HP Intel Xeon Gold 6144 processor 3.5 GHz 24.75 MB L3 Tray

Brand : HP

Product code: L19397-001

Product name : Intel Xeon Gold 6144

Intel® Xeon® Gold 6144 Processor (24.75M Cache, 3.50 GHz)
HP Intel Xeon Gold 6144. 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: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: S4S. Processor package size: 76mm x 56.5mm. Maximum internal memory: 768 GB, Maximum internal memory: 786432 MB

Processor	
Processor manufacturer *	Intel
Processor generation	1st Generation Intel® Xeon® Scalable
Processor model *	6144
Processor base frequency *	3.5 GHz
Processor family *	Intel® Xeon® Gold
Processor cores *	8
Processor socket *	LGA 3647 (Socket P)
Component for	Server/workstation
Processor lithography *	14 nm
Processor series	Intel Xeon Gold 6000 Series
Processor threads	16
Processor operating modes *	64-bit
Processor boost frequency	4.2 GHz
Processor cache	24.75 MB
Processor cache type	L3
Thermal Design Power (TDP)	150 W
Package type *	Tray
Cooler included *	✗
Stepping	H0
Bus type	UPI
Processor codename	Skylake
Processor code	SR3TR
Processor ARK ID	124943

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 *	✗

Features	
Execute Disable Bit	✓
Market segment	Server

Processor special features	
Intel Trusted Execution Technology	✓
Intel® Speed Shift Technology	✓
Intel® Transactional Synchronization Extensions	✓
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 TSX-NI version	1.00
Conflict-Free processor	✓
Intel Turbo Boost Max Technology 3.0	✗
Intel® Optane™ Memory Ready	✗
AVX-512 Fused Multiply-Add (FMA) units	2
Intel® Volume Management Device (VMD)	✓
Intel® Run Sure Technology	✓
Mode-based Execute Control (MBE)	✓
Intel® vPro™ Platform Eligibility	✓

Operational conditions	
Tcase	75 °C

Technical details	
Launch date	Q3'17
Processor cache	25344 KB
Product type	4
Status	Launched
Maximum memory	768 GB
Processor brand name	Intel Xeon Gold Intel Xeon Gold Processor
Supported memory types	DDR4-SDRAM
Last change	63903513
Product family	Intel Xeon Processors
Intel® Speed Shift Technology version	1.00
Intel® Run Sure Technology version	1.00

Features	
Maximum number of PCI Express lanes	48
PCI Express slots version	3.0
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512
Scalability	S4S
Embedded options available	✕
PCI Express CEM revision	3.0
Export Control Classification Number (ECCN)	5A992C
Commodity Classification Automated Tracking System (CCATS)	G077159

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	✔

Technical details	
Intel® Volume Management Device (VMD) version	1.00
Memory speed (max)	2666 MHz
Mode-based Execute Control (MBE) version	1.00
Number of UPI links	3

Logistics data	
Harmonized System (HS) code	8542310001

Weight & dimensions	
Processor package size	76mm x 56.5mm

Other features	
Maximum internal memory	768 GB
Maximum internal memory	786432 MB

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