

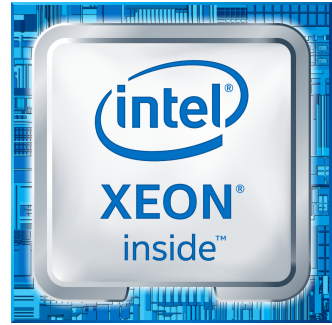
Intel Xeon E-2288G processor 3.7 GHz 16 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
CM8068404224102

Product name : E-2288G



Intel Xeon E-2288G Processor (16MB Cache, up to 5 GHz)
Intel Xeon E-2288G. Processor family: Intel Xeon E, Processor socket: LGA 1151 (Socket H4), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 128 GB, Memory types supported by processor: DDR4-SDRAM. On-board graphics card model: Intel UHD Graphics P630, Maximum on-board graphics card memory: 128 GB, On-board graphics card base frequency: 350 MHz. Market segment: Server, PCI Express configurations: 1x16, 2x8, 1x8+2x4, Supported instruction sets: SSE4.1, SSE4.2, AVX 2.0. Intel® Turbo Boost Technology 2.0 frequency: 5 GHz

| Processor | | Features | |
|--|-------------------------|--|-------------------------|
| Processor manufacturer * | Intel | PCI Express configurations | 1x16, 2x8, 1x8+2x4 |
| Processor model * | E-2288G | Supported instruction sets | SSE4.1, SSE4.2, AVX 2.0 |
| Processor base frequency * | 3.7 GHz | Scalability | 1S |
| Processor family * | Intel Xeon E | CPU configuration (max) | 1 |
| Processor cores * | 8 | Embedded options available | ✗ |
| Processor socket * | LGA 1151 (Socket H4) | PCI Express CEM revision | 3.0 |
| Component for | Server/workstation | Export Control Classification Number (ECCN) | 5A992C |
| Processor lithography * | 14 nm | Commodity Classification Automated Tracking System (CCATS) | G077159 |
| Processor threads | 16 | Processor special features | |
| System bus rate | 8 GT/s | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ |
| Processor operating modes * | 64-bit | Intel® Turbo Boost Technology | 2.0 |
| Processor boost frequency | 5 GHz | Intel® Quick Sync Video Technology | ✓ |
| Processor cache | 16 MB | Intel® InTru™ 3D Technology | ✓ |
| Processor cache type | Smart Cache | Intel® Clear Video HD Technology (Intel® CVT HD) | ✓ |
| Thermal Design Power (TDP) | 95 W | Intel® AES New Instructions (Intel® AES-NI) | ✓ |
| Box * | ✗ | Enhanced Intel SpeedStep Technology | ✓ |
| Cooler included * | ✗ | Intel Trusted Execution Technology | ✓ |
| Processor codename | Coffee Lake | Intel® Memory Protection Extensions (Intel® MPX) | ✓ |
| Processor ARK ID | 193743 | Intel® Turbo Boost Technology 2.0 frequency | 5 GHz |
| Memory | | Intel® Transactional Synchronization Extensions | ✓ |
| Maximum internal memory supported by processor | 128 GB | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Memory types supported by processor | DDR4-SDRAM | Intel® Secure Key | ✓ |
| Memory clock speeds supported by processor | 2666 MHz | Intel TSX-NI | ✓ |
| Memory channels * | Dual-channel | Intel® OS Guard | ✓ |
| ECC | ✓ | Intel Clear Video Technology | ✓ |
| Graphics | | Intel Software Guard Extensions (Intel SGX) | ✓ |
| On-board graphics card * | ✓ | Intel 64 | ✓ |
| Discrete graphics card * | ✗ | Intel Virtualization Technology (VT-x) | ✓ |
| On-board graphics card model * | Intel UHD Graphics P630 | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Maximum on-board graphics card memory | 128 GB | | |
| On-board graphics card base frequency | 350 MHz | | |
| On-board graphics card dynamic frequency (max) | 1200 MHz | | |
| Number of displays supported (on-board graphics) | 3 | | |
| On-board graphics card 4K support | ✓ | | |

| Graphics | | Processor special features | |
|---|--------------------|---|--------------------|
| On-board graphics card DirectX version | 12.0 | Intel® Optane™ Memory Ready | ✓ |
| On-board graphics card OpenGL version | 4.5 | Intel® Boot Guard | ✓ |
| On-board graphics card maximum resolution (DisplayPort) | 4096 x 2304 pixels | Intel® vPro™ Platform Eligibility | ✓ |
| On-board graphics card maximum resolution (eDP - Integrated Flat Panel) | 4096 x 2304 pixels | Operational conditions | |
| On-board graphics card maximum resolution (HDMI) | 4096 x 2160 pixels | Tcase | 67.3 °C |
| On-board graphics card refresh rate at maximum resolution (DisplayPort) | 60 Hz | Tjunction | 100 °C |
| On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel) | 60 Hz | Technical details | |
| On-board graphics card refresh rate at maximum resolution (HDMI) | 24 Hz | Launch date | Q2'19 |
| On-board graphics card ID | 0x3E9A | Maximum resolution & refresh rate (DisplayPort) | 4096x2304@60Hz |
| Discrete graphics card model * | Not available | Product type | Processor |
| Features | | Status | Launched |
| Execute Disable Bit | ✓ | Maximum memory | 128 GB |
| Idle States | ✓ | Supported memory types | DDR4-SDRAM |
| Thermal Monitoring Technologies | ✓ | Bus speed | 8 GT/s |
| Market segment | Server | Maximum graphics card memory | 128 GB |
| Maximum number of PCI Express lanes | 16 | Processor ID | 0x3E9A |
| PCI Express slots version | 3.0 | Servicing status | Baseline Servicing |
| | | Logistics data | |
| | | Harmonized System (HS) code | 85423119 |
| | | Weight & dimensions | |
| | | Processor package size | 37.5mm x 37.5mm |
| | | Other features | |
| | | Maximum internal memory | 128 GB |



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