Supermicro Delivers Maximum Performance to Power Breakthroughs in a Wide Range of HPC Applications

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Industry's Broadest Selection of HPC Systems on Display at SC18 Including Petascale All-Flash NVMe, BigTwin™, SuperBlade®, and GPU Systems for AI and Deep Learning

DALLAS, Texas, November 13, 2018—Super Micro Computer, Inc. (SMCI), a global leader in enterprise computing, storage, networking solutions and green computing technology, today is demonstrating the industry's broadest selection of new high-performance computing (HPC) systems at SuperComputing 2018 (SC18), in the Kay Bailey Hutchison Convention Center from November 13-15. Supermicro is also hosting several speaker sessions each day at its Booth #3006 including representatives from Intel, NVIDIA, and AMD. For a detailed schedule and more information regarding Supermicro at SC18, visit www.supermicro.com/SC18.

"As a hardware solution company, we are investing heavily in our Resource-Saving server, GPU and storage solutions, including the development of 10-year lifecycle chassis, power supplies, fans and other subsystems, to help end-customers save both energy cost and hardware acquisition costs while reducing IT waste," said Charles Liang, President and CEO of Supermicro. "Resource Saving is measured by TCE (Total Cost to the Environment) which is the combination of delivering superior TCO for datacenter investments while at the same time minimizing the environmental impacts of these data centers. Also, continuing Supermicro's technology innovation and time-to-market leadership, our Petascale 1U NVMe solutions are shipping in volume to provide customers with significant competitive advantage today."

The new Petascale line of all-flash NVMe™ (Non-Volatile Memory Express) 1U storage servers feature the most power-efficient, next-generation flash technology with the highest storage density and best IOPS performance. With systems supporting U.2, Intel Ruler, Samsung NF1, and EDSFF form factor SSDs, Supermicro offers unprecedented flexibility and choice for high-capacity networked storage applications that require the best latency performance and provide a real time-to-value advantage for users with data-intensive HPC workloads.

HPC applications are continuing to grow in complexity as they unlock new scientific insights. Supermicro's new NVIDIA® HGX-2 based SuperServer, 9029GP-TNVRT, supports 16 NVIDIA Tesla® V100 Tensor Core 32GB GPUs connected via NVIDIA NVLink™ and NVSwitch™ to leverage over 80,000 CUDA cores and delivers unmatched performance accelerating AI and HPC on premise and in the cloud. This new system can deliver up to 2 PetaFLOPS of performance and occupies just ten units of rack space.

To help simplify the deployment of AI and HPC applications in the data center, SuperServer 4029GP-TVRT is NGC-Ready. Customers can now run GPU-accelerated software from the NGC container registry, including its expanded HPC and AI software library with new machine learning and analytics containers, with confidence on the 4029GP-TVRT, which is a 4U system with eight Tesla V100 GPUs with NVIDIA NVLink.

Designed to handle the most demanding inference workloads, Supermicro's new SuperServer 6049GP-TRT provides the superior performance required for modern AI. This 4U system achieves maximum GPU density and performance with support for up to 20 NVIDIA Tesla T4 GPUs with Turing Tensor Core technology, three terabytes of memory, and 24 hot-swappable 3.5-inch drives. The system also features four 2000-watt Titanium level efficiency (2+2) redundant power supplies to deliver optimal power efficiency, uptime and serviceability.

Delivering maximum performance and efficiency in a 2U 4-node design, the Supermicro BigTwin™ system supports the full range of Intel® Xeon® Scalable processors, 24 DIMMs, up to six hot-swappable all-flash NVMe or hybrid NVMe/SAS3 drive bays, and up to three PCI-E 3.0 slots including support for a flexible SIOM module enabling 100/40/25/10/1G networking options per node. For reliability and efficiency, redundant 2600W/2200W Titanium Level (96%+) digital power supplies come standard. Supermicro also offers a line of BigTwin systems that support the full range of AMD EPYC™ 7000-series processors including an all-flash NVMe model.

Supermicro is showcasing a breadth of platforms at SC18 that feature Resource-Saving technology and address a wide range of workloads. The new disaggregated SuperBlade® unlocks the interdependence between the major server subsystems enabling the independent upgrade of CPU, Memory, I/O, Enclosure, Storage, Power and Cooling. Now each component can be refreshed at the optimal time to maximize generational improvements in performance and efficiency. SuperBlade® delivers maximum performance up to 495 TFLOPS per rack, high density with twenty 2-socket or ten 4-socket Intel® Xeon® Scalable processor-based blade servers per 8U enclosure, fast interconnects with integrated 100G EDR InfiniBand, 100G Omni-Path or 25G switches, and support for up to 14 NVMe devices per node. For optimal reliability and power-efficiency, SuperBlade® supports redundant 2200-watt Titanium Level (96%+) digital power supplies, 2000-watt DC power supplies, and 1200-watt Battery Backup Power (BBP) modules.

For complete information on SuperServer® solutions from Supermicro, visit www.supermicro.com.

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About Super Micro Computer, Inc. (SMCI)

Supermicro (SMCI), the leading innovator in high-performance, high-efficiency server technology is a premier provider of advanced server Building Block Solutions® for Data Center, Cloud Computing, Enterprise IT, Hadoop/Big Data, HPC and Embedded Systems worldwide. Supermicro is committed to protecting the environment through its "We Keep IT Green®" initiative and provides customers with the most energy-efficient, environmentally-friendly solutions available on the market.

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