



MicroCloud

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



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® E5-2600v2/E3-1200v3/E3-1200vs 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



www.supermicro.com/MicroCloud

May 2014

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



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 • Hosting & Application delivery • Web Cache • Web Server • Memcache
Outstanding Features	• 24x Avoton Nodes in 12 hot-plug sleds, 2 nodes per sled • 1620W Redundant Platinum Level High-Efficiency power supplies • 2 Gigabit Ethernet Ports per Node • 32GB of DDR3 Unb. VLP ECC Memory per Node • Best Performance per Rack • High-density, Enterprise Class Performance, Cost-effective • 2x 2.5" SATA 3.0 (6Gbps) HDDs per node
Serverboard	SUPER [®] A15A2-2750F
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 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!



(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 • Web Cache, CDN, Video Streaming • Web/Collocating Service • Social networking/download
Outstanding Features	• 24x UP Nodes in 12 hot-plug sled, 2 nodes per sled • 2000W Redundant Platinum Level Digital high-efficiency power supplies • 2x 2.5" SATA3 (6Gbps) HDDs or 4x 2.5" slim SSD w/ optional kit per sled • High-density, Enterprise Performance, Cost-effective • IPMI 2.0 + KVM with dedicated LAN • Multi-node UP server • 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 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)



(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 • Web Cache, CDN, Video Streaming • Web/Collocating Service • Social networking/download
Outstanding Features	• 12x Hot-plug UP Nodes in 3U • 1620W Redundant Platinum Level high-efficiency power supplies • 4x 2.5" SATA / 2x 3.5 HDDs per node • High-density, Enterprise Performance, Cost-effective • IPMI 2.0 + KVM with dedicated LAN • Multi-node UP server • 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 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)



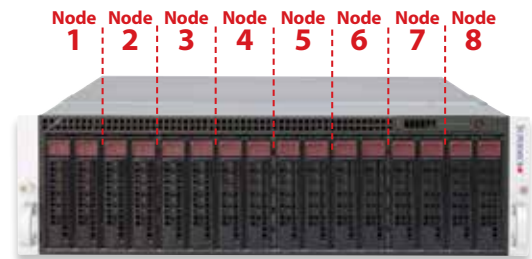
(Rear View)

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 • Web Cache, CDN, Video Streaming • Web/Collocating Service • Social networking/download	• Cloud Computing • Web Cache, CDN, Video Streaming • Web/Collocating Service • Social networking/download
Outstanding Features	• 12x Hot-plug UP Nodes in 3U • High-density, Enterprise Performance, Cost-effective • 69W CPU support • Micro-LP card upgradeable • Up to 4x 2.5" / 2x 3.5" HDD per node • IPMI 2.0 with KVM over Dedicated LAN for each node • 1620W Redundant Platinum Level Power Supplies	• High-density, Enterprise Performance, Cost-effective Multi-node UP server • Up to 12x hot-pluggable node in 3U chassis • MicroLP card upgradeable • 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	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 to 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 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")

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)



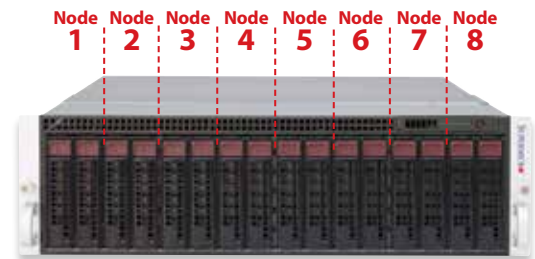
(Front View)

MODEL	SYS-5037MR-H8TRF	SYS-5038ML-H8TRF SYS-5038ML-H8TRF-OEM
Processor Support	8 sets of single Intel [®] Xeon [®] processor E5-2600 v2 product family, 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 - Web Cache, CDN, Video Streaming - Web/Collocating Service - Social networking/download	- Cloud Computing - Web Cache, CDN, Video Streaming - Web/Collocating Service - Social networking/download
Outstanding Features	8x Hot-plug UP Nodes in 3U - High-density, High-performance, Cost-effective - Multi-node UP server 130W CPU support - Hot-swappable SATA HDD - Expansion slot support - Cable-less design - Micro-LP card upgradeable - IPMI 2.0 with KVM over Dedicated LAN for each node 1620W Redundant Platinum Level Power Supplies	8x Hot-plug UP Nodes in 3U 1 PCI-E x8 slot 1620W Redundant Platinum Level high-efficiency power supplies - High-density, Enterprise Performance, Cost-effective - IPMI 2.0 + KVM with dedicated LAN - Multi-node UP server - Hot-swappable SAS/SATA3 (6gbps) HDDs - UID LED
Serverboard	SUPER [®] X9SRD-F	SUPER [®] X10SLD-F 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 8 sets of Micro-LP slots (Micro-LP upgradeable)	8 sets of PCI-E 3.0 x8 (low-profile) and 8 sets of Micro-LP slots (Micro-LP upgradeable)
Onboard Storage Controller	8 sets of Intel [®] C602J for 2 SATA3 (6Gbps); RAID 0, 1	8 sets of Intel [®] C224 controller for 2 SATA3 (6Gbps) ports; RAID 0,1; 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 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")

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)



(Front View)

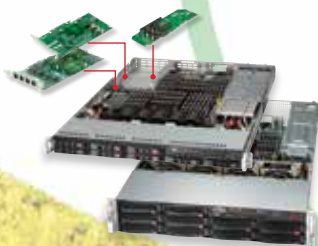
MODEL	SYS-5037MC-H8TRF SYS-5037MC-H8TRF-OEM	SYS-5037MC-H86RF
Processor Support	8 sets of single Intel [®] Xeon [®] processor E3-1200 v2 product family, Intel [®] 2nd & 3rd Gen. Core i3 & Intel [®] Pentium [®] family processors; socket H2 (LGA 1155), up to 95W CPU	8 sets of single Intel [®] Xeon [®] processor 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 - Web Cache, CDN, Video Streaming - Web/Collocating Service - Social networking/download	- Cloud Computing - Web Cache, CDN, Video Streaming - Web/Collocating Service - Social networking/download
Outstanding Features	8x Hot-plug UP Nodes in 3U - High-density, Enterprise Performance, Cost-effective - Multi-node UP server 95W CPU support - Hot-swappable SATA HDD - Expansion slot support - Cable-less design - IPMI 2.0 with KVM over Dedicated LAN for each node 1620W Redundant Platinum Level Power Supplies	8x Hot-plug UP Nodes in 3U - High-density, Enterprise Performance, Cost-effective - Multi-node UP server 95W CPU support - Hot-swappable SAS/SATA HDD - Expansion slot support - Cable-less design - IPMI 2.0 with KVM over Dedicated LAN for each node 1620W Redundant Platinum Level Power Supplies
Serverboard	SUPER [®] X9SCD-F 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 8 sets of Micro-LP slots	8 sets of PCI-E 3.0 x8 (low profile) and 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; 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 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")

We Keep IT Green®

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Twin System



FatTwin™
8/4 Nodes in 4U
Front or Rear I/O



2UTwin²®
4 DP Nodes in 2U



Comprehensive Server, Storage and Networking Product Lines
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