Lenovo Intel Xeon Gold 6418H Prozessor 2,1 GHz 60 MB



Marke : Lenovo

Artikel-Code: 4XG7A84171

Produktname : Intel Xeon Gold 6418H

Lenovo Intel Xeon Gold 6418H. Prozessorfamilie: Intel® Xeon® Gold, Prozessorsockel: LGA 4677 (Socket E), Prozessor Lithografie: 10 nm. Speicherkanäle: Okta-Kanal, Maximaler interner Speicher, vom Prozessor unterstützt: 4 TB, Speichertypen, vom Prozessor unterstützt: DDR4-SDRAM. Marktsegment: Server, Nutzungsbedingungen: Server/Enterprise, Unterstützte Befehlssätze: AMX, AVX, AVX 2.0, AVX-512, SSE4.2. Unterstützung der maximalen Enklavengröße für Intel® SGX: 512 GB, Intel® Data Streaming Accelerator (DSA): 1 default devices, Intel® In-memory Analytics Accelerator (IAA): 1 default devices

Prozessor	
Prozessorhersteller *	Intel
Prozessorgeneration	Intel Xeon Scalable 4th Gen
Prozessor *	6418H
Grundfrequenz des Prozessors *	2,1 GHz
Prozessorfamilie *	Intel® Xeon® Gold
Anzahl Prozessorkerne *	24
Prozessorsockel *	LGA 4677 (Socket E)
Prozessor Lithografie *	10 nm
Prozessor-Serien	Intel Xeon Gold 6000 Series
Prozessor-Threads	48
Systembus-Rate	16 GT/s
Prozessorbetriebsmodi *	64-Bit
Prozessor Boost-Frequenz	4 GHz
Kerne mit hoher Priorität	8
Frequenz des Kerns mit hoher Priorität	2,3 GHz
Kerne mit niedriger Priorität	16
Frequenz des Kerns mit niedriger Priorität	1,9 GHz
Prozessor-Cache	60 MB
Thermal Design Power (TDP)	185 W
Kühler enthalten *	✗
Stepping	S3
Prozessor Codename	Sapphire Rapids

Speicher	
Maximaler interner Speicher, vom Prozessor unterstützt	4 TB
Speichertypen, vom Prozessor unterstützt	DDR4-SDRAM
Speicherkanäle *	Okta-Kanal
ECC	✓

Grafik	
Eingebaute Grafikadapter *	✗
Separater Grafikadapter *	✗
Eingebautes Grafikkartenmodell *	Nicht verfügbar
Separates Grafikkartenmodell *	Nicht verfügbar

Merkmale	
Execute Disable Bit	✓
Marktsegment	Server

Prozessor Besonderheiten	
Intel® Trusted-Execution-Technik	✓
Intel®-Speed-Shift-Technologie	✓
Intel® Transactional Synchronization Extensions	✓
Intel® Total Memory Encryption	✓
Intel® Control-flow Enforcement Technology (CET)	✓
Intel® Crypto-Beschleunigung	✓
Unterstützung der Intel® Plattform-Firmware Resilience	✓
Unterstützung der maximalen Enklavengröße für Intel® SGX	512 GB
Intel® VT-x mit Extended Page Tables (EPT)	✓
Intel® OS Guard	✓
Intel® Software Guard Extensions (Intel® SGX)	✓
Intel® 64	✓
Intel® Virtualization Technologie (VT-X)	✓
Intel® Virtualisierungstechnik für direkte I/O (VT-d)	✓
AVX-512 Abgesicherte Multiply-Add (FMA) Einheiten	2
Intel® Boot Guard	✓
Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Intel® Speed Select-Technologie - Leistungsprofil (Intel® SST-PP)	✓
Intel® Resource Director Technology (Intel® RDT)	✓
Intel® Run Sure Technology	✓
Modusbasierte Execute Control (MBE)	✓
Intel® Optane™ DC Persistent Memory unterstützt	✓
Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✓
Intel® QuickAssist Software Acceleration	✓
Aktivierung von Intel® On Demand-Funktionen	✓

Merkmale	
Nutzungsbedingungen	Server/Enterprise
Maximale Anzahl der PCI-Express-Lanes	80
PCI-Express-Slots-Version	5.0
Unterstützte Befehlssätze	AMX, AVX, AVX 2.0, AVX-512, SSE4.2
Skalierbarkeit	S4S
Eingebettete Optionen verfügbar	✔

Prozessor Besonderheiten	
Intel® Hyper-Threading-Technik (Intel® HT Technology)	✔
Intel® Turbo-Boost-Technologie	2.0
Intel® AES New Instructions (Intel® AES-NI)	✔

Prozessor Besonderheiten	
Intel® Data Streaming Accelerator (DSA)	1 default devices
Intel® In-memory Analytics Accelerator (IAA)	1 default devices
Intel® Advanced Matrix Extensions (AMX)	✔

Betriebsbedingungen	
Tcase	81 °C
DTS Max	94 °C

Technische Details	
Anzahl der UPI-Links	3

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