

SUPERMICR[®]

MicroCloud Solutions

12/8 Modular UP Server Nodes in 3U

New! Intel[®] Xeon[®] E3-1200 V3 Support

12/8 Modular UP Server Nodes in 3U · High-Density · High-Performance · High-Efficiency · Cost-Effective
Easy-to-Service · Space Saving · Optimized for Cloud Computing and Web 2.0

New!

New!



12 Hot-pluggable Nodes in 3U
(Front I/O)

New! SYS-5038ML-H12TRF
SYS-5037MC-H12TRF
AS-3012MA-H12TRF

8 Hot-pluggable Nodes in 3U
(Rear I/O)

New! SYS-5038ML-H8TRF
SYS-5037MC-H86RF/H8TRF
SYS-5037MR-H8TRF

- High density with 12/8 hot-pluggable UP nodes in 3U
- Excellent expansion capability with 1 PCI-E 3.0 x8 LP slot per node
- Up to 2x 3.5" hot-swap or 4x 2.5" fixed SATA3.0 (6Gbps) HDDs per node
- High efficiency Platinum Level (94%) 1+1 redundant power supplies
- IPMI 2.0 remote management plus KVM with dedicated LAN per node
- Intel[®] Xeon[®] processor E5-2600, E3-1200v2/1200 v3 families, or AMD Opteron™ 3000 series
- 130W high-performance CPU support available



 We Power the Cloud



www.supermicro.com/MicroCloud

June 2013

New!



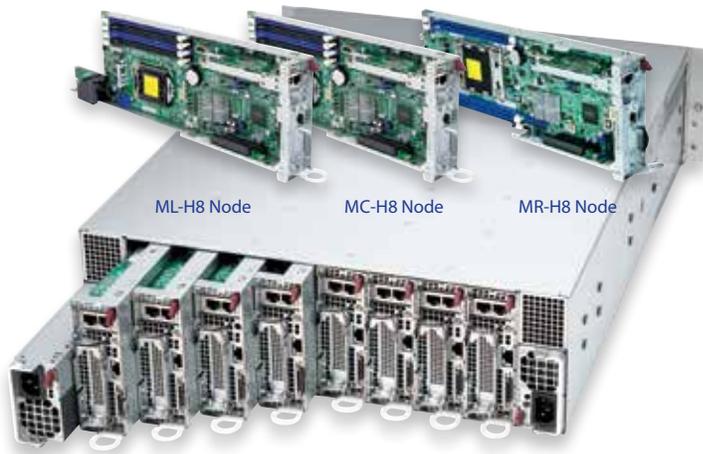
12 Hot-pluggable Nodes in 3U (Front I/O)



(Rear View)

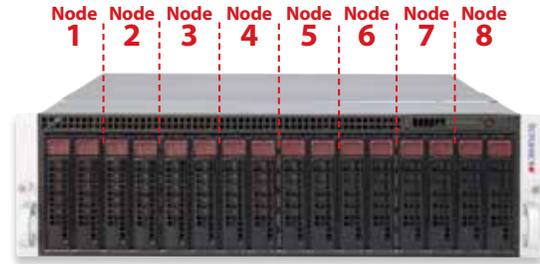
| MODEL | New! SYS-5038ML-H12TRF | SYS-5037MC-H12TRF | AS-3012MA-H12TRF |
|-----------------------------------|--|--|--|
| Processor Support | Intel® 4th Generation Core™ i3 series Intel® Celeron® Intel® Pentium® v Intel® Xeon® processor E3-1200 v3 series, up to 80 Watt CPU | Intel® Xeon® processor E3-1200 v2 series, Intel® 2nd Gen. Core i3 & Intel® Pentium® family processors; socket H2 (LGA 1155), up to 69/(87) Watt CPU | AMD Opteron™ 3000 series 8/4 core processors, up to 65 Watt CPU |
| Key Applications | <ul style="list-style-type: none"> • Cloud Computing • Web Cache, CDN, Video Streaming • Web/Collocating Service • Social networking/download | <ul style="list-style-type: none"> • Cloud Computing • Web Cache, CDN, Video Streaming • Web/Collocating Service • Social networking/download | <ul style="list-style-type: none"> • Cloud Computing • Web Cache, CDN, Video Streaming • Web/Collocating Service • Social networking/download |
| Outstanding Features | <ul style="list-style-type: none"> • High-density, Enterprise Performance, Cost-effective • Multi-node UP server • Up to 12x hot-pluggable node in 3U chassis • 13Watt to 80Watt CPU support • MicroLP card upgradable • 2x 3.5" or 4x 2.5" SATA3.0 (optional) SATA drive bays per node • RAID 0, 1, 10(Optional with 4 x 2.5" drive installed) • IPMI2.0 with KVM over Dedicated LAN for each node • 1620W Redundant Platinum Level Power Supplies | <ul style="list-style-type: none"> • High-density, Enterprise Performance, Cost-effective • Multi-node UP server • Up to 12x hot-pluggable node in 3U chassis • 69/(87) Watt CPU support • MicroLP card upgradable • 2x 3.5" or 4x 2.5" (optional) SATA drive bays per node • RAID 0, 1, 10 (Optional with 4 x 2.5" drive installed) • IPMI 2.0 with KVM over Dedicated LAN for each node • 1620W Redundant Platinum Level Power Supplies | <ul style="list-style-type: none"> • High-density, Enterprise Performance, Cost-effective • Multi-node UP server • Up to 12x hot-pluggable node in 3U chassis • MicroLP card upgradable • 2x 3.5" or 4x 2.5" (optional) SATA drive bays per node • RAID 0, 1, 10 (Optional with 4 x 2.5" drive installed) • IPMI 2.0 with KVM over Dedicated LAN for each node • 1620W Redundant Platinum Level Power Supplies |
| Serverboard | SUPERMICRO® X10SLE-F | SUPERMICRO® X9SCE-F | A+ H8SME-F |
| Chipset | Intel® C224 PCH chipset | Intel® C204 PCH chipset | AMD SR5650 / SP5100 |
| System Memory (Max.) | Twelve set of 4 DIMM sockets (Per Node) Up to 32GB DDR3 EEC VLP-UDIMM 1600/1333 | Twelve set of 4 DIMM Sockets (Per Node) Up to 32GB DDR3 ECC VLP-UDIMM 1600/1333/1066 | Twelve set of 4 DIMM Sockets (Per Node) Up to 32GB DDR3 ECC VLP-UDIMM 1600/1333/1066 |
| Expansion slot | Twelve MicroLP Slots | Twelve MicroLP slots | Twelve MicroLP slots |
| Onboard Storage Controller | Twelve Intel® C224 controller for 4 SATA3 (6Gbps) ports; RAID 0,1 | Twelve Intel C204 for 2 SATA3 (6Gbps); RAID 0, 1 | Twelve AMD SP5100 for 4 SATA |
| Connectivity | Twelve Dual LAN Intel® i350 GbE LAN controller (w/ MicroLP card) | Twelve Dual LAN Intel® i350 GbE LAN controller (w/ MicroLP card) | Twelve Dual LAN Intel® i350 GbE LAN controller (w/ MicroLP card) |
| VGA/Audio | Twelve Aspeed AST2400 graphic | Twelve Matrox® G200eW graphics | Twelve Matrox® G200eW graphics |
| Management | Twelve set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® III, Watch Dog, NMView | Twelve set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® III, Watch Dog, NMView | Twelve set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® III, Watch Dog, NMView |
| Drive Bays | Twelve set of 2x 3.5" SATA3 or 4x 2.5" (optional) SATA3 drive bays (internal) | Twelve set of 2x 3.5" SATA3 or 4x 2.5" (optional) SATA drive bays (internal) | Twelve set of 2x 3.5" SATA2 or 4x 2.5" (optional) SATA drive bays (internal) |
| Power Supply | 1620W Redundant Platinum Level (94%) high-efficiency power supplies | 1620W Redundant Platinum Level (94%) high-efficiency power supplies | 1620W Redundant Platinum Level (94%) high-efficiency power supplies |
| Cooling System | 4x 9cm Heavy duty fans with optimal cooling zone | 4x 9cm Heavy duty fans with optimal cooling zone | 4x 9cm Heavy duty fans with optimal cooling zone |
| Form Factor | 3U Rackmount 444.5 x 132.5 x 749.3mm (17.5" x 5.21" x 29.5") | 3U Rackmount 444.5 x 132.5 x 749.3mm (17.5" x 5.21" x 29.5") | 3U Rackmount 444.5 x 132.5 x 749.3mm (17.5" x 5.21" x 29.5") |

New!



8 Hot-pluggable Nodes in 3U (Rear I/O)

8 Hot-pluggable Nodes in 3U (Rear I/O)



(Front View)
16x 3.5" hot-swap SATA3 drive bays
2 HDDs per node

New!

| MODEL | SYS-5038ML-H8TRF | SYS-5037MC-H8TRF SYS-5037MC-H86RF | SYS-5037MR-H8TRF |
|-----------------------------------|--|--|---|
| Processor Support | Intel® 4th Generation Core™ i3 series Intel® Celeron® Intel® Pentium® v Intel® Xeon® processor E3-1200 v3 series, up to 84 Watt CPU | Intel® Xeon® processor E3-1200 v2 series, Intel® 2nd Gen. Core i3 & Intel® Pentium® family processors; socket H2 (LGA 1155), up to 95 Watt CPU | Intel® Xeon® processor E5-2600 series, socket R (LGA 2011), up to 130 Watt CPU |
| Key Applications | <ul style="list-style-type: none"> • Cloud Computing • Web Cache, CDN, Video Streaming • Web/Collocating Service • Social networking/download • High-density, Enterprise Performance, Cost-effective • Multi-node UP server • Up to 8x hot-pluggable node in 3U chassis • 13 Watt to 84 Watt CPU support • Hot Swappable SAS/SATA HDD | <ul style="list-style-type: none"> • Cloud Computing • Web Cache, CDN, Video Streaming • Web/Collocating Service • Social networking/download • High-density, Enterprise Performance, Cost-effective • Multi-node UP server • Up to 8x hot-pluggable node in 3U chassis • 95 Watt CPU support • Hot swappable SAS/SATA HDDs | <ul style="list-style-type: none"> • Cloud Computing • Web Cache, CDN, Video Streaming • Web/Collocating Service • Social networking/download • High-density, High-performance, Cost-effective • Multi-node UP server • Up to 8x hot-pluggable node in 3U chassis • 130 Watt CPU support • Hot swappable SATA HDDs |
| Outstanding Features | <ul style="list-style-type: none"> • Expansion Slot support • Cable-less design • MicroLP card upgradable • IPMI2.0 with KVM over Dedicated LAN for each node • 1620W Redundant Platinum Level Power Supplies | <ul style="list-style-type: none"> • Expansion slot support • Cable-less design • IPMI 2.0 with KVM over Dedicated LAN for each node • 1620W Redundant Platinum Level Power Supplies | <ul style="list-style-type: none"> • Expansion slot support • Cable-less design • MicroLP card upgradable • IPMI 2.0 with KVM over Dedicated LAN for each node • 1620W Redundant Platinum Level Power Supplies |
| Serverboard | SUPER [®] X10SLD-F | -H8TRF: SUPER [®] X9SCD-F -H86RF: SUPER [®] X9SCD+-HF | SUPER [®] X9SRD-F |
| Chipset | Intel® C224 chipset | Intel® C204 PCH chipset | Intel® C602J chipset |
| System Memory (Max.) | Eight set of 4 DIMM Sockets (Per Node) Up to 32GB* DDR3 ECC 1600/1333MHz UDIMMs | Eight set of 4 DIMM Sockets (Per Node) Up to 32GB* DDR3 ECC 1600/1333MHz UDIMMs | Eight set of 4 DIMM Sockets (Per Node) Up to 128GB* ECC DDR3 1600 MHz SDRAM |
| Expansion slot | Eight PCI-E 3.0 x 8 (low profile) slots | Eight PCI-E 3.0 x 8 (low profile) slots | Eight PCI-E 3.0 x 8 (low profile) slots |
| Onboard Storage Controller | Eight Intel® C224 controller for 4 SATA3 (6 Gbps) ports; RAID 0,1; Select low profile AOC SAS card to support SAS drive HW RAID 0,1 | -H8TRF: Eight Intel® C204 for 2 SATA3 (6Gbps); RAID 0,1 -H86RF: Select low profile AOC SAS card to support SAS drive HW RAID 0,1 | Eight Intel® C602J for 2 SATA3 (6Gbps); RAID 0, 1 |
| Connectivity | Eight Dual LAN Intel® i350 GbE LAN controller | Eight Dual LAN Intel® 82580DB GbE LAN controller | Eight Dual LAN Intel® i350 GbE LAN controller |
| VGA/Audio | Eight Aspeed AST2400 graphic | Eight Matrox® G200eW graphics | Eight Matrox® G200eW graphics |
| Management | Eight set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® III, Watch Dog, NMView | Eight set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® III, Watch Dog, NMView -H8TRF: Eight set of 2x 3.5" Hot swap SATA 3(6Gbps) HDDs -H86RF: Eight set of 2x 3.5" Hot swap SAS/SATA HDDs | Eight set of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® III, Watch Dog, NMView |
| Drive Bays | Eight set of 2x 3.5" hot-swap SAS/SATA3 (6Gbps) HDDs | Eight set of 2x 3.5" Hot swap SAS/SATA HDDs | Eight 2x 3.5 hot-swap SATA3 (6Gbps) drive bays |
| Power Supply | 1620W Redundant Platinum Level (94%)high-efficiency power supplies | 1620W Redundant Platinum Level (94%)high-efficiency power supplies | 1620W Redundant Platinum Level (94%) high-efficiency power supplies |
| Cooling System | 4x 8cm Heavy duty fans with optimal cooling zone | 4x 8cm Heavy duty fans with optimal cooling zone | 4x 8cm Heavy duty fans with optimal cooling zone |
| Form Factor | 3U Rackmount 438.4 x 132.5 x 589mm (17.26" x 5.21" x 23.2") | 3U Rackmount 438.4 x 132.5 x 589mm (17.26" x 5.21" x 23.2") | 3U Rackmount 438.4 x 132.5 x 589mm (17.26" x 5.21" x 23.2") |

SUPERMICRO® MicroCloud Server Solutions

The Supermicro MicroCloud modular server system provides the high density, performance, efficiency and cost savings required for today's demanding server deployments. The 12/8 modular server nodes are conveniently integrated into a compact 3U chassis that is only 29.5/23.2 inches deep, saving over 72% of rack space when compared to traditional 1U servers optimized for the best performance per rack. The cable-less, hot-pluggable server nodes operate independently. Each node provides up to 128GB of DDR3-1600/1333MHz of ECC LR/RDIMM memory, one PCI-E 3.0 x8 expansion slot for low-profile add-on card, and two 3.5" or four 2.5" SATA 3.0 (6Gbps) hard disk drives. The MicroCloud system utilizes redundant Platinum Level (94%) high-efficiency power supplies and sophisticated cooling zone controls for a Green energy profile. Each node is powered by processors from either the newest Intel® Xeon® E3-1200v2 & E3-1200 v3 families (5037MC and 5038ML models) or E5-2600 family up to 130W TDP; or the 8/4-Core AMD Opteron™ 3000 series.

Supermicro MicroCloud Applications:

- Web Servers, Collocation Services
- CDN, Video Streaming, and Downloads
- Enterprise/Corporate Server (WINS, DNS, Print, LDAP, AD, ...)
- Web 2.0 Applications such as Social Media Marketing, Ecommerce, Customer Support
- Ideal for Scale-out Applications with Virtualization
- Server Farms with Single Tenancy Server Requirements



- ✓ High Density, Enterprise Performance, Cost-Effective
- ✓ High Efficiency, Easy-to-Service, Space Saving
- ✓ Optimized for Cloud Computing and Web 2.0



Cloud Computing



Search Engine



Web Servers



Enterprise IT



File System



Video Streaming

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