

# What's New This Generation

Intel® Xeon® W-3400 and Intel® Xeon® W-2400 processors deliver a giant leap in performance and expanded platform capabilities.



1. 3rd Generation Intel Deep Learning boost consists of AVX-512, TMUL, and Bfloat 16 instruction sets.

2. Only on Select SKUs, Altering clock frequency or voltage may void any product warranties and reduce stability, security, performance, and life of the processor and other components.

3. Maximum memory speeds are associated with 1DIMM per Channel (1DPC) configurations. Additional DIMM loading on any channel may impact maximum memory speed. Maximum memory capacity is achievable with 2DPC configurations

4. For a full list of Intel vPro platform technologies by product line visit <https://www.intel.com/content/www/us/en/products/details/processors/vpro.html>

# Intel® Xeon® W-3400 Processors SKU Chart

| Processor Number | Processor Cores / Threads | Intel® Smart Cache (L3) | Intel® Turbo Boost Max Technology 3.0 Frequency (GHz) | Intel® Turbo Boost Technology Maximum Single Core Turbo Frequency (GHz) | Processor Base Frequency (GHz) | Unlocked¹ | CPU PCIe Lanes | Maximum Memory Speed (MT/s)² | Memory Channels | Maximum Memory Capacity² | Processor Base Power (W) | Reliability, Availability & Serviceability | Intel Technologies |             |
|------------------|---------------------------|-------------------------|-------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------|-----------|----------------|------------------------------|-----------------|--------------------------|--------------------------|--------------------------------------------|--------------------|-------------|
|                  |                           |                         |                                                       |                                                                         |                                |           |                |                              |                 |                          |                          |                                            | Intel vPro®³       | Intel® ISM³ |
| w9-3495X         | 56/112                    | 105 MB                  | 4.8                                                   | 4.6                                                                     | 1.9                            | √         | 112            | DDR5 4800                    | 8               | 4TB                      | 350                      | ECC, Standard RAS                          | √                  | √           |
| w9-3475X         | 36/72                     | 82.5 MB                 | 4.8                                                   | 4.6                                                                     | 2.2                            | √         | 112            | DDR5 4800                    | 8               | 4TB                      | 300                      | ECC, Standard RAS                          | √                  | √           |
| w7-3465X         | 28/56                     | 75 MB                   | 4.8                                                   | 4.6                                                                     | 2.5                            | √         | 112            | DDR5 4800                    | 8               | 4TB                      | 300                      | ECC, Standard RAS                          | √                  | √           |
| w7-3455          | 24/48                     | 67.5 MB                 | 4.8                                                   | 4.6                                                                     | 2.5                            |           | 112            | DDR5 4800                    | 8               | 4TB                      | 270                      | ECC, Standard RAS                          | √                  | √           |
| w7-3445          | 20/40                     | 52.5 MB                 | 4.8                                                   | 4.6                                                                     | 2.6                            |           | 112            | DDR5 4800                    | 8               | 4TB                      | 270                      | ECC, Standard RAS                          | √                  | √           |
| w5-3435X         | 16/32                     | 45 MB                   | 4.7                                                   | 4.5                                                                     | 3.1                            | √         | 112            | DDR5 4800                    | 8               | 4TB                      | 270                      | ECC, Standard RAS                          | √                  | √           |
| w5-3425          | 12/24                     | 30 MB                   | 4.6                                                   | 4.4                                                                     | 3.2                            |           | 112            | DDR5 4800                    | 8               | 4TB                      | 270                      | ECC, Standard RAS                          | √                  | √           |

Intel® processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families.

All processors are lead-free (per EU RoHS directive July 2006) and halogen free (residual amounts of halogens are below November 2007 proposed IPC/JEDEC J-STD-709 standards).

All processors support Intel® Virtualization Technology (Intel® VT-x).

1. Unlocked features for performance tuning. See altering clock frequency or voltage disclaimer on slide 2.

2. Maximum memory speeds are associated with 1 DIMM per Channel (1DPC) configurations. Additional DIMM loading on any channel may impact maximum memory speed. Maximum memory capacity is achievable with 2DPC configurations.

3. Intel vPro® Enterprise with Intel® Active Management Technology (Intel® AMT) or Intel® Standard Manageability (Intel® ISM) when paired with a motherboard with supporting hardware and software, and potential service activation.

© Intel Corporation. Intel, the Intel logo, and other Intel marks are trademarks of Intel Corporation or its subsidiaries.

Other names and brands may be claimed as the property of others.

Intel technologies may require enabled hardware, software or service activation.

No product or component can be absolutely secure. Your costs and results may vary.

# Intel® Xeon® W-2400 Processors SKU Chart

| Processor Number | Processor Cores / Threads | Intel® Smart Cache (L3) | Intel® Turbo Boost Max Technology 3.0 Frequency (GHz) | Intel® Turbo Boost Technology Maximum Single Core Turbo Frequency (GHz) | Processor Base Frequency (GHz) | Unlocked¹ | CPU PCIe Lanes | Maximum Memory Speed (MT/s)² | Memory Channels | Maximum Memory Capacity² | Processor Base Power (W) | Reliability, Availability & Serviceability | Intel Technologies |             |
|------------------|---------------------------|-------------------------|-------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------|-----------|----------------|------------------------------|-----------------|--------------------------|--------------------------|--------------------------------------------|--------------------|-------------|
|                  |                           |                         |                                                       |                                                                         |                                |           |                |                              |                 |                          |                          |                                            | Intel vPro®³       | Intel® ISM³ |
| w7-2495X         | 24/48                     | 45 MB                   | 4.8                                                   | 4.6                                                                     | 2.5                            | √         | 64             | DDR5 4800                    | 4               | 2TB                      | 225                      | ECC, Standard RAS                          | √                  | √           |
| w7-2475X         | 20/40                     | 37.5 MB                 | 4.8                                                   | 4.6                                                                     | 2.6                            | √         | 64             | DDR5 4800                    | 4               | 2TB                      | 225                      | ECC, Standard RAS                          | √                  | √           |
| w5-2465X         | 16/32                     | 33.75 MB                | 4.7                                                   | 4.5                                                                     | 3.1                            | √         | 64             | DDR5 4800                    | 4               | 2TB                      | 200                      | ECC, Standard RAS                          | √                  | √           |
| w5-2455X         | 12/24                     | 30 MB                   | 4.6                                                   | 4.4                                                                     | 3.2                            | √         | 64             | DDR5 4800                    | 4               | 2TB                      | 200                      | ECC, Standard RAS                          | √                  | √           |
| w5-2445          | 10/20                     | 26.25 MB                | 4.6                                                   | 4.4                                                                     | 3.1                            |           | 64             | DDR5 4800                    | 4               | 2TB                      | 175                      | ECC, Standard RAS                          | √                  | √           |
| w3-2435          | 8/16                      | 22.5 MB                 | 4.5                                                   | 4.3                                                                     | 3.1                            |           | 64             | DDR5 4400⁴                   | 4               | 2TB                      | 165                      | ECC, Standard RAS                          | √                  | √           |
| w3-2425          | 6/12                      | 15 MB                   | 4.4                                                   | 4.2                                                                     | 3.0                            |           | 64             | DDR5 4400⁴                   | 4               | 2TB                      | 130                      | ECC, Standard RAS                          | √                  | √           |
| w3-2423          | 6/12                      | 15 MB                   | 4.2                                                   | 4.0                                                                     | 2.1                            |           | 64             | DDR5 4400⁴                   | 4               | 2TB                      | 110                      | ECC, Standard RAS                          | √                  | √           |

Intel® processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families.

All processors are lead-free (per EU RoHS directive July 2006) and halogen free (residual amounts of halogens are below November 2007 proposed IPC/JEDEC J-STD-709 standards).

All processors support Intel® Virtualization Technology (Intel® VT-x).

1. Unlocked features for performance tuning. See altering clock frequency or voltage disclaimer on slide 2.

2. Maximum memory speeds are associated with 1 DIMM per Channel (1DPC) configurations. Additional DIMM loading on any channel may impact maximum memory speed. Maximum memory capacity is achievable with 2DPC configurations.

3. Intel vPro® Enterprise with Intel® Active Management Technology (Intel® AMT) or Intel® Standard Manageability (Intel® ISM) when paired with a motherboard with supporting hardware and software, and potential service activation.

4. DDR5-4400 MT/s memory speed supported with 1DPC and 2DPC configurations.

© Intel Corporation. Intel, the Intel logo, and other Intel marks are trademarks of Intel Corporation or its subsidiaries.

Other names and brands may be claimed as the property of others.

Intel technologies may require enabled hardware, software or service activation.

No product or component can be absolutely secure. Your costs and results may vary.