



Over 100 Systems Refreshed to Support Latest Xeon Scalable Processors

Supermicro Delivering Day-One Support for the New 2nd Gen Intel® Xeon® Scalable Processors with 100+ Systems

Today, Supermicro has the industry's broadest portfolio with over 100 X11 systems compatible with the newly announced processors. Supermicro has optimized its X11 server and storage systems to leverage the performance advantages of the latest processors fully. Thermally optimized systems support every new refreshed SKU bringing more cores, frequency, and cache with up to 36% better price-performance or up to 61% lower processor cost for equivalent performance vs. current offerings.

Supermicro is introducing 18 new and refined Intel CPU SKUs across Xeon Gold/Silver/Bronze product families that offer additional performance and value at many of the most popular price points. These SKUs deliver increased frequency, and/or core count, and/or cache as well as lowered price, and/or increased TDP on some SKUs:

- 14 new SKUs across Gold/Silver/Bronze product families
- 1 UP (1-socket) "-U" SKU: 6208U
- 1 high T-case "-T" SKU: 4210T
- 2 new frequency Leadership CLX SKUs: 6256 and 6520

Drop-in upgrade for all X11 Purley UP and DP platforms (MP is tbd); requires BIOS version 3.2 or later.

As we look at the performance benchmarks from our lab, we can see the significant performance improvements on the Supermicro X11 platforms using the new processors:

Supermicro system comparison

Supermicro Systems	SPECrate_Int	SPECrate_fp	LINPACK
6248R vs 6248	30%	27%	43%
6246R vs 6246	34%	23%	34%
6238R vs 6238	24%	15%	20%
5218R vs 5218	18%	11%	21%
4214R vs 4214	9%	6%	18%

4210R vs 4210	6%	4%	13%
3206R vs 3204	34%	49%	100%
Average	26.50%	19%	36%

(Tests were performed on Supermicro X11 Ultra and BigTwin systems with 24x 32GB DDR4-2933MHz memory, SLES 12 with SP4 (kernel: 4.12.14-95.29); SPECrate2017_fp_base, SPECrate2017_int_base, and LINPACK)

The new 2nd Generation Intel® Xeon® Scalable processors provide customers with a high level of performance while reducing power consumption. This is great news for Supermicro and Intel, partners working together from their strengths in processors, storage, motherboards, servers and technology integration to drive exceptional performance, density and value with general-purpose hardware. This will enable us together to provide exceptional value to customers with a great example where both companies are ready to be central to the ramp and success of 5G, IoT, enterprises, and other embedded applications.

For example, before 5G, mobile networks ran almost solely on special-purpose hardware and software. Due to advances in virtualization and containers, new 5G networks can be virtualized and run on high-performance general-purpose hardware from the RAN and Edge to the data center and cloud. Supermicro's systems are a perfect fit for these new deployments, with servers supporting these new processors optimized for each part of the network.

At Supermicro, we aggressively integrate Intel's new technology into our roadmap and will continue to do so as Intel announces future products. For instance, we were very proud of our leadership position with Intel at last April's processor family launch and the same is true now as that processor family expands with new products. The same is true of Intel's advanced storage roadmap. Also, we are collaborating with Intel in IoT, Artificial Intelligence and other areas.

The extensive portfolio of systems includes Supermicro's Ultra, BigTwin™, SuperBlade™, GPU Systems, Workstations, and Rackmounts with 18 new processor offerings that deliver increased frequency, core count, and/or cache to boost the performance and value at many of the most popular price points. When equipped with these new processor models, existing Supermicro X11 platforms deliver higher performance at the same or lower price points. ,

In addition to the newest processors, Supermicro is committed in 2020 to be at the front of the parade with product availability when Intel makes any other new product announcements.

Learn more at Supermicro.com.