Lenovo Intel Xeon Gold 5218T Prozessor 2,1 GHz 22 MB

Marke : Lenovo

Artikel-Code: 4XG7A37966

Produktname : Intel Xeon Gold 5218T

Lenovo Intel Xeon Gold 5218T. Prozessorfamilie: Intel® Xeon® Gold, Prozessorsockel: LGA 3647 (Socket P), Prozessor Lithografie: 14 nm. Speicherkanäle: Hepta-Kanal, Maximaler interner Speicher, vom Prozessor unterstützt: 1 TB, Speichertypen, vom Prozessor unterstützt: DDR4-SDRAM. Marktsegment: Server, Unterstützte Befehlssätze: AVX, AVX 2.0, AVX-512, SSE4.2, Skalierbarkeit: 4S. Kompatibilität: ThinkSystem SR630

Prozessor	
Prozessorhersteller *	Intel
Prozessorgeneration	Skalierbare Intel® Xeon® der 2. Generation
Prozessor *	5218T
Grundfrequenz des Prozessors *	2,1 GHz
Prozessorfamilie *	Intel® Xeon® Gold
Anzahl Prozessorkerne *	16
Prozessorsockel *	LGA 3647 (Socket P)
Prozessor Lithografie *	14 nm
Prozessor-Threads	32
Prozessorbetriebsmodi *	64-Bit
Prozessor Boost-Frequenz	3,8 GHz
Prozessor-Cache	22 MB
Thermal Design Power (TDP)	105 W
Kühler enthalten *	✗
Prozessor Codename	Cascade Lake

Speicher	
Maximaler interner Speicher, vom Prozessor unterstützt	1 TB
Speichertypen, vom Prozessor unterstützt	DDR4-SDRAM
Speichertaktraten, vom Prozessor unterstützt	2667 MHz
Speicherkanäle *	Hepta-Kanal
ECC	✓

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

Merkmale	
Execute Disable Bit	✓
Marktsegment	Server
Maximale Anzahl der PCI-Express-Lanes	48
PCI-Express-Slots-Version	3.0
Unterstützte Befehlssätze	AVX, AVX 2.0, AVX-512, SSE4.2
Skalierbarkeit	4S
Eingebettete Optionen verfügbar	✓

Prozessor Besonderheiten	
Verbesserte Intel SpeedStep Technologie	✓
Intel® Trusted-Execution-Technik	✓
Intel®-Speed-Shift-Technologie	✓
Intel® Transactional Synchronization Extensions	✓
Intel® VT-x mit Extended Page Tables (EPT)	✓
Intel® TSX-NI	✓
Intel® 64	✓
Intel® Virtualization Technologie (VT-X)	✓
Intel® Virtualisierungstechnik für direkte I/O (VT-d)	✓
Intel Turbo Boost Max Technology 3.0	✗
AVX-512 Abgesicherte Multiply-Add (FMA) Einheiten	1
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	✓
Intel® vPro™ Platform Eligibility	✓
Intel Speed Select Technology (SST)	✗
Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗
Intel® Optane™ DC Persistent Memory-Technologie	✓

Betriebsbedingungen	
Tcase	93 °C

Technische Details	
Anzahl der UPI-Links	2
Instandhaltungsstatus	Baseline

Merkmale	
PCI Express CEM Revision	3.0

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

Sonstige Funktionen	
Kompatibilität	ThinkSystem SR630

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