October 7, 2019

Intel Enables AI Acceleration and Brings New Pricing to Intel Xeon W and X-Series Processors

Latest Workstation and High-End Desktop Platforms Purpose-Built for Professional Content Creators and Desktop Enthusiasts

NEWS HIGHLIGHTS

- Intel announces the newest generation of Intel® Xeon® W-2200 and X-series platforms, targeting availability in November.
- With both platforms, Intel continues to trailblaze with artificial intelligence (AI) in computing, enabling AI acceleration with Intel® Deep Learning Boost in high-end desktop (HEDT) PCs and mainstream workstations for the first time.
- Intel introduces new pricing for Xeon, X-series and select Intel® Core™ processors, continuing its charter to deliver more value and accessibility to customers end-to-end across its portfolio of leadership products.

SANTA CLARA, Calif.--(BUSINESS WIRE)-- Intel today unveiled its latest lineup of Intel Xeon W and X-series processors, which puts new classes of computing performance and AI acceleration into the hands of professional creators and PC enthusiasts. Custom-designed to address the diverse needs of these growing audiences, the new Xeon W-2200 and X-series processors are targeted to be available starting November, along with a new pricing structure that represents an easier step up for creators and enthusiasts from Intel Core S-series mainstream products.

This press release features multimedia. View the full release here: https://www.businesswire.com/news/home/20191007005159/en/

Intel introduces the Intel Xeon W-2200 platform in October 2019. Eight new processors deliver outstanding performance and expanded platform capabilities for data science, visual effects, 3D rendering, complex 3D CAD, artificial intelligence development and edge deployments. (Credit: Intel Corporation)

Intel is the only company that delivers a full portfolio of products precision-tuned to handle the sustained compute-intensive workloads used by professional creators and enthusiasts every day. The new Xeon W-2200 and X-series processors take this to the next level, as the first high-end desktop PC and mainstream workstations to feature AI acceleration with the integration of Intel Deep Learning Boost. This offers an AI inference boost of 2.2 times[1] more compared with the prior generation. Additionally, this new lineup features Intel® Turbo Boost Max Technology 3.0, which has been further enhanced to help software, such as for simulation and modeling, run as fast as possible by identifying and prioritizing the fastest available cores.

“The professional and enthusiast communities require product engineering that caters to their specific mission-critical needs and keeps them on the cutting edge of technology advancements. This means the best hardware and software optimizations, but also looking at how we can infuse things like AI acceleration,” said Frank Soqui, Intel vice president and general manager of Desktop, Workstation and Channel Group. “No matter if you are a data scientist, cinema creator or freelancer, Intel Xeon W and X-series offer power and flexibility of choice, enabling you to keep working creatively and competitively across even the most intensive workloads.”

The Ultimate Professional Creator Platform

For professional creators, the Intel Xeon W-2200 platform is the ultimate option. These eight new processors (W-2295, W-2275, W-2265, W-2255, W-2245, W-2235, W-2225 and W-2223) deliver outstanding performance and expanded platform capabilities for data science, visual effects, 3D rendering, complex 3D CAD, AI development and edge deployments. They can be used in configurable form-factors – from small desktop to towers – as well as include built-in platform security features and reliability, such as ECC support and Intel vPro™, which creative professionals demand. For example, the 3D architectural rendering process on Autodesk Revit with V-Ray accelerates up to 10 percent faster[2] compared with the previous generation and up to 2 times faster compared with a 3-year-old workstation[3].

New Xeon W prices range from $294 to $1,333, enabling Intel to build the platform and partners to grow their workstation product options.

For additional product details, visit the Intel Xeon W-2200 product brief.

Bridging the Enthusiast and the Creator

For freelancers, prosumers and desktop enthusiasts who may not need commercial-grade features, Intel Core X-series processors provide the performance with the added flexibility of overclocking[4] capabilities. These four new processors (i9-10980XE, i9-10940X, i9-10920X and i9-10900X) are especially suited for advanced workflows that vary in need for photo/video editing, game development and 3D animation. Additionally, they deliver enthusiast-ready enhanced features, like Intel Performance Maximizer that makes it easy to dynamically and reliably custom-tune the unlocked processors based on the X-series’ individual performance DNA.

New X-series prices range from $590 to $979. With the creator segment’s need for more computing-intensive and specific workloads, the new pricing enables X-series to be more accessible to the creators looking for even more compute-intensive workloads than Intel’s mainstream desktop processors.

For additional product details, visit the Intel X-series product brief.

Additional Pricing Refinements

In addition to Intel Xeon W and X-series, Intel is also introducing new pricing to its Intel Core S-series processors without integrated graphics. Intel is committing to these processors in its long-term roadmap, which has given Intel the opportunity to reset where it fits in the portfolio and pricing. The new prices are effective starting today, with the 9th Gen Intel Core

desktop processors currently in market.

About Intel

Intel (NASDAQ: INTC), a leader in the semiconductor industry, is shaping the data-centric future with computing and communications technology that is the foundation of the world's innovations. The company's engineering expertise is helping address the world's greatest challenges as well as helping secure, power and connect billions of devices and the infrastructure of the smart, connected world – from the cloud to the network to the edge and everything in between. Find more information about Intel at newsroom.intel.com and intel.com.

SKU Table for In

PROCESSOR NUMBER	BASE CLOCK SPEED (GHZ)	INTEL® TURBO BOOST TECHNOLOGY MAX SINGLE CORE TURBO FREQUENCY (GHZ)	ALL CORE TURBO FREQUENCY (GHZ)	INTEL® TURBO BOOST MAX TECHNOLOGY 3.0 FREQUENCY (GHZ)	CORES/ THREADS PER SOCKET	INTEL® SMART CACHE	TOT PLA PCI LAN
Intel® Xeon® W-2295 processor	3.0	4.6	3.8	4.8	18 / 36	24.75 MB	Up t
Intel® Xeon® W-2275 processor	3.3	4.6	4.1	4.8	14 / 28	19.25 MB	Up t
Intel® Xeon® W-2265 processor	3.5	4.6	4.3	4.8	12 / 24	19.25 MB	Up t
Intel® Xeon® W-2255 processor	3.7	4.5	4.3	4.7	10 / 20	19.25 MB	Up t
Intel® Xeon® W-2245 processor	3.9	4.5	4.5	4.7	8 / 16	16.5 MB	Up t
Intel® Xeon® W-2235 processor	3.8	4.6	4.3	N/A	6 / 12	8.25 MB	Up t

Intel® Xeon® W-2225 processor	4.1	4.6	4.5	N/A	4 / 8	8.25 MB	Up t
Intel® Xeon® W-2223 processor	3.6	3.9	3.7	N/A	4 / 8	8.25 MB	Up t

SKU Table for Intel® Core™ X-series Proce

PROCESSOR NUMBER	BASE CLOCK SPEED (GHZ)	INTEL® TURBO BOOST TECHNOLOGY 2.0 FREQUENCY (GHZ)	ALL CORE TURBO SPEED (GHZ)	INTEL® TURBO BOOST MAX TECHNOLOGY 3.0 FREQUENCY (GHZ)	CORES/ THREADS	L3 CACHE	TOTAL PLATFOR PCIE* 3.0 LANES
Intel® Core™ i9-10980XE X-series	3.0	4.6	3.8	4.8	18/36	24.75 MB	Up to 72
Intel® Core™ i9-10940X X-series	3.3	4.6	4.1	4.8	14/28	19.25 MB	Up to 72
Intel® Core™ i9-109200X X-series	3.5	4.6	4.3	4.8	12/24	19.25 MB	Up to 72
Intel® Core™ i9-10900X X-series	3.7	4.5	4.3	4.7	10/20	19.25 MB	Up to 72

Performance results are based on testing as of the date set forth in the configurations and may not reflect all publicly available security updates. See configuration disclosure for details. No product or component can be absolutely secure.

Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark* and MobileMark*, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products. For more complete information about performance and benchmark

results, visit intel.com/benchmarks.

Intel is a sponsor and member of the BenchmarkXPRT Development Community, and was the major developer of the XPRT family of benchmarks. Principled Technologies is the publisher of the XPRT family of benchmarks. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases.

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. No product or component can be absolutely secure. Check with your system manufacturer or retailer or learn more at intel.com.

[1]As measured by AI inference throughput using AIXPRT Community Preview 2 with Int8 precision on ResNet-50 comparing Intel® Xeon® W-2295 vs. Intel® Xeon® W-2195

[2] As measured by Autodesk Revit* 3D architectural model rendering workload comparing Intel® Xeon® W-2295 vs. Intel® Xeon® W-2195

[3] As measured by Autodesk Revit* 3D architectural model rendering workload comparing Intel® Xeon® W-2295 vs. Intel® Xeon® E5-1680 v4

[4]Altering clock frequency or voltage may damage or reduce the useful life of the processor and other system components, and may reduce system stability and performance. Product warranties may not apply if the processor is operated beyond its specifications. Check with the manufacturers of system and components for additional details.

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Source: Intel Corporation