

## Intel Xeon W-2235 processor 3.8 GHz 8.25 MB

**Brand :** Intel

**Product family:** Xeon

**Product code:**  
CD8069504439102

**Product name :** W-2235

Intel® Xeon® W-2235 Processor (8.25M Cache, 3.80 GHz)

Intel Xeon W-2235. 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, PCI Express configurations: 1x4, 1x8, 1x16, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512. Package width: 44 mm, Package depth: 116 mm, Package height: 101 mm. Processor package size: 45mm x 52.5mm



| Processor                                      |                      | Processor special features                              |       |
|--|----------------------|---|-------|
| Processor manufacturer *                       | Intel                | Intel® Identity Protection Technology (Intel® IPT)      | ✓     |
| Processor model *                              | W-2235               | Intel® Turbo Boost Technology                           | 2.0   |
| Processor base frequency *                     | 3.8 GHz              | Intel Flex Memory Access                                | ✗     |
| Processor family *                             | Intel Xeon W         | Intel® AES New Instructions (Intel® AES-NI)             | ✓     |
| Processor cores *                              | 6                    | 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                              | 12                   | Intel® Transactional Synchronization Extensions         | ✓     |
| System bus rate                                | 8 GT/s               | Intel VT-x with Extended Page Tables (EPT)              | ✓     |
| Processor operating modes *                    | 64-bit               | Intel Demand Based Switching                            | ✓     |
| Processor boost frequency                      | 4.6 GHz              | Intel® Secure Key                                       | ✓     |
| Processor cache                                | 8.25 MB              | Intel TSX-NI  | ✓     |
| Thermal Design Power (TDP)                     | 130 W                | Intel® OS Guard   | ✓     |
| Box *  | ✗                    | Intel Software Guard Extensions (Intel SGX)             | ✗     |
| Cooler included *                              | ✗                    | Intel 64  | ✓     |
| Memory bandwidth supported by processor (max)  | 93.85 GB/s           | Intel Virtualization Technology (VT-x)                  | ✓     |
| Processor codename                             | Cascade Lake         | Intel Virtualization Technology for Directed I/O (VT-d) | ✓     |
| Processor ARK ID                               | 198608               | Intel Turbo Boost Max Technology 3.0                    | ✗     |
| <b>Memory</b>                                  |                      | Intel® Optane™ Memory Ready                             | ✗     |
| Maximum internal memory supported by processor | 1.02 TB              | AVX-512 Fused Multiply-Add (FMA) units                  | 2     |
| Memory types supported by processor            | DDR4-SDRAM           | Intel® Boot Guard                                       | ✓     |
| Memory clock speeds supported by processor     | 2933 MHz             | Intel® Deep Learning Boost (Intel® DL Boost)            | ✓     |
| Memory channels *                              | Quad-channel         | Intel® Volume Management Device (VMD)                   | ✓     |
| ECC  | ✓                    | Intel® vPro™ Platform Eligibility                       | ✓     |
| <b>Graphics</b>                                |                      | <b>Operational conditions</b>                           |       |
| On-board graphics card *                       | ✗                    | Tcase   | 64 °C |
| Discrete graphics card *                       | ✗                    | <b>Technical details</b>                                |       |
| On-board graphics card model *                 | Not available        | Launch date   | Q4'19 |
| Discrete graphics card model *                 | Not available        |   |       |
| <b>Features</b>                                |                      |   |       |
| Execute Disable Bit                            | ✓                    |   |       |
| Idle States                                    | ✓                    |   |       |
| Thermal Monitoring Technologies                | ✓                    |   |       |
| Market segment                                 | Workstation          |   |       |

| Features   |                               | Technical details           |               |
|--|-------------------------------|-----------------------------|---------------|
| Maximum number of PCI Express lanes                      | 48                            | Product type                | Processor     |
| PCI Express slots version                                | 3.0                           | Status                      | Launched      |
| PCI Express configurations                               | 1x4, 1x8, 1x16                | Supported memory types      | DDR4-SDRAM    |
| Supported instruction sets                               | SSE4.2, AVX, AVX 2.0, AVX-512 | Bus speed                   | 8 GT/s        |
| Scalability  | 1S                            | Logistics data              |               |
| Physical Address Extension (PAE)                         | ✓                             | Harmonized System (HS) code | 85423119      |
| CPU configuration (max)                                  | 1                             | Packaging data              |               |
| Embedded options available                               | ✗                             | Package width               | 44 mm         |
| Physical Address Extension (PAE)                         | 46 bit                        | Package depth               | 116 mm        |
| PCI Express CEM revision                                 | 3.0                           | Package height              | 101 mm        |
| Export Control Classification Number (ECCN)              | 5A992C                        | Package type                | Retail box    |
| Commodity Classification                                 |                               | Weight & dimensions         |               |
| Automated Tracking System (CCATS)                        | G077159                       | Processor package size      | 45mm x 52.5mm |
| Processor special features                               |                               | Other features              |               |
| Intel® Hyper Threading Technology (Intel® HT Technology) |                               | Maximum internal memory     | 1 TB          |



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Publication date: 13-MAR-2024. Prints or copies of Information are only valid on the printed Publication date