



November 17, 2014

## Supermicro® Exhibits the Industry's Broadest Range of HPC Optimized Platforms and New Ultra SuperServer® Solutions at Supercomputing '14

-- 1U/2U/4U GPU Servers Support New Tesla K80 GPUs, New Ultra Architecture Maximizes Performance, Density and Efficiency with 160W CPUs, GPU/Xeon Phi Support, 100Gb/s EDR IB, NVMe and Titanium Level Power Supplies

NEW ORLEANS, Nov. 17, 2014 /PRNewswire/ -- **Super Micro Computer, Inc.** (NASDAQ: SMCI), a global leader in high-performance, high-efficiency server, storage technology and green computing highlights new HPC optimized high-density 1U/2U/4U SuperServers supporting the new NVIDIA® Tesla® K80 GPUs (2x memory/up to 2x performance) at Supercomputing 2014 in New Orleans, Louisiana this week. These new systems provide industry leading parallel compute performance and density with support for up to 3x GPUs in 1U and 4x GPUs in 2U and 4U/Tower solutions. Supermicro's new 1U/2U Ultra SuperServer® solutions are also on exhibit integrating best-in-class features including hardware accelerated dual Intel® Xeon® processor E5-2600 v3 CPUs (160W), 24x DIMMs supporting up to 1.5TB 2133MHz DDR4 memory, Intel® Xeon Phi™ coprocessor or NVIDIA® Tesla® GPU support, flexible integrated networking options (1G, 4x 1/10GbE or 10Gbase-T, 2x 10G SFP+) and up to 8x PCI-E 3.0 expansion slots. These innovative server platforms also support the industry's only hot-swap NVMe, 12Gb/s SAS3 and Titanium Level high-efficiency (96%+) digital power supplies.

Additional, exhibits will showcase the latest low-latency, high-bandwidth server/storage solutions supporting Mellanox® EDR 100Gb/s ConnectX-4™ InfiniBand, the industry's widest selection of hot-swap NVMe SSD enabled solutions, servers featuring SanDisk® ULLtraDIMM™ memory channel storage (MCS) technology, SuperStorage clusters supporting Intel® Lustre and high-density compute SuperBlade® and MicroBlade solutions.

"Supermicro is advancing the field of HPC with our new K80 GPU optimized SuperServers and growing line of Ultra series SuperServers featuring industry leading compute, storage and networking technologies," said Charles Liang, President and CEO of Supermicro. "Our latest solutions are delivering greater performance per watt, per square foot with advanced thermal and efficiency design as well as leading edge acceleration technologies such as NVMe and 100Gb/s interconnectivity. Our wide array of complete HPC optimized GPU and Xeon Phi server solutions enable engineering, scientific and research communities with the most sophisticated supercomputing platforms."

Photo - <http://photos.prnewswire.com/prnh/20141115/158849-INFO>

### Solution Highlights

- 1 1U SuperServer® ([SYS-1028GR-TR](#)) - up to 3x NVIDIA Tesla K80 or Intel® Xeon Phi™ Coprocessor  
High density form factor supporting dual Intel® Xeon® E5-2600 v3 (up to 145W), up to 1TB ECC, up to DDR4 2133MHz in 16x DIMMs, 4x hot-swap 2.5" SATA3 drive bays, dual port GbE LAN, Redundant 1600W Platinum Level High-Efficiency (94%) Digital Power Supplies
- 1 2U SuperServer® ([SYS-2028GR-TR](#)) - up to 4x NVIDIA Tesla K80 or Intel® Xeon Phi™ Coprocessor  
Supports dual Intel® Xeon® processor E5-2600 v3, up to 1TB ECC, DDR4 2133MHz in 16x DIMMs, 10x hot-swap 2.5" SATA drive bays, 4x PCI-E 3.0 x16 slots, 1x PCI-E 3.0 x8 (in x16) low-profile slot, dual GbE LAN, 2000W Redundant Platinum-Level high-efficiency (94%+) Digital Power Supplies
- 1 1U Hyper-Speed Ultra SuperServer® ([SYS-1028UX-CR-LL1/-LL2](#))  
Dual accelerated Intel® Xeon® processor E5-2643 v3 (-LL1 SKU) or E5-2687W v3 (-LL2 SKU), 64GB DDR4 in 8x +2133MHz DIMMs, 10x 2.5" hot-swap drive bays, 8x 12Gb/s SAS3, 2x SATA3 (Optional 2x NVMe via AOC-URN2-i2XT), 2x PCI-E 3.0 (x16), Full-height Full-length, 1x PCI-E 3.0 (x8), Low-profile, 1x PCI-E 3.0 (x8) SAS3 integrated, 4x Gigabit Ethernet LAN ports, Integrated IPMI 2.0 with KVM and Dedicated LAN, 750W Redundant Platinum Level High-Efficiency (94%+) Power Supplies
- 1 2U Ultra SuperServer® ([SYS-6028U-TR4+](#))  
Supports dual Intel® Xeon® processor E5-2600 v3, up to 1.5TB ECC, DDR4 2133MHz in 24x DIMMs, supports SanDisk® ULLtraDIMM™, 1x PCI-E 3.0 x16 slot (FH, 10.5" L), 7x PCI-E 3.0 x8 slots (5x FH, 10.5" L, 1x LP, 1x Internal LP), 4x GbE ports, 12x Hot-swap 3.5" Drive Bays; 10x SATA3 ports by default, optional 12x SAS3, redundant 1000W Titanium Level high-efficiency (96%) Digital Power Supplies
- 1 2U TwinPro™ ([SYS-2028TP-DTR](#)) - 1x NVIDIA Tesla or Intel® Xeon Phi™ Coprocessor per node  
2x DP hot-plug nodes each supporting dual Intel® Xeon® processor E5-2600 v3, up to 1TB ECC LRDIMM, 512GB ECC RDIMM, up to 2133MHz in 16x DIMMs, 8x 2.5" hot-swap SATA HDD bays, 1x PCI-E 3.0 x16, 1x PCI-E 3.0 x8 slot and 1x PCI-E 3.0 x16, dual GbE LAN, mSATA (full size) support, 1280W Redundant Platinum-Level high-efficiency

(95%) Digital Power Supplies

- | 2U Cluster-in-a-Box ([CIB](#)) Storage Server ([SSG-2027B-CIB020H](#)) - Microsoft Windows Storage Server 2012 R2 Standard  
2x hot-pluggable systems (nodes), each supporting dual Intel® Xeon® processor E5-2403 (1.8GHz), 20TB raw storage capacity in 24x hot-swap 2.5" SAS1/SAS2 drive bays populated with 4x SSDs and 20x 1TB nearline SAS HDDs, 32GB up to 192GB DDR3 1600MHz ECC reg. DIMM; 6x DIMM sockets (3 per CPU), 3x PCI-E 3.0 slots per node (can be used for host or storage expansion), 2x GbE LAN, SAS 2.0 (6Gb/s) JBOD ports, dual-port 10GBase-T (AOC-STG-i2T) or SFP+ network (AOC-STGN-i2S) Add-on-Card options, 1x 64GB SATA DOM for Windows Server OS boot drive, 920W Redundant Platinum Level high efficiency (95%+) Power Supplies
- | 4U FatTwin™ ([SYS-F628R3-FT](#))  
4x DP hot-plug nodes each supporting dual Intel® Xeon® processor E5-2600 v3 (145W), up to 512GB ECC DDR4 2133MHz in 8x DIMMs, 4x 3.5" Hot-swap SATA HDDs, 1x PCI-E 3.0 x16 (LP) slot, front I/O ports; 2x GbE LAN, 2x USB 2.0, 1x VGA connector, 1280W Redundant Platinum Level high-efficiency (95%) Digital Power Supplies
- | 4U/Tower SuperServer® ([SYS-7048GR-TR](#)) - up to 4x NVIDIA Tesla K80 or Intel® Xeon Phi™ Coprocessor  
Dual Intel Xeon E5-2600 v3 (up to 160W), up to 1TB ECC DDR4 2133MHz in 16x DIMMs, 8x 3.5" hot-swap, 3x fixed 5.25" and 1x fixed 3.5" drive bays, optional Thunderbolt 2.0 AOC, 1x PCI-E 2.0 x4 (in x8) slot, 4x heavy duty fans, 2x exhaust fans, Redundant 2000W Platinum Level High-Efficiency (94%) Digital Power Supplies
- | 2U EX DP 32 DIMM ([SYS-2028UT-BTNRT](#))  
Dual Intel® Xeon® processor E7-8800 v2 / E7-4800 v2 / E7-2800 v2 family (15-Core), 2x 2.5" NVMe HDD bays and 8x hot-swap 2.5" SATA3 HDD bays, up to 2TB ECC DDR3, up to 1600MHz in 32x DIMMs, 2x PCI-E 3.0 x16 FH/HL slots, 1x PCI-E 3.0 x8 MicroLP card, dual 10GBase-T ports, Redundant 1280W Platinum Level High-Efficiency (95%+) Digital Power Supplies
- | New 4U X10 4-Way ([SYS-8018B-TF](#)) 32x DIMMs ([SYS-8048B-TF](#)) 96x DIMMs, 3.5" HDDs  
Supports quad Intel® Xeon® Processor E7-8800/4800 v2 family up to 15 cores, SAS3 up to 48x 2.5" (available) HDD or 24x 3.5" HDD, up to 11x PCI-E slots (4x memory riser cards installed on slot 2,3,6,7), up to 6TB DDR3 RDIMM/LRDIMM in 96 memory DIMM sockets
- | 4U Double-Sided Storage® Server ([SSG-5048R-E1CR36L](#)) - 36x 3.5" Hot-Swappable HDD Bays  
Supports single Intel® Xeon® processor E5-2600 v3, up to 512GB ECC DDR4 2133MHz in 8x DIMMs, 1 PCI-E 3.0 x4 (in x8), 1 PCI-E 3.0 x8 (in x16), 2 PCI-E 3.0 x8, 1 PCI-E 2.0 x2 (in x4), 1 PCI-E 2.0 x4 (in x8), quad GbE LAN ports, 36x 3.5" hot-swap SAS3 HDD Bays (24 front + 12 rear); optional 2x 2.5" Hot-swap HDD bays (rear), dual JBOD expansion ports, 1280W Redundant Platinum Level high-efficiency (94%) Power Supplies
- | 6U X10 [MicroBlade](#)
  - | DP Module ([MBI-6128R-T2](#))  
Dual Intel Xeon E5-2600 v3 (up to 120W), 8x VLP DDR4 RDIMMs (up to 2133 MT/s), 2x 2.5" 6Gb/s SATA3 HDDs/SSDs, Onboard quad-port 1GbE NIC, 1x SATA-DOM
  - | UP Module ([MBI-6118D-T2/-T4](#))  
Intel Xeon E3-1200 V3 ( up to 82W) , Up to 32GB ECC DDR3 1600/1333 MHz VLP UDIMM in 4x DIMMs , 2x 3.5 SATA3 HDD (-T2 SKU) , 4 x 2.5 STAT3 HDD/SSD (-T4 SKU), Onboard 2x GbE Network Communication
  - | 28x Modules, 112x nodes ([MBI-6418A-T7H/T5H](#))  
1x Intel® Atom™ C2750 (8-Core, 2.4GHz) (-T7H SKU) or 1x Intel® Atom™ C2550 (4-Core, 2.4GHz) (-T5H SKU), 2x 2.5Gb/s network connectivity per node, up to 32GB ECC DDR3 1600/1333MHz SO-DIMM in 2x DIMM sockets per node, 1x 2.5" 6Gb/s SATA3 HDD/SSD and 1x SATA3 DOM per node
- | 7U [SuperBlade®](#)
  - | 3x NVIDIA Tesla GPU Blade ([SBI-7127RG3](#))  
Dual Intel Xeon processor E5-2600 v2, up to 512GB RDIMM or 64GB UDIMM in 8x DIMMs, 3x NVIDIA Tesla Kepler K20X/K40x SXM GPUs, 1x SSD or 1x SATA-DOM, dual port GbE LAN, FDR/QDR InfiniBand, 10GbE
  - | 2x NVIDIA Tesla GPU/Intel Xeon Phi Coprocessor Blade ([SBI-7127RG-E](#))  
Dual Intel Xeon processor E5-2600 v2, up to 512GB RDIMM or 64GB UDIMM in 8x DIMMs, 1x SSD or 1x SATA-DOM, dual port GbE LAN, FDR/QDR InfiniBand, 10GbE/FCoE
  - | TwinBlade® ([SBI-7228R-T2F/T2X](#))  
2x DP nodes, each node supporting dual Intel Xeon E5-2600 v3 (up to 145W), up to 512GB reg. ECC LRDIMM, dual port GbE LAN, 2x 2.5" hot-swap SATA3 drive bays, FDR InfiniBand onboard (-T2F SKU) or 10GbE onboard (-T2X SKU)
  - | Processor Blade ([SBI-7147R-S4X/S4F](#))  
Quad Intel® Xeon® E5-4600 v2 processors, up to 1TB LRDIMM, 512GB RDIMM or 128GB UDIMM in 16x DIMMs, 4x 2.5" hot-swap SAS HDD bays, SAS2 RAID 0, 1, 10, dual-port GbE LAN, Mellanox ConnectX-3 Pro EN dual-port IC 10GbE (-S4X SKU) or Mellanox ConnectX-3 single-port FDR 56Gbps InfiniBand, 40/10 GbE support (-S4F SKU)
  - | Storage Blade ([SBI-7128R-C6](#))  
Dual Intel Xeon processor E5-2600 v2, up to 1TB LRDIMM, 512GB RDIMM in 16x DIMMs, 6x 2.5" hot-swap HDD/SSD bays, up to 3x NVMe (option), HW RAID 0, 1, 5, 2G Cache, dual port GbE LAN, FDR/QDR InfiniBand or 10GbE mezzanine HCA
- | 10/1GbE Top-of-Rack [Network Switches](#)
  - | Layer 2/3 Ethernet Switching, link aggregation (LACP), Jumbo frames, VLAN support
  - | SSE-G24-TG4 - 24x RJ45 1Gbps Ethernet ports with 4x SFP Combo ports, 4x 10Gbps Ethernet (CX4, XFP, or

SFP+) ports

┆ SSE-G48-TG4 - 48x RJ45 1Gbps Ethernet ports with 4x SFP Combo ports

┆ SSE-X3348T(R) - 48x RJ45 10Gbps Ethernet ports, (R) reverse airflow model

┆ SSE-X24S / SSE-X3348S(R) - 24x/48x 10Gbps Ethernet (SFP+) ports, (R) reverse airflow option

┆ 1U A+ 4-Way Server ([AS-1042G-TF](#))

Supports quad AMD Opteron™ 6000 series (6300P\* ready) processors (Socket G34) 16/12/8/4-Core ready; HT3.0 Link support, up to 1TB DDR3 Registered ECC 1600/1333/1066 SDRAM in 32x DIMMs, 3x hot-swap SAS/SATA Drive Bays, 1x PCI-e Gen 2.0 x16 slot (Low profile add-on card), dual-port GbE LAN, 1400W high-efficiency Power Supply

┆ 2U A+ 4x DP Hot-Plug Node Server ([AS-2122TG-HTRF](#))

Each node supports dual AMD Opteron™ 6000 series (6300P\* ready) processors (Socket G34) 16/12/8/4-Core ready; HT3.0 Link, up to 512GB DDR3 1600MHz ECC Registered DIMM in 16x DIMMs, 6x 2.5" hot-swap SATA drive bays, 1x Low-profile PCI-E 2.0 in x16 slot, dual-port GbE LAN, 1400W Redundant High-efficiency Power Supplies

Visit Supermicro at SC14 in New Orleans, Louisiana, November 16-21 at the Ernest N. Morial Convention Center, Booth #1515. For more information on Supermicro's complete range of high performance, high-efficiency Server, Storage and Networking solutions, visit [www.supermicro.com](http://www.supermicro.com).

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### **About Super Micro Computer, Inc.**

Supermicro® (NASDAQ: 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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