Lenovo Intel Xeon Gold 5318Y Prozessor 2,1 GHz 36 MB

Marke : Lenovo

Artikel-Code: 4XG7A63545

Produktname : Intel Xeon Gold 5318Y

Lenovo Intel Xeon Gold 5318Y. Prozessorfamilie: Intel® Xeon® Gold, Prozessorsockel: LGA 4189, Prozessor Lithografie: 10 nm. Speicherkanäle: Okta-Kanal, Maximaler interner Speicher, vom Prozessor unterstützt: 6 TB, Speichertypen, vom Prozessor unterstützt: DDR4-SDRAM. Marktsegment: Server, Unterstützte Befehlssätze: AVX, AVX 2.0, AVX-512, SSE4.2, Skalierbarkeit: 2S. Unterstützung der maximalen Enklavengröße für Intel® SGX: 64 GB

Prozessor	
Prozessorhersteller *	Intel
Prozessorgeneration	Skalierbare Intel® Xeon® der 3. Generation
Prozessor *	5318Y
Grundfrequenz des Prozessors *	2,1 GHz
Prozessorfamilie *	Intel® Xeon® Gold
Anzahl Prozessorkerne *	24
Prozessorsockel *	LGA 4189
Prozessor Lithografie *	10 nm
Prozessor-Serien	Intel Xeon Gold 5000 Series
Prozessor-Threads	48
Systembus-Rate	11,2 GT/s
Prozessorbetriebsmodi *	64-Bit
Prozessor Boost-Frequenz	3,4 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	1,8 GHz
Prozessor-Cache	36 MB
Thermal Design Power (TDP)	165 W
Kühler enthalten *	✗
Prozessor Codename	Ice Lake

Speicher	
Maximaler interner Speicher, vom Prozessor unterstützt	6 TB
Speichertypen, vom Prozessor unterstützt	DDR4-SDRAM
Speichertaktraten, vom Prozessor unterstützt	2933 MHz
Speicherkanäle *	Okta-Kanal
ECC	✓

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

Merkmale	
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)	✓
Intel® Trusted-Execution-Technik	✓
Intel®-Speed-Shift-Technologie	✓
Intel® Transactional Synchronization Extensions	✓
Intel® Total Memory Encryption	✓
Intel® Crypto-Beschleunigung	✓
Unterstützung der Intel® Plattform-Firmware Resilience	✓
Unterstützung der maximalen Enklavengröße für Intel® SGX	64 GB
Intel® VT-x mit Extended Page Tables (EPT)	✓
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® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Intel® Speed Select-Technologie - Leistungsprofil (Intel® SST-PP)	✓
Intel® Resource Director Technology (Intel® RDT)	✓
Intel® Volume Management Device (VMD)	✓
Intel® Run Sure Technology	✓
Modusbasierte Execute Control (MBE)	✓
Intel® Optane™ DC Persistent Memory unterstützt	✓

Merkmale	
Execute Disable Bit	✔
Marktsegment	Server
Maximale Anzahl der PCI-Express-Lanes	64
PCI-Express-Slots-Version	4.0
Unterstützte Befehlssätze	AVX, AVX 2.0, AVX-512, SSE4.2
Skalierbarkeit	2S

Betriebsbedingungen	
Tcase	87 °C

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Publication date: 20-NOV-2026. Prints or copies of Information are only valid on the printed Publication date