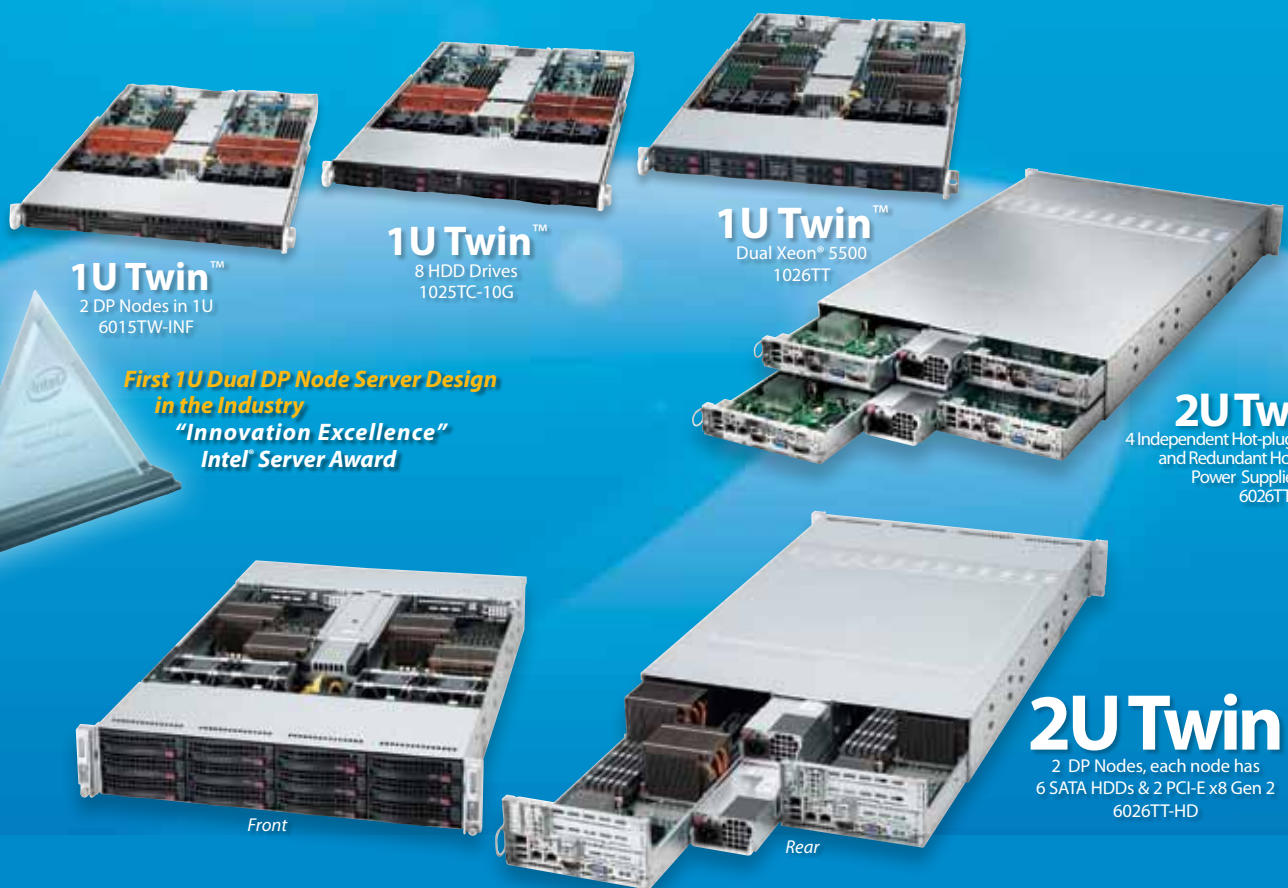


SUPERMICRO®

Twin Evolution

**Best Performance-Per-Watt
Best Performance-Per-Dollar
Best Performance-Per-Sq. Ft.
6x 3.5" HDDs Per Node**



1U Twin™
2 DP Nodes in 1U
6015TW-INF

1U Twin™
8 HDD Drives
1025TC-10G

1U Twin™
Dual Xeon® 5500
1026TT

2U Twin²™
4 Independent Hot-pluggable DP Nodes
and Redundant Hot-pluggable
Power Supplies in 2U
6026TT

2U Twin

2 DP Nodes, each node has
6 SATA HDDs & 2 PCI-E x8 Gen 2
6026TT-HD

*First 1U Dual DP Node Server Design
in the Industry
"Innovation Excellence"
Intel® Server Award*

Optimized HPC and Datacenter Rackmount Server Solutions

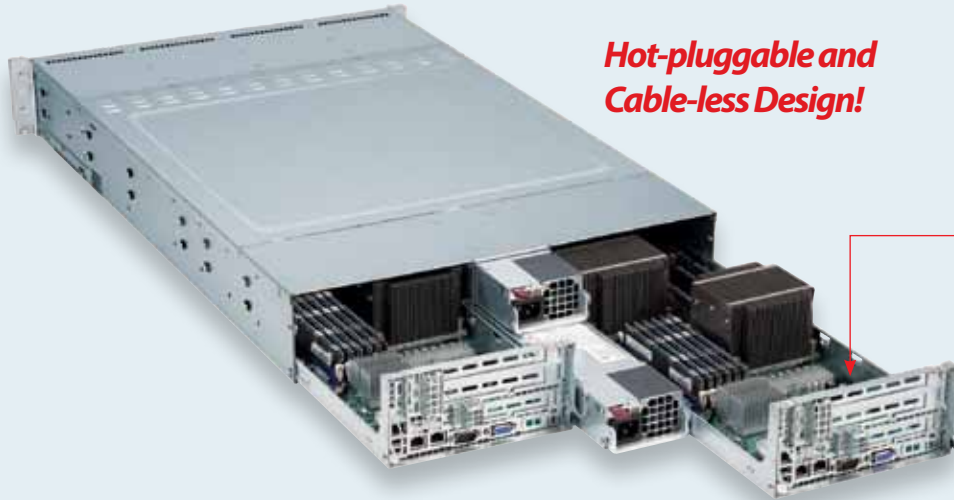
- Up to 6 hot-pluggable 3.5" HDDs per 1U node (12x 3.5" HDDs total)
- Hot-pluggable, cable-less Xeon® DP nodes (2U Twin²™ and 2U Twin)
- Up to 96 GB of Reg. ECC DDR3 memory in 12 DIMMs
- QDR or DDR InfiniBand connectivity options
- Redundant Gold Level power supplies
- High-efficiency serverboard VRMs (90%+) and cooling subsystem designs
- Onboard IPMI 2.0 + KVM with dedicated LAN



New!

2U Twin

**2 Hot-pluggable DP Nodes & Gold Level Power Supplies
6x 3.5" Hot-swap HDDs per 1U Node**



**Hot-pluggable and
Cable-less Design!**



Supports 2 PCI-E 2.0 FH/HL add-on cards per node



Optional GPU Solution:
supports 1x double-width GPU
or 2x FH/FL cards per node*



12x 3.5" hot-swap SATA hard drives support (6x per node)

- 2x Hot-pluggable systems (nodes) share one 2U chassis
- 2x Two Intel[®] Quad-core/Dual-core Xeon[®] processor 5500 series
- Intel[®] 5500/5520 chipset with QPI up to 6.4 GT/s
- 2x Up to 96GB[†] of DDR3 Reg. ECC 1333/1066/800 MHz DIMMs
- 2x Two PCI-E 2.0 x8 (FH/HL)
- 2x Onboard Mellanox ConnectX QDR/DDR InfiniBand Controllers (HDIBQF/HDIBXF versions only)
- 2x Support for 6x 3.5" hot-swap SATA HDDs
- 2x Dual LAN w/ Intel[®] Gigabit Ethernet controllers
- 2x Matrox G200eW graphics controllers
- 2x sets of rear I/O ports including 2 USB, VGA, COM, 2 LAN ports, 1 IPMI dedicated LAN port
- 4x 8cm heavy-duty PWM fans w/optimal fan speed control
- 2x Onboard IPMI with virtual media over LAN & KVM-over-LAN
- 1400W high-efficiency Gold Level power supply w/ PMbus (Redundant for R models)
- 2x Independent power controls

6026TT-HD(TRF/IBXRF/IBQRF)

Applications

Ideal for HPC cluster computer nodes, data farm, front-end server, and other computing intensive applications

Processor Support

Twin sets of two Intel[®] Quad-Core/Dual-Core Xeon[®] processor 5500 series with QPI up to 6.4 GT/s

Chipset

Intel[®] 5500/5520 chipset

2x Twin motherboards (X8DTT-HF+ / X8DTT-HIBXF+ / X8DTT-HIBQF+)

System Memory

Twin sets of 12 DIMM sockets for up to 96GB[†] of Reg. ECC DDR3 1333/1066/800 memory

Expansion Slots

Twin sets of 2 PCI-E x8 (FH/HL) via riser cards

Onboard SATA/RAID

Twin sets of Intel[®] controllers for 6 SATA (3 Gbps);

RAID 0, 1, 5, 10 (Windows)

RAID 0, 1, 10 (Linux)

Power Supply

1400W Gold Level power supply w/PMBus (Redundant power supply for R models)

Onboard LAN/VGA

Twin sets of Dual Gigabit LANs with Intel[®] 82574L Ethernet controllers; Mellanox ConnectX QDR/DDR InfiniBand controllers (HDIBQF/HDIBXF versions only)

Twin sets of Matrox G200eW graphics controllers

Drive Bays

Twin sets of 6x 3.5" hot-swap SATA drive bays (6 for each node)

Cooling System

4x 8cm heavy duty PWM fans w/optimal fan speed control

Manageability

Twin sets of IPMI 2.0, Media/KVM over LAN

SuperDoctor[™] III, Watch Dog

Form Factor: 2U Rackmount

17.2"W x 3.5" H x 28.5"D (437W x 89H x 724D mm)

Optimized Motherboard (Hot-pluggable, Cable-less)

6026TT-HDTRF: X8DTT-HF+

6026TT-HDIBXRF: X8DTT-HIBXF+

6026TT-HDIBQRF: X8DTT-HIBQF+

Optimized Chassis: CSE-827HD-R1400B

* GPU solution for OEM only: 6026GT-HTRF / -HIBXRF / -HIBQRF

† Please check "Tested Memory List" on Supermicro website for compatibility

Unrivalled Efficiency and Performance, Cost-effective with High Reliability/Density

2U Twin²™

Hot-pluggable
4 Independent DP Nodes and
Redundant Hot-swap
Power Supplies in 2U



2U Twin²™

4 Independent DP Nodes in 2U



1U Twin™

2 DP Nodes in 1U
8x 2.5" HDD Drives



1U Twin™

2 DP Nodes in 1U
4x 3.5" HDD Drives



6026TT-H (IBQRF/IBXRF/TRF)
6026TT-B (IBQRF/IBXRF/TRF)
2026TT-H (IBQRF/IBXRF/TRF)

Two Quad-Core/Dual Core Intel® Xeon® processor
5500 series up to 95W per Node

HPC cluster computer nodes, data center,
data farm, front-end server and other high
performance computing intensive applications

- Four **hot-pluggable** nodes in 2U
- 6x HDD per node (2026TT-H series)
- Up to 32 cores in 2U
- Gold Level high-efficiency power supply with PMBus support
- Double density and computing power
- Independent power control & UID function
- Independent cooling control
- Highest power utilization
- Reduce power cables and power strips
- Save maintenance/management costs

Intel® 5500/5520 chipset with QPI up to 6.4GT/s
per Node

Quad sets of 96GB¹ DDR3 Reg. ECC;
24GB Unb. ECC/Non-ECC
1333/1066/800 MHz SDRAM
in 12 DIMMs

Quad sets of PCI-E 2.0 x16
Quad sets of ConnectX™ QDR InfiniBand (IBQF
version)
Quad sets of ConnectX™ DDR InfiniBand (IBXF
version)

Quad sets of Intel® ICH10R for 6 SATA (3 Gbps)
RAID 0, 1, 5, 10 (Windows)
RAID 0, 1, 10 (Linux)

Quad sets of Dual LAN with Intel® 82576
(IBQF and IBXF version) or 82574L (TF version)
Gigabit Ethernet controller
Quad sets of Matrox G200eW graphics

Quad sets of BMC supporting IPMI 2.0, Media/KVM
over LAN
SuperDoctor™ III, Watch Dog

Quad sets of 3x 3.5" hot-swap SATA HDDs (6026TT)
Quad sets of 6x 2.5" hot-swap SATA HDDs (2026TT)
(Coming Soon!)

1400W Gold Level high-efficiency power supply
with PMBus (redundant power optional)

Twin sets of 2x 8cm heavy duty PWM fans w/
optimal fan speed control

2U Rackmount
17.2"W x 3.5"H x 28.5"D (437 x 89 x 724 mm)

Optimized Twin motherboards:
6026TT-H (IBQRF/IBXRF/TF/TRF) (**Hot-pluggable**,
Cable-less):
X8DTT-HIBQF / X8DTT-HIBXF / X8DTT-HF
6026TT-B (IBQRF/IBXRF/TF/TRF):
X8DTT-IBQF / X8DTT-IBXF / X8DTT-F

Optimized Chassis: CSE-827H-(R)1400B

6026TT-IBQF / IBXF / TF

Two Quad-Core/Dual Core Intel® Xeon® processor
5500 series up to 95W per Node

HPC cluster computer nodes, data center,
data farm, front-end server and other high
performance computing intensive applications

- Four nodes in 2U
- Up to 32 cores in 2U
- Gold Level high-efficiency power supply with PMBus support
- Double density and computing power
- Independent power control & UID function
- Independent cooling control
- Highest power utilization
- Reduce power cables and power strips
- Save maintenance/management costs

Intel® 5500/5520 chipset with QPI up to 6.4GT/s per
Node

Quad sets of 96GB¹ DDR3 Reg. ECC;
24GB Unb. ECC/Non-ECC
1333/1066/800 MHz SDRAM
in 12 DIMMs

Quad sets of PCI-E 2.0 x16
Quad sets of ConnectX™ QDR InfiniBand (IBQF version)
Quad sets of ConnectX™ DDR InfiniBand (IBXF version)

Quad sets of Intel® ICH10R for 6 SATA (3 Gbps)
RAID 0, 1, 5, 10 (Windows)
RAID 0, 1, 10 (Linux)

Quad set of Dual LAN with Intel® 82576
(IBQF and IBXF version) or 82574L (TF version)
Gigabit Ethernet controller
Quad sets of Matrox G200eW graphics

Quad sets of BMC supporting IPMI 2.0, Media/KVM
over LAN
SuperDoctor™ III, Watch Dog

Quad sets of 3x 3.5" hot-swap SATA drive bays

1400W Gold Level high-efficiency power supply with
PMBus (redundant power optional)

Twin sets of 2x 8cm heavy duty PWM fans w/ optimal
fan speed control

2U Rackmount
17.2"W x 3.5"H x 28.5"D (437 x 89 x 724 mm)

Optimized Twin motherboards:
6026TT-IBQF (R/F): X8DTT-IBQF
6026TT-IBXF (R/F): X8DTT-IBXF
6026TT-TF: X8DTT-F

Optimized Chassis: CSE-827T-1400B

1026TT-IBQF / IBXF / TF

Two Quad-Core/Dual Core Intel® Xeon® processor
5500 series up to 95W per Node

HPC cluster computer nodes, data center,
data farm, front-end server and other high
performance computing intensive applications

- Two nodes in 1U
- Up to 16 cores in 1U
- Gold Level high-efficiency power supply
- Double density and computing power
- InfiniBand support
- Independent power control
- Independent cooling control
- Higher power utilization increases power efficiency
- Reduce power cables and power strips
- Save maintenance/management costs

Intel® 5500/5520 chipset with QPI up to 6.4GT/s per
Node

Twin sets of 96GB¹ DDR3 Reg. ECC;
24GB Unb. ECC/Non-ECC
1333/1066/800 MHz SDRAM
in 12 DIMMs

Twin sets of PCI-E 2.0 x16
Twin sets of ConnectX™ QDR InfiniBand (IBQF version)
Twin sets of ConnectX™ DDR InfiniBand (IBXF version)

Twin sets of Intel® ICH10R for 6 SATA (3 Gbps)
RAID 0, 1, 5, 10 (Windows)
RAID 0, 1, 10 (Linux)

Twin sets of Dual LAN with Intel® 82576
(IBQF and IBXF version) or 82574L (TF version)
Gigabit Ethernet controller
Twin sets of Matrox G200eW graphics

Twin sets of BMC supporting IPMI 2.0, Media/KVM
over LAN
SuperDoctor™ III, Watch Dog

Twin sets of 4x 2.5" hot-swap SATA drive bays

1200W Gold Level high-efficiency power supply with
PMBus

Twin sets of 3x 40x56mm counter-rotating PWM fans
w/ optimal fan speed control per node

1U Rackmount
17.2"W x 1.7"H x 27.75"D (437 x 43 x 705 mm)

Optimized Twin motherboards:
1026TT-IBQF: X8DTT-IBQF
1026TT-IBXF: X8DTT-IBXF
1026TT-TF: X8DTT-F

Optimized Chassis: CSE-809T-1200B

6016TT-IBQF / IBXF / TF

Two Quad-Core/Dual Core Intel® Xeon® processor
5500 series up to 95W per Node

HPC cluster computer nodes, data center,
data farm, front-end server and other high
performance computing intensive applications

- Two nodes in 1U
- Up to 16 cores in 1U
- Gold Level high-efficiency power supply
- Double density and computing power
- InfiniBand support
- Independent power control
- Independent cooling control
- Higher power utilization increases power efficiency
- Reduce power cables and power strips
- Save maintenance/management costs

Intel® 5500/5520 chipset with QPI up to 6.4GT/s
per Node

Twin sets of 96GB¹ DDR3 Reg. ECC;
24GB Unb. ECC/Non-ECC
1333/1066/800 MHz SDRAM
in 12 DIMMs

Twin sets of PCI-E 2.0 x16
Twin sets of ConnectX™ QDR InfiniBand (IBQF
version)
Twin sets of ConnectX™ DDR InfiniBand (IBXF
version)

Twin sets of Intel® ICH10R for 6 SATA (3 Gbps)
RAID 0, 1, 5, 10 (Windows)
RAID 0, 1, 10 (Linux)

Twin sets of Dual LAN with Intel® 82576
(IBQF and IBXF version) or 82574L (TF version)
Gigabit Ethernet controller
Twin sets of Matrox G200eW graphics

Twin sets of BMC supporting IPMI 2.0, Media/KVM
over LAN
SuperDoctor™ III, Watch Dog

Twin sets of 2x 3.5" hot-swap SATA drive bays

1200W Gold Level high-efficiency power supply
with PMBus

Twin sets of 3x 40x56mm counter-rotating PWM
fans w/ optimal fan speed control per node

1U Rackmount
17.2"W x 1.7"H x 27.75"D (437 x 43 x 705 mm)

Optimized Twin motherboards:
6016TT-IBQF: X8DTT-IBQF
6016TT-IBXF: X8DTT-IBXF
6016TT-TF: X8DTT-F

Optimized Chassis: CSE-808T-1200B

Twin Family - Broadest Twin solution building blocks for best application optimization

The Supermicro **Twin Family** is truly revolutionary. With four DP nodes in a 2U space, the **2U Twin²**™ delivers world-class performance and energy efficiency in a small but powerful package. The new **2U Twin** with two hot-swap motherboard modules in 2U supports two PCI-E 2.0 FH/HL add-on cards per node. This newest addition to the Twin Family can optionally support 1 double-width GPU card per node and provides 6x hot-swap 3.5" SAS/SATA HDD bays with SESII support per 1U server node (12x HDDs total). Optimized redundant Gold Level power and cooling make the **2U Twin** and **2U Twin²**™ the best choices for HPC, datacenter, and cost-effective blade applications. Together with the award-winning **1U Twin**™ systems, Supermicro offers the most advanced and complete HPC solutions in the world.

Optimized Chassis:



SC827HD-R1400B

- Two DP Nodes in 2U, each node with 2x FH slots and 1x LP slot
- Hot-swappable module design for easy system upgrade, installation and maintenance
 - 2x swappable motherboard modules supports X8DTT-H(+) motherboards
 - Redundant (1+1) 1400W Gold Level (93%+) power supply with PMBus support
 - 12x 3.5" hot-swap SATA drive trays (6x per 1U server node)
 - 24x 2.5" hot-swap SATA drive trays (Coming Soon!)
 - 4x 80mm heavy duty fans with PWM fan speed control
 - 2x front control panel with UID per node
 - Quick release rail and bulk pack design



SC827T/H-R1400B

- Supports four systems (nodes) in 2U
- Hot-swappable module design for easy system upgrade, installation and maintenance
 - 4x swappable motherboard modules supports compatible Twin motherboards (shown below)
 - Redundant (1+1) 1400W Gold Level (93%+) power supply with PMBus support
 - 12x 3.5" hot-swap SAS/SATA drive trays (3x per node)
 - 4x 80mm heavy duty fans with PWM fan speed control
 - 4x low-profile AOC slots (1x slot per node)
 - 4x front control panel with UID for each node
 - Quick release rail and bulk pack design



SC217HQ-R1400B

- 2U Twin with High Storage Capacity
- Hot-swappable module design for easy system upgrade, installation and maintenance
 - 4x Hot-swap motherboard modules in 2U space, supports X8DTT-H(+) motherboards
 - Redundant (1+1) 1400W Gold Level (93%+) power supply with PMBus function
 - 24x 2.5" hot-swap SAS/SATA HDD (6x per node) with SESII support
 - 4x 80mm heavy duty fans with PWM fan speed control
 - 4x Low-profile AOC slots (1x slot per node)
 - 4x front control panel with UID for each node
 - Quick release rail and bulk pack design



SC809T-1200B

- Supports two systems (nodes) in 1U
- 1200W Gold Level high-efficiency power supply
 - 8x 2.5" hot-swap SAS/SATA drive bays (4x per node)
 - 1x Low profile expansion slot per node
 - 3x 4cm counter-rotating fans per system node
 - Supports Twin motherboard sizes up to: 6.8"x18"



SC808T-1200B

- Supports two systems (nodes) in 1U
- 1200W Gold Level high-efficiency power supply
 - 4x 3.5" hot-swap SAS/SATA drive bays (2x per node)
 - 1x Low profile expansion slot per node
 - 3x 4cm counter-rotating fans per system node
 - Supports Twin motherboard sizes up to: 6.8"x16.64"

Compatible Twin Motherboards:



X8DTT-HIBQ(F)(+)
X8DTT-HIBX(F)(+)
(Cable-less)



X8DTT-H(F)(+)
(Cable-less)



X8DTT-IBQ(F)
X8DTT-IBX(F)



X8DTT-F



X7DCT



X75BT



H8DMT
(MCP55-Pro based)