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Supermicro® Launches FatTwin™ Architecture

- Innovative New 4U FatTwin SuperServers Offer High-Density Compute and Storage with Energy Saving Designs for PUE Optimized, Free-Air Cooling Data Centers

SAN JOSE, California, June 14, 2012 /PRNewswire/ -- *Super Micro Computer, Inc.* , a global leader in high-performance, high-efficiency server technology and green computing, launches the FatTwin™, a high-capacity powerful new server platform based on Supermicro's highly successful Twin Architecture. This landmark product offers a new, flexible, high-density computing solution for Data Center, Cloud Computing, Enterprise IT, Big Data and HPC applications delivering the highest performance with the most energy efficient technologies and cooling designs available on the market.

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[http://photos.prnewswire.com/prnh/20120614/AQ24697-INFO])

"Energy consumption is one of the greatest challenges facing Data Centers as computing demands increase exponentially around the world," said Charles Liang, President and CEO of Supermicro. "Supermicro is addressing this growing challenge by developing new generation server technologies such as FatTwin which maximizes performance with support of up to 135W processors while eliminating costly air-conditioning and cooling methods. The innovation of FatTwin is in its high-density, airflow optimized design that integrates up to eight dual-processor nodes in a standard 4U rackmount server and operates at temperatures up to 47 degrees C. Our FatTwin platform will set new industry standards for performance and efficiency while offering lowered TCO and an accelerated return on investment."

Supermicro's patented Twin architecture revolutionizes server computing by integrating independent systems side-by-side in a single chassis, multiplying compute density while reducing solution costs through shared resources such as the chassis, fans, power supplies, cabling and rack mount hardware. This innovative architecture incorporates airflow optimized designs, air-shrouds and streamlined cabling which reduces fan speeds and power consumption resulting in improved power utilization and overall energy efficiency. The 4U FatTwin is the latest addition to the evolving Twin architecture line and is available in 8/4/2 DP node configurations with high-capacity storage (8 hot-swap 3.5" HDDs per 1U or 6 hot-swap 2.5" HDDs per 1/2U). FatTwin achieves the highest performance-per-watt/per-dollar with Supermicro's X9 DP (dual-processor) serverboards and redundant Platinum Level high-efficiency (95%+) digital switching power supplies. With free-air cooling designs and an extreme operational temperature range (0 degrees C - 47 degrees C) that does not require air conditioning, the FatTwin helps Data Centers achieve the best power usage effectiveness (PUE < 1.1).

FatTwin is available in 8 DP node (SYS-F617R2-R/F Series) and 4 DP node (SYS-F627R2/R3/G3-F/R Series) SKUs with versatile configurations featuring:

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--  Dual Intel® Xeon® processor E5-2600 series support

    --  Up to 512GB ECC Reg. DDR3-1600MHz SDRAM in 16 DIMM sockets

    --  2x SATA3 (6Gbps) and 4x SATA2 (3Gps) ports supporting RAID 0, 1, 5,10

    --  8x SAS 2.0 (6Gbs) (LSI 2208) RAID 0, 1, 5, 6, 10, 50, 60; (LSI 2308)

        RAID 0, 1, 10

    --  Up to 12x 2.5" or 8x 3.5" hot-swap HDDs (4 node), 6x 2.5" hot-swap HDDs

        (8 node)

    --  3x double-width GPU cards (G3 series)

    --  Up to 3 PCI-E 3.0 x16 or 2 PCI-E 3.0 x16 plus 1 PCI-E 3.0 x16

        (low-profile), 1 PCI-E 3.0 x8 (low profile), and 1 PCI-E 2.0 x4 (low
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    profile)

--  2x 1GbE LAN ports and 56Gbps ConnectX-3 FDR InfiniBand or 10GbE options

--  IPMI 2.0 + KVM w/dedicated LAN

--  Platinum Level high-efficiency (95%+) Digital Switching Power Supplies

--  Supermicro Data Center Manager (DCM), SuperDoctor® III, Watch Dog
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Additional 4U FatTwin configurations are scheduled for release in early Q3 2012 including a 2 node solution featuring massive storage and GPU capacity and a model with 4x full-width 1U nodes that feature increased airflow and high-density compute and storage capacity.

FatTwin delivers maximum performance, efficiency and versatility for scientific, research, engineering, and enterprise organizations requiring high-performance, scalable computing and storage solutions for mission-critical applications. The platform is optimized for process intensive database driven applications including Big Data and Hadoop analytics, gas and oil exploration, computational finance, search engines, design and modeling, simulation and many other applications.

For complete information on Supermicro's new high performance, high-efficiency FatTwin™ architecture, visit www.supermicro.com/FatTwin [http://www.supermicro.com/FatTwin]. For more information on Supermicro's comprehensive line of server, storage and complete integrated SuperRack® solutions visit www.supermicro.com [http://www.supermicro.com/].

About Super Micro Computer, Inc.

Supermicro® , 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, 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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