



Ignite Your Productivity

Intel Xeon W-1300 processors combine professional performance with platform security and reliability features.



intel
XEON

Designed for visual compute professionals in architecture, construction, engineering, media and entertainment, and scientific industries, Intel Xeon W-1300 processors deliver significant gains in real-world performance. Take your work to the next level with intelligent AI performance, immersive graphics and display, and new PCIe Gen 4 expandability.

Major power. Major productivity.

A redesigned silicon architecture transforms hardware and software efficiency for next-level performance.



Built-in Intel Deep Learning Boost with INT8 (VNNI) drives up to 3X better AI performance¹

Extend Intel VNNI to accelerate AI and machine learning inference performance with Intel Deep Learning Boost with INT8 (VNNI).¹



Up to DDR4-3200 memory support

Support for **DDR4 memory up to 3200MHz** enables lightning-fast multitasking and game-changing business productivity.



20 PCIe Gen 4 lanes

Connect peripherals and extra storage with 20 high-speed PCIe Gen 4 lanes, delivering more I/O vs. previous generation.²

Create with immersive graphics

High-performance graphics provide enhanced experiences for 2D design, 3D CAD, and game development.



5K HDR with Intel UHD Graphics

Enhanced Intel UHD Graphics featuring Intel Iris X[®] Graphics Architecture bring rich media, support for 5K HDR, and intelligent graphics capabilities.

Up to three 4K displays

Integrated HDMI 2.0 and HBR3 power up to three simultaneous 4K displays at 60Hz or a pair of 5K displays at 60Hz for truly immersive experiences.



12-bit AV1 + end-to-end compression

12-bit AV1/HEVC support and end-to-end compression deliver efficient system-wide performance and enhanced media encoding and decoding.

Enterprise-grade security and reliability

Help ensure your work is protected during data-intensive calculations with Intel technologies designed to reduce errors and enhance security.



Protect, detect, and correct with ECC memory

Error Correcting Code (ECC) Memory detects and fixes errors in near real time, helping to ensure the integrity of essential data without interrupting your workflow.



intel
VPRO
PLATFORM

The Intel vPro platform: built for business

Intel Hardware Shield security features help provide peace of mind with hardware-enhanced security and the Intel vPro platform.³



2X faster network speeds

2.5G Intel Ethernet Connection I225 v3 delivers greater than 2X the network speeds of 1Gb Ethernet on existing cabling.⁴

Drive business productivity across mobile and stationary form factors. Upgrade now to Intel Xeon W-1300 processors.



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Performance varies by use, configuration and other factors. Learn more at www.intel.com/PerformanceIndex.

Performance results are based on testing as of dates shown in configurations and may not reflect all publicly available updates. See backup for configuration details. No product or component can be absolutely secure.

Your costs and results may vary.

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

1. Compared to systems without Intel DL Boost. Intel DL Boost. Intel DL Boost 'Up To 3X Average Inference Performance Gains': As measured by the geo mean across multiple deep learning framework workloads (Apache MXNet, TensorFlow, PyTorch, and Caffe). Results for 11th Gen Intel Core desktop processors have been estimated based on measured data comparing 2-socket Intel Xeon Platinum 8280 processor using 8-bit integer operations with Intel Deep Learning Boost on ResNet-50 vs. 2-socket Intel Xeon Platinum 8180 processor using 32-bit floating point operations. Test done by Intel as of 3/1/2019.

2. CPU PCIe lanes are only validated for discrete graphics (x16) and PCIe storage or Intel Optane memory (1x4).

3. OEMs must enable Intel vPro technology and be Intel vPro platform certified. Not all Intel Xeon processor-based systems are Intel vPro platform certified.

4. I225 v1 (B1 stepping) reaches 2.5GbE on select switches/routers. Check out www.intel.com/i225v1 for a list of validated switches/routers. I225 v2 (B2 stepping) is now in production and works at 2.5GbE on all compliant 2.5GbE Link partners.

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