# MicroCloud

**SUPERMICRO®**

## 24/12/8 UP Server Nodes in 3U

*New!* **Intel® Atom Processor C2750 Series / Xeon® E5-2600 v2 / E3-1200 v3 Product Families Support**

**High-Density, High-Performance · High-Efficiency, and Cost-Effective**
**Easy-to-Service · Space Saving · Optimized for Cloud Computing and Web Hosting**

*New!*
Atom™ (Avoton)

**24** UP Nodes or

**12** Hot-Pluggable sleds in 3U

**SYS-5038MA-H24TRF**
Up to 24x 2.5" SATA3 HDDs,
or 48x 2.5" slim SDDs
Intel® Atom™ C2750

**24** UP Nodes / **12** Hot-pluggable sleds in 3U
*(SYS-5038ML-H24TRF)*
*Intel® Xeon® E3-1200 v3 Family Support*

**12** Hot-pluggable Nodes in 3U
*(SYS-5038ML-H12TRF / SYS-5037MC-H12TRF*
*/ AS-3012MA-H12TRF)*
*Intel® Xeon® E3-1200 v3 / AMD Opteron 3000 Family Support*

**8** Hot-pluggable Nodes in 3U
*(SYS-5037-MC-H8TRF / SYS-5037MC-H86RF / SYS-5037MR-H8TRF)*
*Intel® Xeon® E5-2600 v2 / E3-1200 v3 / E3-1200 vs Family Support*

- **High density with 24/12/8 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® processor Atom™ C2750, Xeon® E5-2600 v2 and E3-1200 v2 / 1200 v3 families, AMD Opteron™ 3000 series**
- **Up to 130W high-performance CPU support available**

X10
X9
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# 24 UP Nodes in 3U (Front I/O)
## Intel® Atom Processor C2000 Series Product Family Support
Up to 24x 2.5" SATA3 HDDs Intel® Avoton Support

*New!*

4x 2.5" SATA HDD bays

*(Rear View)*

| MODEL | SYS-5038MA-H24TRF *(Available as a complete system*)* |
|---|---|
| **Processor Support** | 24 sets of single Intel® Atom processor C2750 (20W, 8-Core) |
| **Key Applications** | • CDN<br>• Hosting & Application delivery<br>• Web Cache<br>• Web Server<br>• Memcache |
| **Outstanding Features** | • 24x Avoton Nodes in 12 hot-plug sleds, 2 nodes per sled<br>• 1620W Redundant Platinum Level High-Efficiency power supplies<br>• 2 Gigabit Ethernet Ports per Node<br>• 32GB of DDR3 Unb. VLP ECC Memory per Node<br>• Best Performance per Rack<br>• High-density, Enterprise Class Performance, Cost-effective<br>• 2x 2.5" SATA 3.0 (6Gbps) HDDs per node |
| **Serverboard** | SUPER® A1SA2-2750F |
| **Chipset** | Avoton SOC |
| **System Memory (Max.)*** | 24 sets of up to 32GB Unbuffered ECC, VLP DDR3-1600MHz in 4 DIMM Sockets |
| **Expansion Slots** | N/A |
| **Onboard Storage Controller** | 24 sets of Intel® Avoton for SATA3 (6Gbps) ports; RAID 0,1 |
| **Connectivity** | 24 sets of Dual port GbE |
| **VGA/Audio** | 24 sets of Aspeed AST 2400 Graphics |
| **Management** | 12 sets of IPMI 2.0 + KVM with dedicated LAN (1 set shared between 2 nodes) |
| **Drive Bays** | 24 sets of 2 x 2.5" SATA 3.0 HDDs fixed per node |
| **Power Supply** | 1620W Redundant Platinum Level High-Efficiency power supplies |
| **Cooling System** | 4x 9cm Heavy duty fans with optimal cooling zone |
| **Form Factor** | 3U Rackmount<br>444.5 x 132.5 x 749.3mm (17.5" x 5.21" x 29.5") |

* Integrated with memory and HDD as a standard configuration. Please contact your Supermicro sales representative for more information

# 24 UP Nodes in 3U (Front I/O)
## Intel® Xeon® Processor E3-1200 v3 Product Family Support
Up to 24x 2.5" SATA3 HDDs, or 48x 2.5" slim SSD total

*New!*

2x 2.5" SATA3 (6Gbps) HDDs per sled or
4x 2.5" slim SSD per sled with optional kit

*(Rear View)*

| MODEL | SYS-5038ML-H24TRF (*Available as a complete system\**) |
|---|---|
| Processor Support | 24 sets of single Intel® Xeon® processor E3-1200 v3 product family; Intel® 4th Generation Core™ i3 series Intel® Celeron® Intel® Pentium®, Socket H3 (LGA 1150) up to 80W CPU |
| Key Applications | • Cloud Computing<br>• Web Cache, CDN, Video Streaming<br>• Web/Collocating Service<br>• Social networking/download |
| Outstanding Features | • 24x UP Nodes in 12 hot-plug sled, 2 nodes per sled<br>• 2000W Redundant Platinum Level Digital high-efficiency power supplies<br>• 2x 2.5" SATA3 (6Gbps) HDDs or 4x 2.5" slim SDD w/ optional kit per sled<br>• High-density, Enterprise Performance, Cost-effective<br>• IPMI 2.0 + KVM with dedicated LAN<br>• Multi-node UP server<br>• UID LED |
| Serverboard | SUPER®X10SLE-DF |
| Chipset | Intel® C224 chipset |
| System Memory (Max.)* | 24 sets of up to 32GB Unbuffered ECC, VLP DDR3-1600 MHz in 4 DIMM sockets |
| Expansion Slots | N/A |
| Onboard Storage Controller | 24 sets of Intel® C224 controller for 4 SATA3 (6Gbps) ports; RAID 0,1 |
| Connectivity | 24 sets of Dual LAN Intel® i350 GbE LAN controller |
| VGA/Audio | 24 sets of Aspeed AST2400 graphics |
| Management | 12 sets of IPMI 2.0 + KVM with dedicated LAN (1 set shared between 2 nodes); SuperDoctor®, Watch Dog, SPM |
| Drive Bays | 24 sets of 1x 2.5" SATA3 fixed HDDs or 2x 2.5" slim SSD w/ optional kit |
| Power Supply | 2000W Redundant Platinum Level Digital high-efficiency power supplies |
| Cooling System | 4x 9cm Heavy duty fans with optimal cooling zone |
| Form Factor | 3U Rackmount<br>444.5 x 132.5 x 791.2mm (17.5" x 5.21" x 31.15") |

* Integrated with CPU, memory and HDD as a standard configuration. Please contact your Supermicro sales representative for more information

# 12 Hot-pluggable Nodes in 3U (Front I/O)
## Intel® Xeon® Processor E3-1200 v3 Product Family Support

Up to 24x 3.5" SATA3 HDDs (2 HDDs per Node)

(2x 3.5" HDDs/Node)

(4x 2.5" HDDs/Node)

*(Rear View)*

| MODEL | SYS-5038ML-H12TRF |
|---|---|
| **Processor Support** | 12 sets of single Intel® Xeon® processor E3-1200 v3 product family; Intel® 4th Generation Core™ i3 series Intel® Celeron® Intel® Pentium®; Socket H3 (LGA 1150) up to 80W CPU |
| **Key Applications** | • Cloud Computing<br>• Web Cache, CDN, Video Streaming<br>• Web/Collocating Service<br>• Social networking/download |
| **Outstanding Features** | • 12x Hot-plug UP Nodes in 3U<br>• 1620W Redundant Platinum Level high-efficiency power supplies<br>• 4x 2.5" SATA / 2x 3.5 HDDs per node<br>• High-density, Enterprise Performance, Cost-effective<br>• IPMI 2.0 + KVM with dedicated LAN<br>• Multi-node UP server<br>• UID LED |
| **Serverboard** | SUPER●®X10SLE-F |
| **Chipset** | Intel® C224 chipset |
| **System Memory (Max.)** | 12 sets of up to 32GB Unbuffered ECC, VLP DDR3-1600 MHz in 4 DIMM sockets |
| **Expansion slot** | 12 sets of Micro-LP slots (Micro-LP upgradeable) |
| **Onboard Storage Controller** | 12 sets of Intel® C224 controller for 4 SATA3 (6Gbps) ports; RAID 0,1 |
| **Connectivity** | 12 sets of Dual LAN Intel® i350 GbE LAN controller |
| **VGA/Audio** | 12 sets of Aspeed AST2400 graphics |
| **Management** | 12 sets of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® III, Watch Dog, SPM |
| **Drive Bays** | 12 sets of 2x 3.5" SATA3 fixed HDDs or 4x 2.5" fixed SATA3 HDDs w/ optional kit |
| **Power Supply** | 1620W Redundant Platinum Level high-efficiency power supplies |
| **Cooling System** | 4x 9cm Heavy duty fans with optimal cooling zone |
| **Form Factor** | 3U Rackmount<br>444.5 x 132.5 x 749.3mm (17.5" x 5.21" x 29.5") |

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

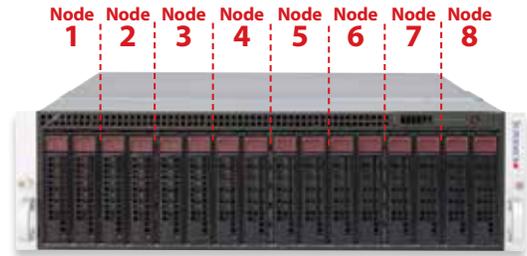### Up to 24x 3.5" SATA3 HDDs (2 HDDs per Node)

(2x 3.5" HDDs/Node)

(4x 2.5" HDDs/Node)

*(Rear View)*

| MODEL | SYS-5037MC-H12TRF | AS-3012MA-H12TRF |
|---|---|---|
| **Processor Support** | 12 sets of single Intel® Xeon® processor E3-1200 v2 product family, Intel® 2nd & 3rd Gen. Core i3 & Intel® Pentium® family processors; socket H2 (LGA 1155), up to 69W CPU | 12 sets of AMD Opteron™ 3000 series 8/4 core processors, up to 65W CPU |
| **Key Applications** | • Cloud Computing<br>• Web Cache, CDN, Video Streaming<br>• Web/Collocating Service<br>• Social networking/download | • Cloud Computing<br>• Web Cache, CDN, Video Streaming<br>• Web/Collocating Service<br>• Social networking/download |
| **Outstanding Features** | • 12x Hot-plug UP Nodes in 3U<br>• High-density, Enterprise Performance, Cost-effective<br>• 69W CPU support<br>• Micro-LP card upgradeable<br>• Up to 4x 2.5" / 2x 3.5" HDD per node<br>• IPMI 2.0 with KVM over Dedicated LAN for each node<br>• 1620W Redundant Platinum Level Power Supplies | • High-density, Enterprise Performance, Cost-effective Multi-node UP server<br>• Up to 12x hot-pluggable node in 3U chassis<br>• MicroLP card upgradeable<br>• 2x 3.5" or 4x 2.5" (optional) SATA drive bays per node<br>• RAID 0, 1, 10 (Optional with 4 x 2.5" drive installed)<br>• IPMI 2.0 with KVM over Dedicated LAN for each node<br>• 1620W Redundant Platinum Level Power Supplies |
| **Serverboard** | SUPER●®X9SCE-F | A+ H8SME-F |
| **Chipset** | Intel® C204 PCH chipset | AMD SR5650 / SP5100 |
| **System Memory (Max.)** | 12 sets of up to 32GB Unbuffered ECC, VLP DDR3-1600/1333 MHz in 4 DIMM sockets | 12 sets of up 32GB DDR3 ECC VLP-UDIMM 1600/1333/1066 MHz in 4 DIMM Sockets |
| **Expansion slot** | 12 sets of Micro-LP slots (Micro-LP upgradeable) | 12 sets of Micro-LP slots |
| **Onboard Storage Controller** | 12 sets of Intel® C204 for 2 SATA3 (6Gbps); RAID 0, 1 | 12 sets of AMD SP5100 for 4 SATA; RAID 0,1 |
| **Connectivity** | 12 sets of Dual LAN Intel® i350 GbE LAN controller | 12 sets of Dual LAN Intel® i350 GbE LAN controller (w/ MicroLP card) |
| **VGA/Audio** | 12 sets of Matrox® G200eW graphics | 12 sets of Matrox® G200eW graphics |
| **Management** | 12 sets of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® III, Watch Dog, SPM | 12 sets of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® III, Watch Dog |
| **Drive Bays** | 12 sets of 2x 3.5" SATA3 or 4x 2.5" SATA (2x SATA3 + 2x SATA2) HDDs with optional kit | 12 sets of 2x 3.5" SATA2 or 4x 2.5" (optional) SATA drive bays (internal) |
| **Power Supply** | 1620W Redundant Platinum Level high-efficiency power supplies | 1620W Redundant Platinum Level high-efficiency power supplies |
| **Cooling System** | 4x 9cm Heavy duty fans with optimal cooling zone | 4x 9cm Heavy duty fans with optimal cooling zone |
| **Form Factor** | 3U Rackmount<br>444.5 x 132.5 x 749.3mm (17.5" x 5.21" x 29.5") | 3U Rackmount<br>444.5 x 132.5 x 749.3mm (17.5" x 5.21" x 29.5") |

# 8 Hot-pluggable Nodes in 3U (Rear I/O)
## Intel® Xeon® Processor E5-2600 v2 / E3-1200 v3 Product Family Support
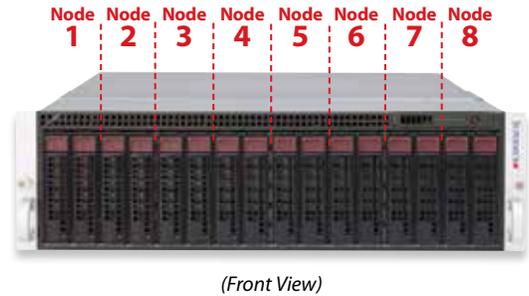Up to 16x 3.5" SATA3 HDDs (2 HDDs per Node)

*MR-H8 Node*

*ML-H8 Node*

| Node 1 | Node 2 | Node 3 | Node 4 | Node 5 | Node 6 | Node 7 | Node 8 |

*(Front View)*

| MODEL | SYS-5037MR-H8TRF | SYS-5038ML-H8TRF<br>SYS-5038ML-H8TRF-OEM |
|---|---|---|
| Processor Support | 8 sets of single Intel® Xeon® processor E5-2600 v2 product family,<br>up to 130W CPU | 8 sets of single Intel® Xeon® processor E3-1200 v3 product family; Intel® 4th Generation Core™ i3 series Intel® Celeron® Intel® Pentium®, Socket H3 (LGA 1150) up to 84W CPU |
| Key Applications | • Cloud Computing<br>• Web Cache, CDN, Video Streaming<br>• Web/Collocating Service<br>• Social networking/download | • Cloud Computing<br>• Web Cache, CDN, Video Streaming<br>• Web/Collocating Service<br>• Social networking/download |
| Outstanding Features | • 8x Hot-plug UP Nodes in 3U<br>• High-density, High-performance, Cost-effective<br>• Multi-node UP server<br>• 130W CPU support<br>• Hot-swappable SATA HDD<br>• Expansion slot support<br>• Cable-less design<br>• Micro-LP card upgradeable<br>• IPMI 2.0 with KVM over Dedicated LAN for each node<br>• 1620W Redundant Platinum Level Power Supplies | • 8x Hot-plug UP Nodes in 3U<br>• 1 PCI-E x8 slot<br>• 1620W Redundant Platinum Level high-efficiency power supplies<br>• High-density, Enterprise Performance, Cost-effective<br>• IPMI 2.0 + KVM with dedicated LAN<br>• Multi-node UP server<br>• Hot-swappable SAS/SATA3 (6gbps) HDDs<br>• UID LED |
| Serverboard | SUPER●®X9SRD-F | SUPER●®X10SLD-F<br>SUPER●®X10SLE-HF (-OEM) |
| Chipset | Intel® C602J chipset | Intel® C224 chipset / C226 (-OEM) |
| System Memory (Max.) | 8 sets of up to 128GB ECC Registered DDR3-1866/1600 MHz in 4 DIMM sockets | 8 sets of up to 32GB Unbuffered ECC, DDR3-1600 MHz in 4 DIMM sockets |
| Expansion slot | 8 sets of PCI-E 3.0 x8 (low profile) and<br>8 sets of Micro-LP slots (Micro-LP upgradeable) | 8 sets of PCI-E 3.0 x8 (low-profile) and<br>8 sets of Micro-LP slots (Micro-LP upgradeable) |
| Onboard Storage Controller | 8 sets of Intel® C602J for 2 SATA3 (6Gbps);<br>RAID 0, 1 | 8 sets of Intel® C224 controller for 2 SATA3 (6Gbps) ports;<br>RAID 0,1;<br>Selected low-profile RAID or HBA RAID card to support SAS HDD |
| Connectivity | 8 sets of Dual LAN Intel® i350 GbE LAN controller | 8 sets of Dual LAN Intel® i350 GbE LAN controller |
| VGA/Audio | 8 sets of Matrox® G200eW graphics | 8 sets of Aspeed AST2400 graphics |
| Management | 8 sets of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® III, Watch Dog, SPM | 8 sets of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® III, Watch Dog, SPM |
| Drive Bays | 8 sets of 2 x 3.5" hot-swap SATA3 (6Gbps) drive bays | 8 sets of 2x 3.5" hot-swap SAS/SATA3 (6Gbps) HDDs |
| Power Supply | 1620W Redundant Platinum Level high-efficiency power supplies | 1620W Redundant Platinum Level high-efficiency power supplies |
| Cooling System | 4x 8cm Heavy duty fans with optimal cooling zone | 4x 8cm Heavy duty fans with optimal cooling zone |
| Form Factor | 3U Rackmount<br>438.4 x 132.5 x 589mm (17.26" x 5.21" x 23.2") | 3U Rackmount<br>438.4 x 132.5 x 589mm (17.26" x 5.21" x 23.2") |

# **8** Hot-pluggable Nodes in 3U (Rear I/O)
## Intel® Xeon® Processor E5-2600 v2 / E3-1200 v3 Product Family Support
### Up to 16x 3.5" SATA3 HDDs (2 HDDs per Node)



MC-H8 Node



| Node 1 | Node 2 | Node 3 | Node 4 | Node 5 | Node 6 | Node 7 | Node 8 |

*(Front View)*

| MODEL | SYS-5037MC-H8TRF<br>SYS-5037MC-H8TRF-OEM | SYS-5037MC-H86RF |
|---|---|---|
| **Processor Support** | 8 sets of single Intel® Xeon® processor E3-1200 v2 product family, Intel® 2nd & 3rd Gen. Core i3 & Intel® Pentium® family processors; socket H2 (LGA 1155), up to 95W CPU | 8 sets of single Intel® Xeon® processor E3-1200 v2 product family, Intel® 2nd & 3rd Gen. Core i3 & Intel® Pentium® family processors; socket H2 (LGA 1155), up to 95W CPU |
| **Key Applications** | • Cloud Computing<br>• Web Cache, CDN, Video Streaming<br>• Web/Collocating Service<br>• Social networking/download | • Cloud Computing<br>• Web Cache, CDN, Video Streaming<br>• Web/Collocating Service<br>• Social networking/download |
| **Outstanding Features** | • 8x Hot-plug UP Nodes in 3U<br>• High-density, Enterprise Performance, Cost-effective<br>• Multi-node UP server<br>• 95W CPU support<br>• Hot-swappable SATA HDD<br>• Expansion slot support<br>• Cable-less design<br>• IPMI 2.0 with KVM over Dedicated LAN for each node<br>• 1620W Redundant Platinum Level Power Supplies | • 8x Hot-plug UP Nodes in 3U<br>• High-density, Enterprise Performance, Cost-effective<br>• Multi-node UP server<br>• 95W CPU support<br>• Hot-swappable SAS/SATA HDD<br>• Expansion slot support<br>• Cable-less design<br>• IPMI 2.0 with KVM over Dedicated LAN for each node<br>• 1620W Redundant Platinum Level Power Supplies |
| **Serverboard** | SUPER●®X9SCD-F<br>SUPER●®X9SCD+-F (-OEM) | SUPER●®X9SCD+-HF |
| **Chipset** | Intel® C204 PCH chipset | Intel® C204 PCH chipset |
| **System Memory (Max.)** | 8 sets of up to 32GB Unbuffered ECC, DDR3 1600/1333 MHz in 4 DIMM sockets | 8 sets of up to 32GB Unbuffered ECC, DDR3 1600/1333 MHz in 4 DIMM sockets |
| **Expansion slot** | 8 sets of PCI-E 3.0 x8 (low profile) and<br>8 sets of Micro-LP slots | 8 sets of PCI-E 3.0 x8 (low profile) and<br>8 sets of Micro-LP slots |
| **Onboard Storage Controller** | 8 sets of Intel® C204 for 2 SATA3 (6Gbps); RAID 0,1 | 8 sets of 2 SATA/SAS HDD w/ selected RAID or HBA card |
| **Connectivity** | 8 sets of Dual LAN Intel® 82580DB GbE LAN controller | 8 sets of Dual LAN Intel® 82580DB GbE LAN controller |
| **VGA/Audio** | 8 sets of Matrox® G200eW graphics | 8 sets of Matrox® G200eW graphics |
| **Management** | 8 sets of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® III, Watch Dog, SPM | 8 sets of IPMI 2.0 + KVM with dedicated LAN, SuperDoctor® III, Watch Dog, SPM |
| **Drive Bays** | 8 sets of 2x 3.5" hot-swap SATA 3(6Gbps) HDDs | 8 sets of 2x 3.5" hot-swap SAS/SATA HDDs |
| **Power Supply** | 1620W Redundant Platinum Level high-efficiency power supplies;<br>920W Redundant Platinum Level high-efficiency power supplies (-OEM) | 1620W Redundant Platinum Level high-efficiency power supplies |
| **Cooling System** | 4x 8cm Heavy duty fans with optimal cooling zone | 4x 8cm Heavy duty fans with optimal cooling zone |
| **Form Factor** | 3U Rackmount<br>438.4 x 132.5 x 589mm (17.26" x 5.21" x 23.2") | 3U Rackmount<br>438.4 x 132.5 x 589mm (17.26" x 5.21" x 23.2") |

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We Power the Cloud

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