SUPERMICRO®

MicroCloud

24/12/8 UP Nodes in 3U Optimized for Web Hosting, CDN and Social Networking

New! **Intel® Xeon® Processor E5-2600 v4, Intel® Xeon® Processor E3-1200 v5 and Intel® Xeon® Processor D Product Families Supported**

3U 24 UP Nodes (Front I/O)
SYS-5038MD-H24TRF

3U 12 UP Nodes (Front I/O)
SYS-5039MS-H12TRF

3U 8 UP Nodes (Rear I/O)
SYS-5039MS-H8TRF

- **24/12/8 UP nodes in 3U with variety of processor choices:**
  - **12/8 Intel® Xeon® processor E3-1200 v5 nodes**
  - **24/8 Intel® Xeon® processor D nodes**
  - **24 Intel® Atom™ processor C2750 nodes**
  - **24/12/8 Intel® Xeon® processor E3-1200 v4/v3 nodes**
  - **8 Intel® Xeon® processor E5-2600 v2 nodes**
- **Up to 512GB ECC 3DS LRDIMM**
- **PCI-E 3.0 x8 Micro-LP I/O for networking upgradability and expansion**
- **Individual node operation with hot-swappable HDD / PSU / Fans for high serviceability**
- **Redundant hot-swappable high-efficiency power supplies**
- **IPMI 2.0 remote management plus KVM with dedicated LAN per node**
- **Complete system solutions with Supermicro certified components**

intel® inside™

www.supermicro.com/MicroCloud

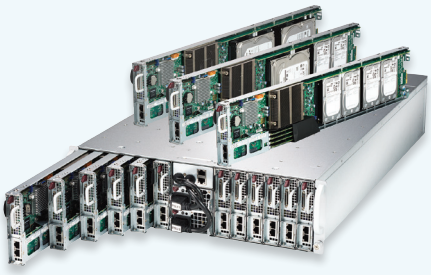
August 2016

Intel® Xeon® Processor Product Families Supported

MicroCloud

24/12/8 Modular UP Server Nodes in 3U • High-Density, High-Performance • High-Efficiency, and Cost-Effective • Easy-to-Service • Space Saving, Optimized for Cloud Computing and Web Hosting

New!

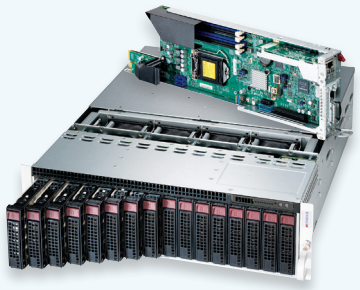


SYS-5039MS-H12TRF

12 UP Nodes

12 set of 2x 3.5" SATA3 HDD; or 4x 2.5" SATA3; or
2x 2.5" ***NVMe*** + 2x 2.5" SATA3; or
2x 2.5" ***NVMe*** + 1x 3.5" SATA3

New!



SYS-5038MD-H8TRF

8 UP Nodes

45W 8-core SoC
8 sets of 2x 3.5" SATA 3 HDD; or
2x 2.5" SATA 3 w/ optional kits
4x M.2 support

New!

SYS-5038MD-H24TRF

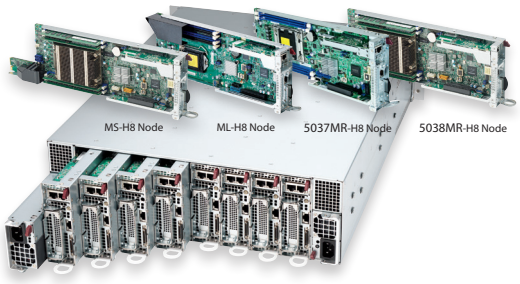
24 UP Nodes

45W 6-core SoC
24 set of 2 x 2.5" SATA3 HDD; or
24 set of 4x 2.5" Slim SSD w/ optional kit

SYS-5039MS-H12TRF (Skylake)
SYS-5038ML-H12TRF / H12TRFG (Haswell)

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

4x 2.5" HDDs/Node

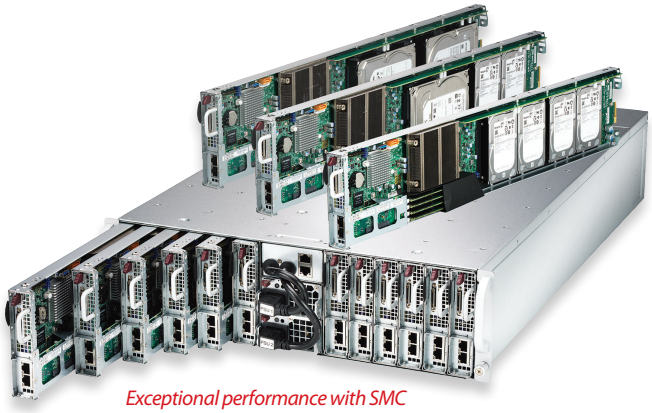


SYS-5038MD-H8TRF (XeonD)
SYS-5039MS-H8TRF (Skylake)
SYS-5038ML-H8TRF/OEM (Haswell)
SYS-5038MR-H8TRF (Broadwell)

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

The Supermicro MicroCloud modular server system provides the high density, performance, efficiency and cost effectiveness required for today's demanding server deployments. The 24/12/8 modular server nodes are conveniently integrated into a compact 3U chassis that is less than 30 inches deep, saving over 76% of rack space when compared to traditional 1U servers. The cable-less, hot-pluggable server nodes operate independently. Each node provides up to Up to 128GB DDR4-2133/1866/1600MHz of ECC Unbuffered DIMM or 128GB RDIMM / 256GB LRDIMM / 512GB LRDIMM ECC DDR4 memory, one PCI-E 3.0 x8 expansion slot for low-profile add-on card, and 2x 2.5" ***NVMe***, 2x 3.5", or 4x 2.5" HDDs. The MicroCloud system utilizes redundant Titanium Level (96%) high-efficiency power supplies and sophisticated cooling zone controls for a Green energy profile. Each node is powered by the latest Intel® Xeon® Processor E3-1200 v5 (up to 80W) or Intel® Xeon® Processor E5-2600 v4/v3 (up to 145W) or Intel® Xeon® processor D (45W) product families.

New!
12 UP Nodes

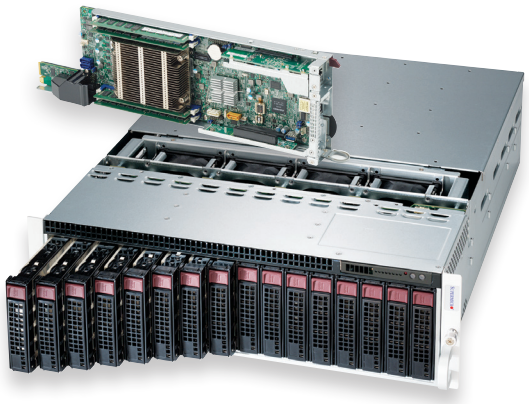


*Exceptional performance with SMC exclusive 16GB VLP DDR4 ECC UDIMM (MEM-DR416L-CV01-EU24)***

MODEL	MicroCloud SYS-5039MS-H12TRF
Processor Support	12 set of Intel® Xeon® processor E3-1200 v5, Intel® 6th Gen Core™ i3, Intel® Pentium®, Intel® Celeron® processors product family
Key Applications	• Cloud Computing • Web Cache • Web Hosting, VM • Social Networking • Corporate- WINS, DNS, Print, Login
Outstanding Features	• Up to 12x hot-pluggable node in 3U chassis • Flexible HDD selection, 2x 3.5" SATA3 or 4x 2.5" SATA3 or 2x 2.5" ***NVMe*** plus 2x 2.5" SATA3 or 2x 2.5" ***NVMe*** plus 1x 3.5" SATA 3 • Redundant 2000W Titanium Level high-efficiency power supplies • UID LED • Centralized dedicated management switch port
Serverboard	SUPER® X11SSE-F
Chipset	Intel® C236 chipset
System Memory (Max.)*	12 set of up to 64GB Unbuffered ECC Very Low Profile DDR4 2133MHz in 4 DIMM slots
Expansion Slots	12 set of Micro-LP slots (MicroLP upgradable)
Onboard Storage Controller	12 set of Intel® C236 controller for 2 SATA3 (6Gbps) ports; RAID 0, 1, 5, 10
Connectivity	12 set of Dual LAN Intel® i350 GbE LAN controller
VGA/Audio	12 set of AST2400 VGA
Management	Single dedicate management port, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	12 set of 2x 3.5" SATA3 HDD; or 4x 2.5" SATA3; or 2x 2.5" ***NVMe*** + 2x 2.5" SATA3; or 2x 2.5" ***NVMe*** + 1x 3.5" SATA3
Power Supply	2000W Redundant Titanium 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")

** Please check with your Supermicro sales representative and website for compatibility and configuration details*
*** Memory not included*

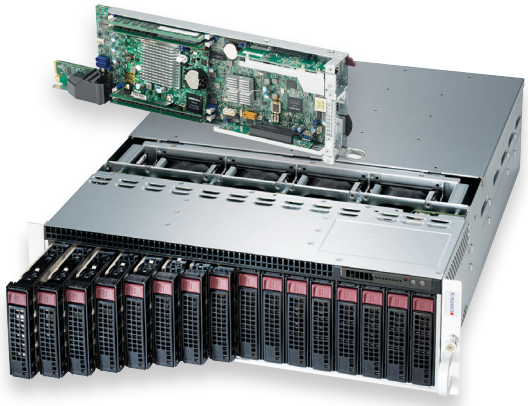
New!
8 UP Nodes



MODEL	MicroCloud SYS-5039MS-H8TRF
Processor Support	8 set of Intel® Xeon® processor E3-1200 v5, Intel® 6th Gen Core™ i3, Intel® Pentium®, Intel® Celeron® processors product family
Key Applications	• Cloud Computing • Web Cache • Web Hosting, VM • Social Networking
Outstanding Features	• Up to 8x hot-pluggable node in 3U chassis • 1 PCI-E 3.0 (x8) low-profile • Redundant 1600W Titanium Level high-efficiency power supplies • Hot-swappable SAS/SATA3 HDDs • UID LED
Serverboard	SUPER® X11SSD-F
Chipset	Intel® C236 chipset
System Memory (Max.)*	8 set of up to 64GB Unbuffered ECC Low Profile DDR4 2133MHz in 4 DIMM slots
Expansion Slots	8 set of PCI-E 3.0 x8 low profile slot and 8 set of Micro-LP slots (MicroLP upgradable)
Onboard Storage Controller	8 set of Intel® C236 controller for 2 SATA3 (6Gbps) ports; RAID 0, 1,5,10: Selected low-profile RAID or HBA RAID card to support SAS HDD
Connectivity	8 set of Dual LAN Intel® i350 GbE LAN controller
VGA/Audio	8 set of AST2400 VGA
Management	8 set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8 set of 2x 3.5" SATA3 HDD; or 2x 2.5" SATA3 w/ option kits
Power Supply	1600W Redundant Titanium Level high-efficiency power supplies
Cooling System	4x 8cm hot-swap cooling fans with fan speed control
Form Factor	3U Rackmount 438.4 x 132.5 x 589mm (17.26" x 5.21" x 23.2")

** Please check with your Supermicro sales representative and website for compatibility and configuration details*
*** Memory not included*

New!
8 UP Nodes



MODEL	MicroCloud SYS-5038MD-H8TRF
Processor Support	8 set of Intel® Xeon® processor D-1541, 8-Core, 45W
Key Applications	• Cloud Computing • Web Cache • Web Hosting, VM • Social Networking • CDN
Outstanding Features	• 4x M.2 support (3x 22110, 1x 2240) • Up to 8x hot-pluggable node in 3U chassis • 1 PCI-E 3.0 (x8) low-profile • Redundant 1600W Titanium Level high-efficiency power supplies • Hot-swappable SAS/SATA3 HDDs • UID LED
Serverboard	SUPER® X10SDD-F
Chipset	Intel®Xeon® Processor D SoC
System Memory (Max.)*	8 set of up to 128GB DDR4 ECC RDIMM, 64GB DDR4 ECC/non-ECC UDIMM, in 4 DIMM slots
Expansion Slots	8 set of PCI-E 3.0 x8 low profile slot and 8 set of Micro-LP slots (MicroLP upgradable)
Onboard Storage Controller	8 set of System on Chip
Connectivity	8 set of Dual LAN Intel® i350 GbE LAN controller
VGA/Audio	8 set of AST2400 VGA
Management	8 set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8 set of 2x 3.5" SATA3 HDD; or 2x 2.5" SATA3 w/ option kits
Power Supply	1600W Redundant Titanium Level high-efficiency power supplies
Cooling System	4x 8cm hot-swap cooling fans with fan speed control
Form Factor	3U Rackmount 438.4 x 132.5 x 589mm (17.26" x 5.21" x 23.2")

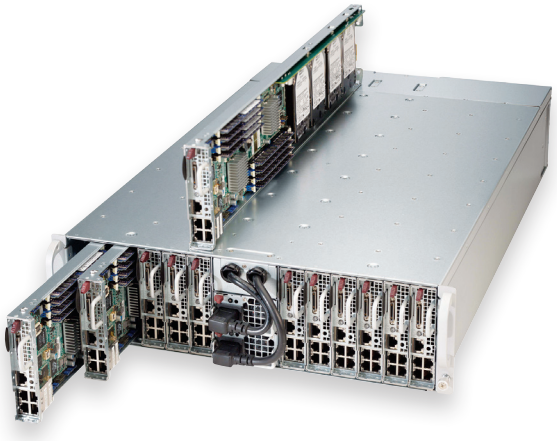
** Please check with your Supermicro sales representative and website for compatibility and configuration details*
*** Memory not included*

24 UP Nodes

MODEL	MicroCloud SYS-5038MD-H24TRF
Processor Support	24 set of Intel® Xeon® Processor D-1531, 6-core, 45W
Key Applications	• Cloud Computing • Web Cache • Web Hosting, VM • Social Networking • CDN
Outstanding Features	• Low Power Xeon D SoC 6 Core • Dual Intel i350 GbE LAN • 128GB DDR4 ECC RDIMM/64GB ECC UDIMM • Redundant 1600W Platinum level power supply • UID LED
Serverboard	SUPER® X10SDE-DF
Chipset	Intel® Xeon® Processor D SoC
System Memory (Max.)*	24 set of up to 128GB DDR4 VLP ECC RDIMM/64GB DDR4 VLP ECC UDIMM in 4 DIMM slots
Expansion Slots	N/A
Onboard Storage Controller	24 set of SoC controller for 2 SATA3 (6 Gbps) port
Connectivity	24 set of Dual port GbE and 1 dedicated IPMI per node
VGA/Audio	24 set of AST2400 VGA
Management	12 set of IPMI 2.0 + KVM with dedicated LAN (1 set shared between 2 nodes)
Drive Bays	24 set of 1x 2.5" HDD fixed per node.
Power Supply	1600W Redundant Platinum Level High-Efficiency power supplies
Cooling System	4x 9cm Heavy duty fan with optimal cooling zone
Form Factor	3U Rackmount 438 x 132 x 749.3mm (17.5" x 5.21" x 29.5")

** Please check with your Supermicro sales representative and website for compatibility and configuration details*
*** Memory not included*

24 UP Nodes



MODEL	MicroCloud SYS-5038MA-H24TRF
Processor Support	24 set of Intel® Atom™ processor C2750 (20W, 8-Core)
Key Applications	• CDN • Hosting & Application delivery • Web Cache • Web Server • Memcache
Outstanding Features	• 24x Intel® Atom™ processor Nodes in 12 hot-plug sleds, 2 nodes per sled • 1620W Redundant Platinum Level high-Efficiency power supplies • 2x 2.5" SATA 3.0 (6Gbps) HDDs per node • 2 Gigabit Ethernet Ports per Node • 32GB of DDR3 Unb. VLP ECC Memory per Node
Serverboard	SUPER® A1SA2-2750F
Chipset	Intel® Atom™ processor SoC
System Memory (Max.)*	24 set of up to 32GB ECC UDIMM, VLP DDR3-1600MHz in 4 DIMM Slots
Expansion Slots	N/A
Onboard Storage Controller	24 set of Intel® Atom™ processor SoC for SATA3 (6Gbps) ports; RAID 0,1
Connectivity	24 set of Dual port GbE
VGA/Audio	24 set of AST2400 VGA
Management	12 set of IPMI 2.0 + KVM with dedicated LAN (1 set shared between 2 nodes)
Drive Bays	24 set of 2x 2.5" SATA3 fixed HDDs 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")

** Please check with your Supermicro sales representative and website for compatibility and configuration details*

24 UP Nodes

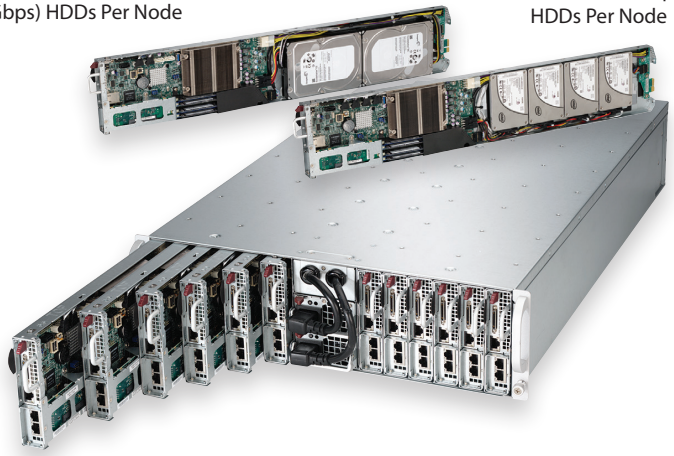
MODEL	MicroCloud SYS-5038ML-H24TRF
Processor Support	24 set of 4th Generation Intel® Core™ i3 processor, Intel® Celeron® processor, Intel® Pentium® processor or Intel® Xeon® processor E3-1200 v3 product families; Socket H3 (LGA 1150) up to 80W CPU
Key Applications	• Cloud Computing • Web Cache, CDN, Video Streaming • Web/Collocating Service • Social networking/download
Outstanding Features	• 24x UP Nodes in 12 hot-plug sleds, 2 nodes per sled • 2000W Redundant Platinum Level Digital high-efficiency power supplies • 2x 2.5" SATA3 (6Gbps) HDDs or 4x 2.5" slim SDD w/ optional kit per sled • 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 set of up to 32GB ECC UDIMM, VLP DDR3-1600 MHz in 4 DIMM slots
Expansion Slots	N/A
Onboard Storage Controller	24 set of Intel® C224 controller for 2 SATA 3 *6Gbps) ports; RAID 0, 1,5, 10
Connectivity	24 set of Dual LAN Intel® i350 GbE LAN controller
VGA/Audio	24 set of AST2400 VGA
Management	12 set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	24 set 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")

** Please check with your Supermicro sales representative and website for compatibility and configuration details*

12 Hot-plug UP Nodes

2x 3.5" SATA3 (6Gbps) HDDs Per Node

4x 2.5" SATA (3Gbps) HDDs Per Node



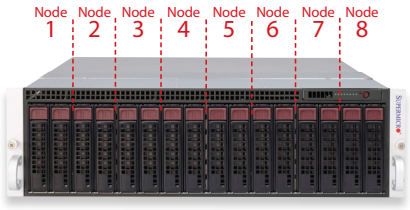
We Power the Cloud

MODEL	MicroCloud SYS-5038ML-H12TRF SYS-5038ML-H12TRFG
Processor Support	12 set of 4th Generation Intel® Core™ i3 processor, Intel® Celeron® processor, Intel® Pentium® processor or Intel® Xeon® processor E3-1200 v4/v3 product families; 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 • IPMI 2.0 + KVM with dedicated LAN • UID LED
Serverboard	-H12TRF: SUPER® X10SLE-F -H12TRFG: SUPER® X10SLE-HF (-OEM)
Chipset	-H12TRF: Intel® C224 chipset -H12TRFG: Intel® C226 chipset
System Memory (Max.)*	12 set of up to 32GB ECC UDIMM, VLP DDR3-1600 MHz in 4 DIMM slots
Expansion Slots	12 set of Micro-LP slots (Micro-LP upgradable)
Onboard Storage Controller	12 set of Intel® C224 controller for 4 SATA3 (6Gbps) ports; RAID 0,1,5,10
Connectivity	12 set of Dual LAN Intel® i350 GbE LAN controller
VGA/Audio	12 set of AST2400 VGA
Management	12 set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	12 set 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")

** Please check with your Supermicro sales representative and website for compatibility and configuration details*

8 Hot-plug UP Nodes

2x 3.5" SATA3 (6Gbps) / SAS HDDs w/ selected HBA or RAID card Per Node



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

MODEL	MicroCloud SYS-5038ML-H8TRF SYS-5038ML-H8TRF-OEM
Processor Support	8 set of 4th Generation Intel® Core™ i3 processor, Intel® Celeron® processor, Intel® Pentium® processor or Intel® Xeon® processor E3-1200 v4/v3 product families; Socket H3 (LGA 1150), up to 84W CPU
Key Applications	• Cloud Computing • Web Cache, CDN, Video Streaming • Web/Collocating Service • Social networking/download
Outstanding Features	• 8x Hot-plug UP Nodes in 3U • 1 PCI-E x8 slot • 1620W Redundant Platinum Level high-efficiency power supplies • IPMI 2.0 + KVM with dedicated LAN • Hot-swappable SAS/SATA3 (6Gbps) HDDs • UID LED
Serverboard	SUPER® X10SLD-F SUPER® X10SLD-HF (-OEM)
Chipset	Intel® C224 chipset Intel® C226 chipset (-OEM)
System Memory (Max.)*	8 set of up to 32GB ECC UDIMM, DDR3-1600 MHz in 4 DIMM slots
Expansion Slots	8 set of PCI-E 3.0 x8 low-profile slot and 8 set of Micro-LP slots (Micro-LP upgradable)
Onboard Storage Controller	8 set 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 set of Dual LAN Intel® i350 GbE LAN controller
VGA/Audio	8 set of AST2400 VGA
Management	8 set of IPMI 2.0 + KVM with dedicated LAN, Intel® Node Manager, SUM, SPM, SSM, SuperDoctor® 5, Watchdog
Drive Bays	8 set of 2x 3.5" hot-swap SAS/SATA3 (6Gbps) HDDs
Power Supply	1620W Redundant Platinum Level high-efficiency power supplies
Cooling System	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")

** Please check with your Supermicro sales representative and website for compatibility and configuration details*

8 Hot-plug UP Nodes

MODEL	MicroCloud SYS-5038MR-H8TRF
Processor Support	8 set of Intel® Xeon® Processor E5-2600 v4/v3 product families, and Intel® Xeon® Processor E5-1600 v4/v3 product families
Key Applications	• CDN • Cloud Computing • Social Networking • Video Streaming • Web Cache
Outstanding Features	• 8 x Hot-plug UP nodes in 3U • 1 x PCI-E x8 slot • 1620W Redundant Platinum Level high-efficiency power supplies • IPMI 2.0 + KVM with dedicated LAN • Hot-swappable SAS/SATA3 (6Gbps) HDDs • UID LED
Serverboard	SUPER® X10SRD-F
Chipset	Intel® C612 Chipset
System Memory (Max.)*	4 DIMMs per node, support up to 512GB ECC 3DS LRDIMM / 256GB ECC LRDIMM / 128GB ECC RDIMMs 2400/2133/1866/1600 MHz Memory
Expansion Slots	8 set of 1 PCI-E 3.0 x8 (low profile) and 8 set of Micro-LP slots (Micro-LP upgradable)
Onboard Storage Controller	8 set of Intel® C612 for 2 SATA3 (6Gbps) ports; RAID 0, 1; Selected low-profile RAID or HBA RAID card to support SAS HDD
Connectivity	8 set of Dual LAN with 2x Intel I350 Gigabit Ethernet controllers
VGA/Audio	8 set of AST2400 VGA
Management	8 set of Dedicated Management LAN port
Drive Bays	8 set of 2 x 3.5" hot-swap SATA3/SAS (6Gbps) drive bays
Power Supply	1620W Redundant Platinum Level high-efficiency power supplies
Cooling System	4x 8cm hot-swap cooling fans with fan speed control
Form Factor	3U Rackmount 387 x 132 x 585mm (15.25" x 5.2" x 23")

** Please check with your Supermicro sales representative and website for compatibility and configuration details*

We Keep IT Green®

SAS 3.0 · *NVMe* · 100G/50G/40G/25GbE

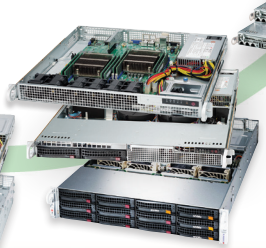
2U Simply Double
All Flash NVMe or SAS3
2.5″ or 3.5″ drive bays

GPU/Intel® Xeon Phi™ Coprocessor Supercomputing
Multi TeraFLOPS Servers/Workstations/Blades

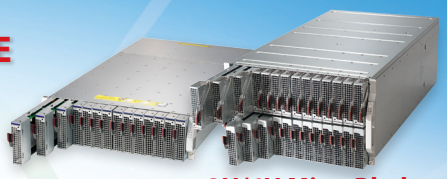
New! 60/90x 3.5″
Top-Loading Drives in 4U

All Flash Solutions
NVMe 2U/1U Storage Systems

Ultra
Enterprise Class Computing



Datacenter Optimized
Datacenter PUE < 1.1
47°C Ambient Server Solutions



3U/6U MicroBlade
0.05/0.1/0.2U MicroBlade Servers
in 3U/6U

New!
8-Way

TwinPro™
New Generation Twin System
4 DP Nodes in 2U,
2 DP Nodes in 1U

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

We Power the Cloud

Comprehensive Server, Storage and Networking Product Lines
Optimized for IT, Datacenter, Embedded, HPC and Cloud Computing

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