

SUPERMICRO®

Double-Sided Storage

Up to 36/45 3.5" Hot-Swap HDDs, Extra High-Density 4U Storage Chassis,
Redundant (1+1) 1400W/920W Gold/Platinum Level Power Supplies,
7 PCI Expansion Slots, 100% Redundant Cooling System Design

SC847A/E16/E26-R1400/R920LP/UB

- Double-Sided Extra High-Density 4U Storage:
36x (Server) or 45x (JBOD)
3.5" Hot-Swap SAS/SATA HDDs,
Saves 2U of Rack Space
- SAS/SATA backplane with Expanders
or Multilane Solution
- Redundant (1+1) 1400W/920W Gold/Platinum
Level, High-Efficiency (94%+) Power Supplies
with PMBus support
- 100% Redundant Cooling System Design
- 7 Low-Profile or 4 FH/FL + 3 LP (UIO)
Expansion Slots
- Single or Dual Processors Supported
- 6Gb/s SAS (SAS2) Supported
- Compatible with all Supermicro ATX, E-ATX,
18 DIMMs and UIO Motherboards



Front View



Rear View

*Ideal for Enterprise DataBase/File
Server, Data Warehouse, Media/
Streaming Server, Video-on-Demand,
iSCSI solutions, Digital Image Capture,
Security Server Applications and more*

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SUPERMICRO® Double-Sided Extra High-Density SC847 Series Storage Chassis

The **SC847A/E16/E26-R1400/R920LP/UB** is optimized for enterprise-level, heavy-capacity storage applications. Supermicro's SC847 chassis features 36x (24 front + 12 rear) 3.5" hot-swap HDD bays, configured as server chassis or 45x (24 front + 21 rear) 3.5" hot-swap HDD bays, configured as JBOD chassis in a 4U space. The SC847 design offers extra high-density HDD per space ratio in a 4U form factor, high power-efficiency, optimized HDD signal trace routing and improved HDD tray design to dampen HDD vibrations and to maximize performance. Equipped with a 1400W (Gold Level) or 920W (Platinum Level) high-efficiency (94%+) redundant power supply and 100% redundant cooling fans, the SC847 is a reliable and maintenance-free storage workhorse system. The SC847 is ideal for Corporate DataBase/File Server, Data Warehouse, Media/Streaming Server, Video-on-Demand, iSCSI solutions, Digital Image Capture, Security Server Applications and more.

- Redundant 100% cooling system design for system
- SAS/SATA backplane with Expanders for SC847E16/E26; or Multilane for SC847A
- ATX, E-ATX, 18 DIMMs, and UIO motherboards supported
- Redundant (1+1) 1400W (Gold Level) or 920W (Platinum Level) High-Efficiency (94%+) Power Supplies with PMBus support
- 7x Low-Profile or 4x Full-Height/ Full Length + 3x Low Profile (UIO) Expansion Slots

A: Mini-i-Pass connectivity
 E16: Single Expander supports SAS2
 E26: Dual Expanders support SAS2

Front View Rear View

- Double-Sided Extra High-Density Storage* – 36x (24 front + 12 rear) 3.5" hot-swap HDDs for server chassis; or 45x (24 front + 21 rear) 3.5" hot-swap HDDs for JBOD chassis

Optimized Motherboards



X8DT6/E(-F)	X8DTU(-F)	X8DTN+	X8DTH-6/i(F)	H8DI3+F
Quad/Dual-Core Intel® Xeon® processor 5500 series, with QPI up to 6.4 GT/s	Quad/Dual-Core Intel® Xeon® processor 5500 series, with QPI up to 6.4 GT/s	Quad/Dual-Core Intel® Xeon® processor 5500 series, with QPI up to 6.4 GT/s	Quad/Dual-Core Intel® Xeon® processor 5500 series, with QPI up to 6.4 GT/s	Six-Core/Quad-Core AMD Opteron™ processor 2000 Series (Socket F); HT3.0 Link support
Ext. ATX 12"W x 13"H	Proprietary 12.075"W x 13.05"H	Ext. ATX 13.68"W x 13"H	Ext. ATX 12"W x 13"H	Ext. ATX 12"W x 13.05"H
96 GB of DDR3 Reg. ECC; 24 GB Unb. ECC/Non-ECC 1333/1066/800 MHz SDRAM in 12 DIMMs	96 GB of DDR3 Reg. ECC; 24 GB Unb. ECC/Non-ECC 1333/1066/800 MHz SDRAM in 12 DIMMs	144 GB of DDR3 Reg. ECC; 24 GB Unb. ECC/Non-ECC 1333/1066/800 MHz SDRAM in 18 DIMMs	96 GB of DDR3 Reg. ECC; 24 GB Unb. ECC/Non-ECC 1333/1066/800 MHz SDRAM in 12 DIMMs	Up to 128GB Reg. ECC DDR2 800/667/533 MHz SDRAM in 16 DIMMs
3x PCI-E 2.0 x8 1x PCI-E 2.0 x4 1x PCI-E x4	For SC847-UB only: 1x PCI-E 2.0 x16 + 1x PCI-E 2.0 x8; or 3x PCI-E 2.0 x8	2x PCI-E 2.0 x8 (1 in x16 slot) 1x PCI-E x4 (in x 8 slot) 1x 64-bit 133MHz PCI-X 2x 64-bit 133/100MHz PCI-X 1x UIO slot	7x PCI-E 2.0 x8 (all in x16 slots)	2x PCI-E 2.0 x16 (x8 signals) 1x PCI-E 2.0 x8 (x4 signals) 1x PCI-E 2.0 x8 2x PCI-X 133/100
LSI 2008 8-port 6 Gb/s SAS (SAS2) controller; RAID 0,1,10 (X8DT6(-F) only)	Intel® ICH10R SATA 3.0Gbps Controller RAID 0, 1, 5, 10 support (Windows) RAID 0, 1, 10 support (Linux)	Intel® ICH10R for 6 SATA (3 Gb/s); RAID 0,1,5,10 (Windows) RAID 0,1,10 (Linux)	LSI 2008 8-port 6 Gb/s SAS (SAS2) controller; RAID 0,1,10 for X8DTH-6(F) only	6x SATA2 3.0Gbps Ports via AMD SP5100 controller RAID 0, 1, 10
Intel® ICH10R for 6 SATA (3 Gb/s); RAID 0, 1, 5, 10 (Windows) RAID 0,1,10 (Linux)	UIO card required for SAS support		Intel® ICH10R for 6 SATA (3 Gb/s) RAID 0,1,5,10 (Windows) RAID 0,1,10 (Linux)	LSI 1068E 8 port SAS controller RAID 0, 1, 10; RAID 5 Optional
Dual LAN with Intel® 82574L Gigabit Ethernet	Dual LAN with Intel® 82576 Gigabit Ethernet	Dual LAN with Intel® 82576 Gigabit Ethernet	Dual LAN with Intel® 82576 Gigabit Ethernet	Dual LAN with Intel® 82574L Gigabit Ethernet
IPMI 2.0 + KVM with dedicated LAN (-F versions only)	IPMI 2.0 + KVM with dedicated LAN (-F versions only)	IPMI 2.0 : AOC-SIMLP-B(+); AOC-SIMLP-3(+)) with 3rd LAN support	IPMI 2.0 + KVM with dedicated LAN (F versions only)	IPMI 2.0 + KVM with dedicated LAN

*JBOD Storage Power-up Control Board - CSE-PTJBOD-CB1 required

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