

Intel Xeon W-2295 processor 3 GHz 24.75 MB

Brand : Intel

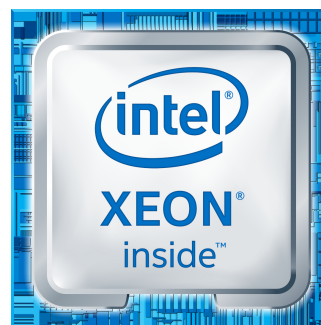
Product family: Xeon

Product code:
CD8069504393000

Product name : W-2295

Intel Xeon W-2295 Processor (24.75MB Cache, up to 4.6 GHz)

Intel Xeon W-2295. Processor family: Intel Xeon W, Processor socket: LGA 2066 (Socket R4), Processor lithography: 14 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 1.02 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Workstation, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: 1S. Intel® Turbo Boost Max Technology 3.0 frequency: 4.8 GHz. Processor package size: 45mm x 52.5mm



| Processor | | Processor special features | |
|------------------------------------------------|----------------------|----------------------------------------------------------|---------|
| Processor manufacturer * | Intel | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ |
| Processor model * | W-2295 | Intel® Identity Protection Technology (Intel® IPT) | ✓ |
| Processor base frequency * | 3 GHz | Intel® Turbo Boost Technology | 2.0 |
| Processor family * | Intel Xeon W | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Processor cores * | 18 | Enhanced Intel SpeedStep Technology | ✓ |
| Processor socket * | LGA 2066 (Socket R4) | Intel Trusted Execution Technology | ✓ |
| Component for | Server/workstation | Intel® Memory Protection Extensions (Intel® MPX) | ✓ |
| Processor lithography * | 14 nm | Intel® Speed Shift Technology | ✓ |
| Processor threads | 36 | Intel® Turbo Boost Max Technology 3.0 frequency | 4.8 GHz |
| System bus rate | 8 GT/s | Intel® Transactional Synchronization Extensions | ✓ |
| Processor operating modes * | 64-bit | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Processor boost frequency | 4.6 GHz | Intel Demand Based Switching | ✓ |
| Processor cache | 24.75 MB | Intel® Secure Key | ✓ |
| Thermal Design Power (TDP) | 165 W | Intel TSX-NI | ✓ |
| Box * | ✗ | Intel® OS Guard | ✓ |
| Cooler included * | ✗ | Intel Software Guard Extensions (Intel SGX) | ✗ |
| Memory bandwidth supported by processor (max) | 93.85 GB/s | Intel 64 | ✓ |
| Processor codename | Cascade Lake | Intel Virtualization Technology (VT-x) | ✓ |
| Processor ARK ID | 198011 | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Memory | | Intel Turbo Boost Max Technology 3.0 | ✓ |
| Maximum internal memory supported by processor | 1.02 TB | Intel® Optane™ Memory Ready | ✗ |
| Memory types supported by processor | DDR4-SDRAM | AVX-512 Fused Multiply-Add (FMA) units | 2 |
| Memory clock speeds supported by processor | 2933 MHz | Intel® Boot Guard | ✓ |
| Memory channels * | Quad-channel | Intel® Deep Learning Boost (Intel® DL Boost) | ✓ |
| ECC | ✓ | Intel® Volume Management Device (VMD) | ✓ |
| Graphics | | Intel® vPro™ Platform Eligibility | ✓ |
| On-board graphics card * | ✗ | Operational conditions | |
| Discrete graphics card * | ✗ | Tcase | 61 °C |
| On-board graphics card model * | Not available | | |
| Discrete graphics card model * | Not available | | |
| Features | | | |
| Execute Disable Bit | ✓ | | |
| Idle States | ✓ | | |
| Thermal Monitoring Technologies | ✓ | | |
| Market segment | Workstation | | |

| Features | | Technical details | |
|------------------------------------------------------------|-------------------------------|-----------------------------|---------------|
| Maximum number of PCI Express lanes | 48 | Launch date | Q4'19 |
| PCI Express slots version | 3.0 | Product type | Processor |
| Supported instruction sets | SSE4.2, AVX, AVX 2.0, AVX-512 | Status | Launched |
| Scalability | 1S | Supported memory types | DDR4-SDRAM |
| Physical Address Extension (PAE) | ✓ | Bus speed | 8 GT/s |
| CPU configuration (max) | 1 | Logistics data | |
| Embedded options available | ✗ | Harmonized System (HS) code | 85423119 |
| Physical Address Extension (PAE) | 46 bit | Weight & dimensions | |
| PCI Express CEM revision | 3.0 | Processor package size | 45mm x 52.5mm |
| Export Control Classification Number (ECCN) | 5A992C | Other features | |
| Commodity Classification Automated Tracking System (CCATS) | G077159 | Maximum internal memory | 1 TB |



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