# Lenovo Intel Xeon Gold 5416S Prozessor 2 GHz 30 MB Einschub

**Marke :** Lenovo

**Artikel-Code:** 4XG7A84178

**Produktname :** Intel Xeon Gold 5416S

Lenovo Intel Xeon Gold 5416S. Prozessorfamilie: Intel® Xeon® Gold, Prozessorsockel: LGA 4677 (Socket E), Verpackungsart: Einschub. Speicherkanäle: Okta-Kanal, Maximaler interner Speicher, vom Prozessor unterstützt: 6 TB, Speichertypen, vom Prozessor unterstützt: DDR5-SDRAM. Marktsegment: Server, Nutzungsbedingungen: Server/Enterprise, Unterstützte Befehlssätze: AMX, SSE4.2, AVX, AVX 2.0, AVX-512. Unterstützung der maximalen Enklavengröße für Intel® SGX: 128 GB, Intel® QuickAssist-Technologie (QAT): 2 default devices, Intel® Dynamic Load Balancer (DLB): 2 default devices. Prozessor-Paketgröße: 77.5 x 56.5 mm

| Prozessor | |
|---|---|
| Prozessorhersteller * | Intel |
| Prozessorgeneration | Intel Xeon Scalable 4th Gen |
| Prozessor * | 5416S |
| Grundfrequenz des Prozessors * | 2 GHz |
| Prozessorfamilie * | Intel® Xeon® Gold |
| Anzahl Prozessorkerne * | 16 |
| Prozessorsockel * | LGA 4677 (Socket E) |
| Prozessor-Serien | Intel Xeon Gold 5000 Series |
| 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 | 2,1 GHz |
| Kerne mit niedriger Priorität | 12 |
| Frequenz des Kerns mit niedriger Priorität | 1,7 GHz |
| Prozessor-Cache | 30 MB |
| Thermal Design Power (TDP) | 150 W |
| Verpackungsart * | Einschub |
| Kühler enthalten * | ✗ |
| Stepping | S3 |
| Prozessor Codename | Sapphire Rapids |
| ARK Prozessorerkennung | 232396 |

| Speicher | |
|---|---|
| Maximaler interner Speicher, vom Prozessor unterstützt | 6 TB |
| Speichertypen, vom Prozessor unterstützt | DDR5-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 |

| Prozessor Besonderheiten | |
|---|---|
| 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 | ✓ |
| Aktivierung von Intel® On Demand-Funktionen | ✓ |
| Intel® QuickAssist-Technologie (QAT) | 2 default devices |
| Intel® Dynamic Load Balancer (DLB) | 2 default devices |
| Intel® Data Streaming Accelerator (DSA) | 1 default devices |

| Merkmale | |
|---|---|
| Maximale Anzahl der PCI-Express-Lanes | 80 |
| PCI-Express-Slots-Version | 5.0 |
| Unterstützte Befehlssätze | AMX, SSE4.2, AVX, AVX 2.0, AVX-512 |
| Skalierbarkeit | 2S |
| Eingebettete Optionen verfügbar | ✗ |
| Exportkontroll-Klassifizierungsnummer (ECCN) | 5A992C |
| Warenklassifizierungssystem zur automatisierten Nachverfolgung (CCATS) | G180729 |

| 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 | ✔ |

| Prozessor Besonderheiten | |
|---|---|
| Intel® Advanced Matrix Extensions (AMX) | ✔ |

| Betriebsbedingungen | |
|---|---|
| Tcase | 79 °C |
| DTS Max | 90 °C |

| Technische Details | |
|---|---|
| Startdatum | Q1'23 |
| Status | Launched |
| Speichergeschwindigkeit (max.) | 4400 MHz |
| Anzahl der UPI-Links | 3 |
| Paketträger | E1B |

| Logistikdaten | |
|---|---|
| Warentarifnummer (HS) | 8542310001 |

| Gewicht und Abmessungen | |
|---|---|
| Prozessor-Paketgröße | 77.5 x 56.5 mm |

| Sonstige Funktionen | |
|---|---|
| RAM-Speicher maximal | 4 TB |

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**Catalog Object Cloud**

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