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

Marke : Lenovo

Artikel-Code: 4XG7A63546

Produktname : Intel Xeon Gold 5318N

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

Prozessor	
Prozessorhersteller *	Intel
Prozessorgeneration	Skalierbare Intel® Xeon® der 3. Generation
Prozessor *	5318N
Grundfrequenz des Prozessors *	2,1 GHz
Prozessorfamilie *	Intel® Xeon® Gold
Anzahl Prozessorkerne *	24
Prozessorsockel *	LGA 4189
Komponente für	Server/Arbeitsstation
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	2 GHz
Prozessor-Cache	36 MB
Thermal Design Power (TDP)	150 W
Kühler enthalten *	✗
Prozessor Codename	Ice Lake
ARK Prozessorerkennung	215281

Speicher	
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® 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	✔

Betriebsbedingungen	
Tcase	83 °C

Technische Details	
Zielmarkt	Cloud Computing
Startdatum	Q2'21

Merkmale	
Maximale Anzahl der PCI-Express-Lanes	64
PCI-Express-Slots-Version	4.0
Unterstützte Befehlssätze	SSE4.2, AVX, AVX 2.0, AVX-512
Skalierbarkeit	2S
Eingebettete Optionen verfügbar	✔
Exportkontroll-Klassifizierungsnummer (ECCN)	5A992CN3
Warenklassifizierungssystem zur automatisierten Nachverfolgung (CCATS)	G178966

Prozessor Besonderheiten	
Intel® Hyper-Threading-Technik (Intel® HT Technology)	✔

Technische Details	
Status	Launched
Unterstützte Arbeitsspeicher	DDR4-SDRAM
Speichergeschwindigkeit (max.)	2667 MHz
Anzahl der UPI-Links	3
Instandhaltungsstatus	Baseline Servicing

Logistikdaten	
Warentarifnummer (HS)	85423119

Sonstige Funktionen	
RAM-Speicher maximal	6 TB



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Catalog Object Cloud



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