

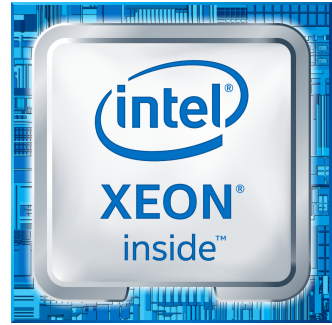
## Intel Xeon W-3245M processor 3.2 GHz 22 MB

Brand : Intel

Product family: Xeon

Product code:  
CD8069504248501

Product name : W-3245M



Intel Xeon W-3245M Processor (22MB Cache, up to 4.4 GHz)

Intel Xeon W-3245M. Processor family: Intel Xeon W, Processor socket: LGA 3647 (Socket P), Processor lithography: 14 nm. Memory channels: Hexa-channel, Maximum internal memory supported by processor: 2.05 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX-512, Scalability: 1S. Intel® Turbo Boost Max Technology 3.0 frequency: 4.6 GHz. Processor package size: 76mm x 56.5mm

| Processor                                      |                     | Processor special features   |           |
|--|---------------------|--|-----------|
| Processor manufacturer *                       | Intel               | Intel Trusted Execution Technology                                   | ✓         |
| Processor model *                              | W-3245M             | Intel® Speed Shift Technology  | ✓         |
| Processor base frequency *                     | 3.2 GHz             | Intel® Turbo Boost Max Technology 3.0 frequency                      | 4.6 GHz   |
| Processor family *                             | Intel Xeon W        | Intel® Transactional Synchronization Extensions                      | ✓         |
| Processor cores *                              | 16                  | Intel VT-x with Extended Page Tables (EPT)                           | ✓         |
| Processor socket *                             | LGA 3647 (Socket P) | Intel TSX-NI   | ✓         |
| Component for                                  | Server/workstation  | Intel 64   | ✓         |
| Processor lithography *                        | 14 nm               | Intel Virtualization Technology (VT-x)                               | ✓         |
| Processor threads                              | 32                  | Intel Virtualization Technology for Directed I/O (VT-d)              | ✓         |
| System bus rate                                | 8 GT/s              | Intel Turbo Boost Max Technology 3.0                                 | ✓         |
| Processor boost frequency                      | 4.4 GHz             | AVX-512 Fused Multiply-Add (FMA) units                               | 2         |
| Processor cache                                | 22 MB               | Intel® Boot Guard  | ✓         |
| Thermal Design Power (TDP)                     | 205 W               | Intel® Deep Learning Boost (Intel® DL Boost)                         | ✓         |
| Box *  | ✗                   | Intel® Speed Select technology - Performance Profile (Intel® SST-PP) | ✗         |
| Cooler included *                              | ✗                   | Intel® Resource Director Technology (Intel® RDT)                     | ✗         |
| Processor codename                             | Cascade Lake        | Intel® Volume Management Device (VMD)                                | ✓         |
| Processor ARK ID                               | 193751              | Intel® Run Sure Technology   | ✓         |
| <b>Memory</b>                                  |                     | Mode-based Execute Control (MBE)                                     | ✓         |
| Maximum internal memory supported by processor | 2.05 TB             | Intel® Optane™ DC Persistent Memory Supported                        | ✗         |
| Memory types supported by processor            | DDR4-SDRAM          | Intel® vPro™ Platform Eligibility                                    | ✓         |
| Memory clock speeds supported by processor     | 2933 MHz            | Intel Speed Select Technology (SST)                                  | ✗         |
| Memory channels *                              | Hexa-channel        | Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)      | ✗         |
| ECC  | ✓                   | Intel® Optane™ DC Persistent Memory technology                       | ✗         |
| <b>Graphics</b>                                |                     | <b>Operational conditions</b>  |           |
| On-board graphics card *                       | ✗                   | Tcase  | 77 °C     |
| Discrete graphics card *                       | ✗                   | <b>Technical details</b>   |           |
| On-board graphics card model *                 | Not available       | Launch date  | Q2'19     |
| Discrete graphics card model *                 | Not available       | Product type   | Processor |
| <b>Features</b>                                |                     |  |           |
| Execute Disable Bit                            | ✓                   |  |           |
| Market segment                                 | Server              |  |           |
| Maximum number of PCI Express lanes            | 64                  |  |           |
| PCI Express slots version                      | 3.0                 |  |           |
| Supported instruction sets                     | AVX-512             |  |           |
| Scalability                                    | 1S                  |  |           |

| Features   |         | Technical details           |               |
|--|---------|-----------------------------|---------------|
| Embedded options available                                 | ✘       | Status                      | Launched      |
| PCI Express CEM revision                                   | 3.0     | Supported memory types      | DDR4-SDRAM    |
| Export Control Classification Number (ECCN)                | 5A992C  | Memory speed (max)          | 2933 MHz      |
| Commodity Classification Automated Tracking System (CCATS) | G077159 | Bus speed                   | 8 GT/s        |
| Processor special features                                 |         | Logistics data              |               |
| Intel® Hyper Threading Technology (Intel® HT Technology)   | ✓       | Harmonized System (HS) code | 8542310001    |
| 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              |               |
|  |         | Maximum internal memory     | 2 TB          |

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