Lenovo Intel Xeon Gold 6444Y Prozessor 3,6 GHz 45 MB

Marke : Lenovo

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Produktname : Intel Xeon Gold 6444Y

Lenovo Intel Xeon Gold 6444Y. Prozessorfamilie: Intel® Xeon® Gold, Prozessorsockel: LGA 4677 (Socket E), Prozessorhersteller: Intel. Speicherkanäle: Okta-Kanal, Maximaler interner Speicher, vom Prozessor unterstützt: 6 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: 128 GB

Prozessor	
Prozessorhersteller *	Intel
Prozessorgeneration	Intel Xeon Scalable 4th Gen
Prozessor *	6444Y
Grundfrequenz des Prozessors *	3,6 GHz
Prozessorfamilie *	Intel® Xeon® Gold
Anzahl Prozessorkerne *	16
Prozessorsockel *	LGA 4677 (Socket E)
Prozessor-Threads	32
Systembus-Rate	16 GT/s
Prozessorbetriebsmodi *	64-Bit
Prozessor Boost-Frequenz	4 GHz
Kerne mit hoher Priorität	4
Frequenz des Kerns mit hoher Priorität	3,7 GHz
Kerne mit niedriger Priorität	12
Frequenz des Kerns mit niedriger Priorität	3,2 GHz
Prozessor-Cache	45 MB
Thermal Design Power (TDP)	270 W
Stepping	S3
Prozessor Codename	Sapphire Rapids

Speicher	
Maximaler interner Speicher, vom Prozessor unterstützt	6 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
Nutzungsbedingungen	Server/Enterprise
Maximale Anzahl der PCI-Express-Lanes	80

Prozessor Besonderheiten	
Intel® AES New Instructions (Intel® AES-NI)	✔
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	128 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	✔

Merkmale	
PCI-Express-Slots-Version	5.0
Unterstützte Befehlssätze	AMX, AVX, AVX 2.0, AVX-512, SSE4.2
Skalierbarkeit	2S
Eingebettete Optionen verfügbar	✗

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

Prozessor Besonderheiten	
Aktivierung von Intel® On Demand-Funktionen	✔
Intel® Advanced Matrix Extensions (AMX)	✔

Betriebsbedingungen	
Tcase	75 °C
DTS Max	100 °C

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