✓
Processor threads	44	Intel Virtualization Technology for Directed I/O (VT-d)	✓
System bus rate	30.25 GT/s	Intel Turbo Boost Max Technology 3.0	✗
Processor boost frequency	3.7 GHz	AVX-512 Fused Multiply-Add (FMA) units	2
Thermal Design Power (TDP)	140 W	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Processor codename	Cascade Lake	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✗
Memory		Intel® Volume Management Device (VMD)	✓
Maximum internal memory supported by processor	1 TB	Intel® Optane™ DC Persistent Memory Supported	✓
Memory types supported by processor	DDR4-SDRAM	Intel® vPro™ Platform Eligibility	✓
Memory clock speeds supported by processor	2400 MHz	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗
Memory channels *	Hexa-channel	Operational conditions	
ECC	✓	Tcase	92 °C
Graphics			
On-board graphics card *	✗		
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	4S		
Embedded options available	✗		

Features

PCI Express CEM revision	3.0
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