

Intel Xeon 8164 processor 2 GHz 35.75 MB L3 Box

Brand : Intel

Product family: Xeon

Product code: BX806738164

Product name : 8164

Intel® Xeon® Platinum 8164 Processor
(35.75M Cache, 2.00 GHz)

Intel Xeon 8164. Processor family: Intel® Xeon®, Processor socket: LGA 3647 (Socket P), Processor lithography: 14 nm. Memory channels: Hexa-channel, Maximum internal memory supported by processor: 768 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: S8S. Package type: Retail box. Processor package size: 76mm x 56.5mm



| Processor | | Processor special features | |
|--|--------------------------------------|---|---|
| Processor manufacturer * | Intel | Intel® Speed Shift Technology | ✓ |
| Processor generation | 1st Generation Intel® Xeon® Scalable | Intel® Transactional Synchronization Extensions | ✓ |
| Processor model * | 8164 | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Processor base frequency * | 2 GHz | Intel TSX-NI | ✓ |
| Processor family * | Intel® Xeon® | Intel 64 | ✓ |
| Processor cores * | 26 | Intel Virtualization Technology (VT-x) | ✓ |
| Processor socket * | LGA 3647 (Socket P) | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Component for | Server/workstation | Intel TSX-NI version | 1.00 |
| Processor lithography * | 14 nm | Conflict-Free processor | ✓ |
| Processor threads | 52 | Intel Turbo Boost Max Technology 3.0 | ✗ |
| Processor operating modes * | 64-bit | Intel® Optane™ Memory Ready | ✗ |
| Processor boost frequency | 3.7 GHz | AVX-512 Fused Multiply-Add (FMA) units | 2 |
| Processor cache | 35.75 MB | Intel® Volume Management Device (VMD) | ✓ |
| Processor cache type | L3 | Intel® Run Sure Technology | ✓ |
| Thermal Design Power (TDP) | 150 W | Mode-based Execute Control (MBE) | ✓ |
| Box * | ✓ | Intel® vPro™ Platform Eligibility | ✓ |
| Cooler included * | ✓ | | |
| Stepping | H0 | | |
| Processor codename | Skylake | | |
| Processor code | SR3BB | | |
| Processor ARK ID | 120503 | | |
| Memory | | Operational conditions | |
| Maximum internal memory supported by processor | 768 GB | Tcase | 85 °C |
| Memory types supported by processor | DDR4-SDRAM | Technical details | |
| Memory clock speeds supported by processor | 2666 MHz | Launch date | Q3'17 |
| Memory channels * | Hexa-channel | Processor cache | 36608 KB |
| ECC | ✓ | Product type | Processor |
| | | Status | Launched |
| | | Maximum memory | 768 GB |
| | | Processor brand name | Intel Xeon Platinum Intel Xeon Platinum Processor |
| | | Supported memory types | DDR4-SDRAM |
| | | Last change | 63903513 |
| | | Product family | Intel Xeon Processors |
| | | Intel® Speed Shift Technology version | 1.00 |
| | | Intel® Run Sure Technology version | 1.00 |
| | | Intel® Volume Management Device (VMD) version | 1.00 |
| Graphics | | | |
| On-board graphics card * | ✗ | | |
| Features | | | |
| Execute Disable Bit | ✓ | | |
| Market segment | Server | | |
| Maximum number of PCI Express lanes | 48 | | |
| PCI Express slots version | 3.0 | | |
| Supported instruction sets | SSE4.2, AVX, AVX 2.0, AVX-512 | | |

| Features | | Technical details | |
|--|---------|--|---------------|
| Scalability | S8S | Memory speed (max) | 2666 MHz |
| Embedded options available | ✘ | Mode-based Execute Control (MBE) version | 1.00 |
| PCI Express CEM revision | 3.0 | Number of UPI links | 3 |
| Export Control Classification Number (ECCN) | 5A992C | Logistics data | |
| Commodity Classification Automated Tracking System (CCATS) | G077159 | Harmonized System (HS) code | 85423119 |
| Processor special features | | Packaging data | |
| Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ | Package type | Retail box |
| Intel® Turbo Boost Technology | 2.0 | Weight & dimensions | |
| Intel® AES New Instructions (Intel® AES-NI) | ✓ | Processor package size | 76mm x 56.5mm |
| Enhanced Intel SpeedStep Technology | ✓ | Other features | |
| Intel Trusted Execution Technology | ✓ | Maximum internal memory | 768 GB |
| | | Maximum internal memory | 786432 MB |



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