intel

Intel Xeon 6244 processor 3.6 GHz 24.75 MB

Brand : Intel   **Product family:** Xeon   **Product code:** CD8069504194202

Product name : 6244

Intel Xeon Gold 6244 Processor (25MB Cache, up to 4.4 GHz)
Intel Xeon 6244. Processor family: Intel® Xeon® Gold, Processor socket: FCLGA3647, Processor lithography: 14 nm. Memory channels: Hexa-channel, Maximum internal memory supported by processor: 1024 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: 4S. Processor package size: 76mm x 56.5mm. Maximum internal memory: 1000 GB

Processor	
Processor manufacturer *	Intel
Processor generation	2nd Generation Intel® Xeon® Scalable
Processor model *	6244
Processor base frequency *	3.6 GHz
Processor family *	Intel® Xeon® Gold
Processor cores *	8
Processor socket *	FCLGA3647
Component for	Server/workstation
Processor lithography *	14 nm
Processor threads	16
Processor operating modes *	64-bit
Processor boost frequency	4.4 GHz
Processor cache	24.75 MB
Thermal Design Power (TDP)	150 W
Box *	✘
Cooler included *	✘
Processor codename	Cascade Lake
Processor ARK ID	192442

Memory	
Maximum internal memory supported by processor	1024 GB
Memory types supported by processor	DDR4-SDRAM
Memory clock speeds supported by processor	2933 MHz
Memory channels *	Hexa-channel
ECC	✓

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	SSE4.2, AVX, AVX 2.0, AVX-512
Scalability	4S
Embedded options available	✘

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 Turbo Boost Max Technology 3.0	✘
AVX-512 Fused Multiply-Add (FMA) units	2
Intel® Deep Learning Boost (Intel® DL Boost)	✓
Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✘
Intel® Resource Director Technology (Intel® RDT)	✓
Intel® Volume Management Device (VMD)	✓
Intel® Run Sure Technology	✓
Mode-based Execute Control (MBE)	✓
Intel® Optane™ DC Persistent Memory Supported	✓
Intel® vPro™ Platform Eligibility	✓
Intel Speed Select Technology (SST)	✘
Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✘
Intel® Optane™ DC Persistent Memory technology	✓

Operational conditions	
Tcase	74 °C

Technical details	
Launch date	Q2'19
Product type	Processor
Status	Launched
Supported memory types	DDR4-SDRAM
Memory speed (max)	2933 MHz
Number of UPI links	3
Servicing status	Baseline Servicing

Features			**Logistics data**	
PCI Express CEM revision	3.0		Harmonized System (HS) code	85423119
Export Control Classification Number (ECCN)	5A992C		**Weight & dimensions**	
Commodity Classification Automated Tracking System (CCATS)	G077159		Processor package size	76mm x 56.5mm
			Other features	
Processor special features			Maximum internal memory	1000 GB
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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