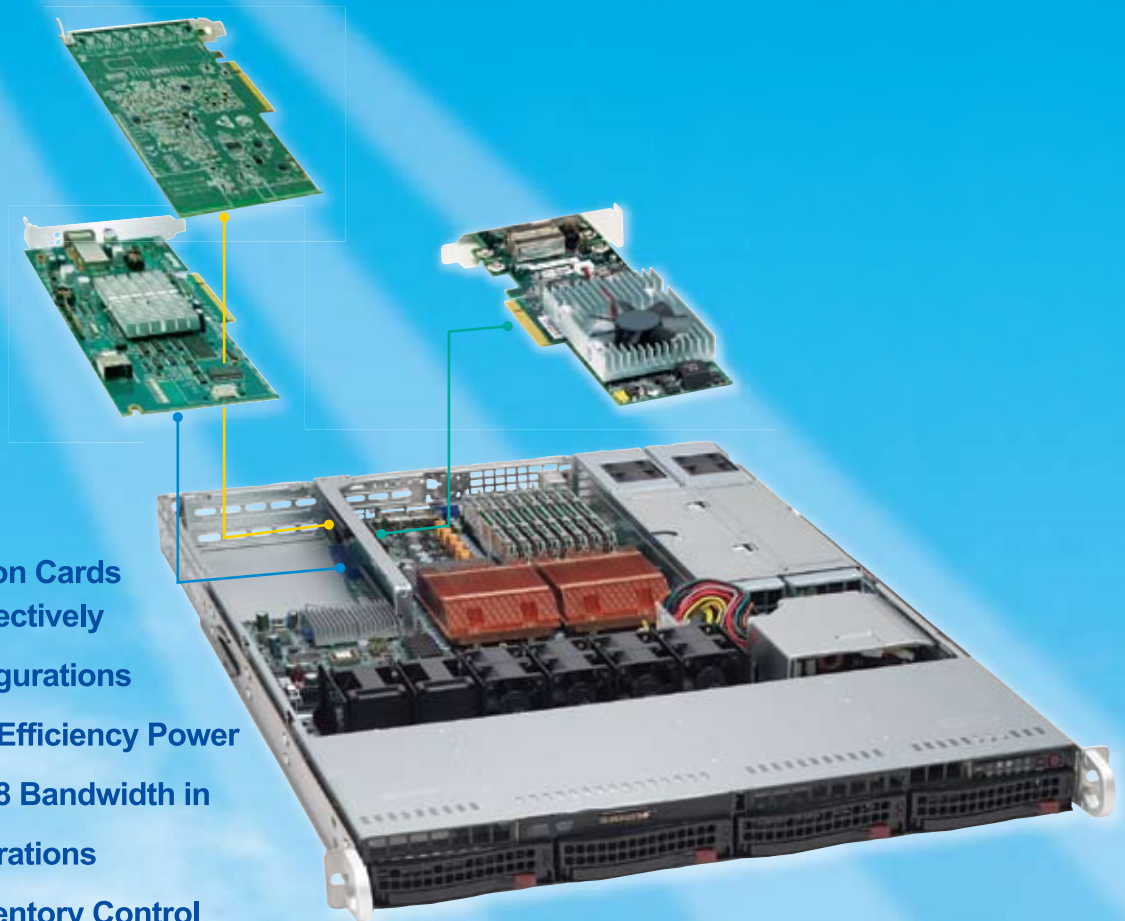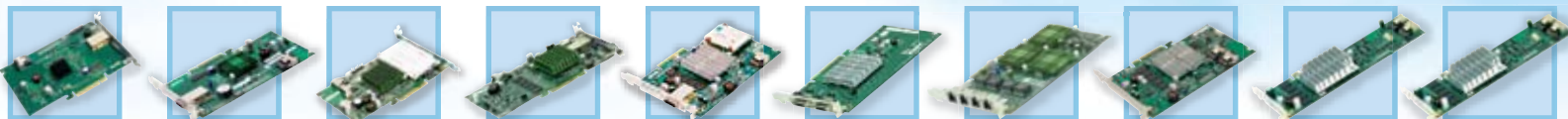# SUPERMICR⬤ ®

# UIO
## Universal I/O
### Maximized I/O Expandability & Flexibility

- Up to 3 or 7 Add-on Cards for 1U or 2U respectively

- Flexible I/O Configurations

- Up to 90%+ High Efficiency Power

- 3+ PCI-Express x8 Bandwidth in 1U or 2U Configurations

- Simplify Your Inventory Control

*More than 20 choices: SAS RAID, 10Gb Ethernet, InfiniBand, 4-port Gigabit UIO Cards . . .*

*Giving you the freedom to build exactly what you need!*

## What is UIO?

**S**upermicro's Universal I/O technology allows users to select from a wide range of I/O options to provide the ultimate flexibility in storage and networking. When a Supermicro UIO card is installed in a UIO slot, it becomes a part of the serverboard, while still allowing the server to retain all of its PCI-Express and PCI-X slots for expansion cards.

Without a Supermicro UIO card installed, the server functions as a complete and optimized server. Installing a UIO card provides easy and cost effective upgrades for:

- **SAS/SATA RAID 5 & 6**
- **4-Port 1 Gbit Ethernet**
- **2-Port 10 Gbit Ethernet**
- **Infiniband™**

Future upgrades are easy – just replace the Supermicro UIO card with any one of the multiple expansion cards available. Supermicro UIO cards minimize the complexity of your server configurations, provide cost advantages over standard expansion cards, and protect your server investment.

## UIO Advantages

✔ **Supports up to 3 add-on cards in 1U and 7 add-on cards in 2U**

✔ **Multiple card options for the latest in storage and networking technologies**

✔ **Easy and cost-effective upgrades to servers that support UIO technology**

✔ **Simplifies inventory control and server configurations**

## Easy As 1, 2, 3 . . .
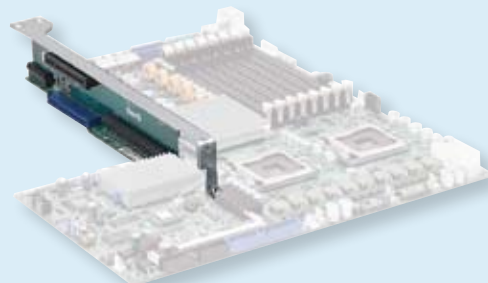
**1** Choose a UIO card to insert in the UIO slot indicated in Blue
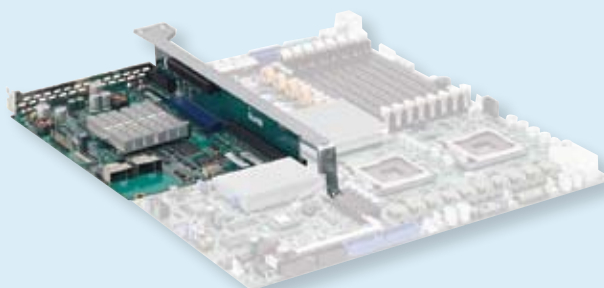
**2** Install the UIO card in the UIO slot

**3** As needed, install 2 other expansion cards in 1U servers or up to 7 additional cards in 2U

®

**S**upermicro UIO Servers in combination with riser cards and a UIO card, can provide numerous server configurations to accommodate the needs of your application. Our various riser cards for 1U and 2U chassis allow you to customize Supermicro UIO solutions that meet your storage and networking requirements. With the Supermicro UIO solution, you can customize high-performance, high density and fault tolerant storage solutions with Supermicro UIO SAS RAID card products. Leveraging a variety of UIO Gigabit Ethernet Adapters, the UIO system improves network throughput as well as application performance. All Supermicro UIO solutions can be utilized without occupying existing PCI slots, leaving those slots free for additional expansion cards.

## Riser Cards

*(RSC-R2UU-UA3E8 shown)*

Supermicro riser cards allow you to extend the onboard slot(s) into a variety of expansion PCI slots, depending on your application needs. The UIO (blue) slot on the riser card is for the UIO card.

## SAS UIO Cards

*(AOC-USASLP-S8i shown)*

The Supermicro UIO SAS RAID card product line addresses the need for both internal and external storage configurations with flexible solutions to meet the complex demands of today's ever-increasing storage requirements. Compared to the regular SAS controller adapter, the Supermicro UIO card offers high-performance, yet is the most cost-effective solution, which seamlessly works with Supermicro UIO motherboards.

## Networking Cards

*(AOC-UTG-i2 shown)*

Supermicro Ethernet adapters help you maximize I/O bandwidth and ensure priority performance on each port without bus-sharing. They can significantly improve the I/O throughput of your database server, appliance server, and storage platform. With the advance off-loading technology, overall server performance can be dramatically scaled.

| MODEL | X7DWU | X7DCU | X7DBU | PDSMU |
|---|---|---|---|---|
| **Processor** | Quad-Core/Dual-Core Intel® Xeon® 5400/5300LV/5200/5100LV | Quad-Core/Dual-Core Intel® Xeon® 5400/5300/5200/5100 | Quad-Core/Dual-Core Intel® Xeon® 5400/5300/5200/5100/5000 | Quad/Dual-Core Xeon® 3200/3000, Core 2 series up to 3.06 GHz, Core 2 Dual, Pentium® D, Pentium® 4, Celeron™ D up to 3.6GHz |
| **Chipset/System Bus** | Intel® 5400 (Seaburg) 1600/1333/1066MHz | Intel® 5100 1333/1066 MHz | Intel® 5000P 1333/1066/667MHz | Intel® 3010 1066/800/533MHz |
| **Form Factor** | Ext. 13.05" x 12.075" | Proprietary 13" x 9.5" | Ext. ATX 12" x 13" | Proprietary 8" x 13" |
| **Optimized Chassis** | 1U: SC812L-520U SC815-560U SC815TQ-R650U 2U: SC823MTQ-R700U SC825MTQ-R700U SC825TQ-R700U | 1U: SC812L-520U SC815TQ-560U SC815TQ-560U/650U 2U: SC823MTQ-R700U SC825MTQ-R700U SC825TQ-R700U | 1U: SC815TQ-R650U SC815TQ-560U SC812L-520U 2U: SC825TQ-R700U | 1U: SC815TQ-R450U SC815TQ-560U SC812L-280U 2U: SC825TQ-R700U SC823MTQ-R700U SC825MTQ-R700U |
| **Memory Capacity & Slots** | 64GB of ECC Fully-Buffered DIMM (FBD) DDR2 800/667/533 SDRAM 1.8 & 1.5V FBD supported | 32GB of DDR2 Reg. ECC 667/533 SDRAM | 32GB ECC Fully-Buffered DIMM (FBD) DDR2 667/533 in 8 DIMMs | 8GB ECC, non-ECC Unb. DDR2 667/533 in 4 DIMMs |
| **Expansion Slots** | Left-side w/ riser 1 UIO + 1 PCI-E Gen 2.0 x8 Right side w/ riser card 1 PCI-E 2.0 x8 (Refer to Riser Cards for more options) SIMSO socket (IPMI 2.0)† | Right Side: 1 PCI-E x8 Left Side: 1 PCI x 8, or UIO, or PCI-E x16 2U solution: (Refer to Riser Cards for more options) SIMSO socket (IPMI 2.0)† | 1U solution: Right slot: 1 Universal PCI-X 133 or PCI-E x8 Left slot: 1 Universal I/O (UIO) slot & 1 PCI-E x8 via riser card or 2 PCI-E x8 via riser card 2U solution: (Refer to Riser Cards for more options) SIMSO socket (IPMI 2.0)† | Right slot: 1 PCI-E x4 Left slot: 1 Universal I/O (UIO) slot & 1 PCI-E x8 via riser card SIMSO socket (IPMI 2.0)† |
| **Onboard SCSI/ SATA/SAS/SATA RAID** | Intel® ESB2 for 6 SATA (3Gbps); RAID 0, 1, 5, 10 (Windows) RAID 0, 1, 10 (Linux) | Intel® ICH9R for 6 SATA2 (3Gbps); RAID 0, 1, 5, 10 (Windows) RAID 0, 1, 10 (Linux) | Intel® ESB2 for 6 SATA (3Gbps); RAID 0, 1, 5, 10 (Windows) RAID 0, 1, 10 (Linux) | Intel® ICH7R for 4 SATA (3 Gbps); RAID 0, 1, 5, 10 (Windows) RAID 0, 1, 10 (Linux) |
| **Onboard LAN** | Dual LAN with Intel® 82575 EB Gigabit Ethernet controller (w/ IOAT support) | Dual LAN with Intel® 82575EB Gigabit Ethernet controller (w/ IOAT support) | Dual LAN with Intel® 82563EB Gigabit Ethernet (w/ IOAT support) | Intel® 82573V Gigabit Ethernet Intel® 82573L Gigabit Ethernet |
| **Onboard VGA** | ATI® ES1000 32 MB graphics controller | ATI® ES1000 32MB graphics controller | ATI® ES1000 16MB graphics controller | ATI® ES1000 16MB graphics controller |
| **Built-in EIDE USB Ports** | ATA/100 Up to 5 USB 2.0 ports | ATA100/ Up to 5 USB 2.0 ports | ATA100/ up to 5 USB 2.0 ports | ATA100/USB 2.0 w/up to 6 USB 2.0 ports |
| **Other Onboard I/O Devices** | 1 floppy port 2 fast UART 16550 serial PS/2 mouse & keyboard | 1 floppy port 2 fast UART 16550 serial PS/2 mouse & Keyboard | 1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn. | 1 floppy port 2 fast UART 16550 serial PS/2 mouse and keyboard conn. |
| **Manageability** | AOC-SIMSO(+) - CBL-0177L is required to support dedicated LAN Watch Dog SuperDoctor® III | AOC-SIMSO(+) Watch Dog SuperDoctor® III | AOC-SIMSO(+) - CBL-0177L is required to support dedicated LAN Watch Dog SuperDoctor® III | AOC-SIMSO Watch Dog Super Doctor® III |
| **PC Health Monitoring** | Monitors CPU voltages, +3.3V, +5V, +12V, -12V & +5V standby and total of 8-fan status, supports system management utility, chassis intrusion header | Monitors CPU voltages, +3.3V, +5V, +12V, -12V & +5V standby and total of 8-fan status, supports system management utility, chassis intrusion header | Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 8 fan status, supports system management utility, chassis intrusion header | Monitors CPU voltages, +1.5V, +1.8V, +3.3V, +5V, +12V, -12V, VBAT, VFSB & +5V standby and 6 fan status, supports system management utility, chassis intrusion header |
| **Thermal Control** | 4-pin PWM & 3-pin fan speed control & overheat LED indication | 4-pin PWM & 3-pin fan speed control & overheat LED indication | 4-pin PWM & 3-pin fan speed control & overheat LED | 4-pin PWM & 3-pin fan speed control & overheat LED indication |
| **Other Features** | ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC,TM2 & CPU thermal trip support for processor protection | ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC,TM2 & CPU thermal trip support for processor protection | ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection | ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, TM2 & CPU thermal trip support for processor protection |
| **BIOS** | Phoenix 8Mb Flash ROM | Phoenix 8Mb Flash ROM | Phoenix 8Mb Flash ROM | Phoenix 8Mb Flash ROM |

† For the most current product information, visit: http://www.supermicro.com/products/accessories/addon/SIM.cfm

## SC812L-U Series

- 3 internal drive bays
- Cost-effective design
- High density slim 1U rackmount
- 520W/280W high-efficiency power supply
- Supports 2FH/FL+1LP expansion cards



## SC815-U Series

- 4 hot-swap drive bays
- High density slim 1U rackmount
- 560W high-efficiency power supply
- 650W/450W redundant high-efficiency power supply available



## SC823MTQ-R700UB

- Redundant 700W Power Supply
- 3 x 3.5" Hot-swap SAS / SATA Drive Bays
- 4 x 40mm x 56mm Counter Rotating Fan
- 4FH + 3LP I/O Expansion Slot
- Power Switch & 6 LED Indicators



## SC825-U Series

- 8 hot-swap drive bays
- Supports 4FH/FL+3LP expansion cards with UIO
- 700W redundant power supply with I²C management
- High-efficiency power

| MB / Chassis | X7DWU | X7DCU | X7DBU | PDSMU | Fan Setting |
|---|---|---|---|---|---|
| **Mini 1U SC515-U series** | | | | SC515-280U<br>• Low-cost front-side access solution<br>• 1 x 3.5" or 2 x 2.5" internal drive bays<br>• 280W high-efficiency power<br>• Passive heatsink: SNK-P0016P*<br>• Riser cards<br>  Left slot: RSC-R1UU-2E8*<br>  Right slot: RSC-R1UU-E8R+*<br>• Air shroud: MCP-310-51501-0B* | 3-pin Server |
| **1U SC812-U Series** | SC812L-520U<br>• Cost effective<br>• Support 2 standard and 1 low-profile cards<br>• 520W high-efficiency power<br>• Heatsink: SNK-P0017*<br>• Riser card:<br>  Left: RSC-R1UU-UE8* or RSC-R1UU-2E8* or RSC-R1UU-UAX*<br>  Right: RSC-R1UU-E8R+ (supports 5.5" card) | SC812L-520U<br>• Cost effective<br>• Support 2 standard and 1 low-profile cards<br>• 520W high-efficiency power<br>• Heatsink: SNK-P0017*<br>• Riser card:<br>  Left: RSC-R1UU-UE8* or RSC-R1UU-2E8* or RSC-R1UU-UAX*<br>  Right: RSC-R1UU-E8R+* | SC812L-520U<br>• 3 fixed drive bays<br>• 520W high-efficiency power supply<br>• Passive heatsink: SNK-P0017*<br>• Riser card:<br>  Left: RSC-R1UU-UE8* / RSC-R1UU-2E8*<br>  Right: RSC-R1UU-XR* / RSC-R1UU-E8R* | SC812L-280U/520U<br>• 3 fixed drive bays<br>• 280W/520W high-efficiency power supply<br>• Passive heatsink: SNK-P0016P*<br>• Riser card:<br>  Left: RSC-R1UU-2E8*, RSC-R1UU-UE8*<br>  Right: RSC-R1UU-E8R+* | 3-pin Server |
| **1U SC815-U Series** | SC815TQ-560U/R650U<br>• 4 hot swap drive bays<br>• Support 2 standard and 1 low-profile cards<br>• 560W/650 redundant power<br>• Heatsink: SNK-P0017*<br>• Riser card:<br>  Left: RSC-R1UU-UE8* or RSC-R1UU-2E8* or RSC-R1UU-UAX*<br>  Right: RSC-R1UU-E8R+ (supports 5.5" card) | SC815TQ-560/R450U<br>• 4 hot swap drive bays<br>• Support 2 standard and 1 low-profile cards<br>• 560W/650 redundant power<br>• Heatsink: SNK-P0017*<br>• Riser card:<br>  Left: RSC-R1UU-UE8* or RSC-R1UU-2E8* or RSC-R1UU-UAX*<br>  Right: RSC-R1UU-E8R+* | SC815TQ-R650U/560U<br>• 4 hot-swap drive bays<br>• High-efficiency power supply<br>• 650W redundant/560W power supply<br>• Passive heatsink: SNK-P0017*<br>• Riser card:<br>  Left: RSC-R1UU-UE8* / RSC-R1UU-2E8*<br>  Right: RSC-R1UU-XR* / RSC-R1UU-E8R* | SC815TQ-R450U/560U<br>• 4 hot-swap drive bays<br>• High-efficiency power supply<br>• 450W redundant/560W power supply<br>• Passive heatsink: SNK-P0016P*<br>• Riser card:<br>  Left: RSC-R1UU-2E8*, RSC-R1UU-UE8*<br>  Right: RSC-R1UU-E8R+* | 3-pin Server |
| **2U SC823MTQ-U Series** | SC823MTQ-R700U<br>• 2U short depth chassis<br>• Front access I/O<br>• 700W redundant power<br>• Heatsink: SNK-P0017*<br>• Riser card:<br>  Left: RSC-R2UU-UA3E8* or RSC-R2UU-UAX* RSC-R2UU-A4E8*<br>  Right: RSC-R2UU-2E8R<br>  (1 LP & 1 LP 5.5" card) | SC823MTQ-R700U<br>• 2U short depth chassis<br>• Front access I/O<br>• 700W redundant power<br>• Heatsink: SNK-P0017*<br>• Riser card:<br>  Left: RSC-R2UU-UA3E8* or RSC-R2UU-UAX*, RSC-R2UU-A4E8*, RSC-R2UU-2E8*<br>  Right riser card: RSC-R2UU-X2E4R* | SC823MTQ-R700U<br>• 3 hot-swap drive bays<br>• High-efficiency power supply<br>• 700W redundant w/ I²C management<br>• Passive heatsink: SNK-P0017*<br>• Riser card:<br>  Left: RSC-R2UU-UA3E8* RSC-R2UU-UAX*<br>  Right: RSC-R2UU-X2E4R* | SC823MTQ-R700U<br>• 3 hot-swap drive bays<br>• High-efficiency power supply<br>• 700W redundant w/ I²C management<br>• Active heatsink: SNK-P0016P*<br>• Riser card:<br>  Left: RSC-R2UU-UA3E8*, RSC-R2UU-UAX* | 3-pin Server |
| **2U SC825MTQ Series** | SC825MTQ-R700U<br>• 2U short depth chassis<br>• 700W redundant power<br>• Heatsink: SNK-P0017*<br>• Riser card:<br>  Left: RSC-R2UU-UA3E8* or RSC-R2UU-UAX* RSC-R2UU-A4E8*, RSC-R2UU-2E8*<br>  Right: RSC-R2UU-2E8R<br>  (1 LP & 1 LP 5.5" card) | SC825MTQ-R700U<br>• 2U short depth chassis<br>• 3 hot swap drive bays<br>• 700W redundant power<br>• Heatsink: SNK-P0017*<br>• Riser card:<br>  Left: RSC-R2UU-UA3E8* or RSC-R2UU-UAX*, RSC-R2UU-A4E8*, RSC-R2UU-2E8* | SC825MTQ-R700U<br>• 3 hot-swap drive bays<br>• High-efficiency power supply<br>• 700W redundant w/ I²C management<br>• Passive heatsink: SNK-P0017*<br>• Riser card:<br>  Left: RSC-R2UU-UA3E8* / RSC-R2UU-UAX*<br>  Right: RSC-R2UU-X2E4R* | SC825MTQ-R700U<br>• 3 hot-swap drive bays<br>• High-efficiency power supply<br>• 700W redundant w/ I²C management<br>• Active heatsink: SNK-P0016P*<br>• Riser card:<br>  Left: RSC-R2UU-UA3E8*, RSC-R2UU-UAX* | 3-pin Server |
| **2U SC825TQ Series** | SC825TQ-R700U<br>• 8 hot-swap drive bays<br>• High-efficiency power supply<br>• 700W redundant<br>• Passive heatsink: SNK-P0025P* | SC825TQ-R700U<br>• 8 hot swap drive bays<br>• Support 4 standard cards<br>• 700W redundant power<br>• Heatsink: SNK-P0025P*<br>• Riser card:<br>  Left: RSC-R2UU-UA3E8* or RSC-R2UU-UAX*, RSC-R2UU-A4E8*, RSC-R2UU-2E8* | SC825TQ-R700U<br>• 8 hot-swap drive bays<br>• High-efficiency power supply<br>• 700W redundant w/ I²C management<br>• Passive heatsink: SNK-P0025P*<br>• Riser card:<br>  Left: RSC-R2UU-UA3E8* / RSC-R2UU-UAX*<br>  Right: RSC-R2UU-X2E4R* | SC825TQ-R700U<br>• 8 hot-swap drive bays<br>• High-efficiency power supply<br>• 700W redundant w/ I²C management<br>• Active heatsink: SNK-P0015A4*<br>• Riser card:<br>  Left: RSC-R2UU-UA3E8*, RSC-R2UU-UAX* | 3-pin Server |

† Supports CPUs less than 100W
* Sold separately

| MODEL | X7DWN+ | X7DWA-N | X7DBN | X7DAL-E/E+ |
|---|---|---|---|---|
| **Processor** | Quad-Core/Dual-Core Intel® Xeon® 5400/5300LV/5200/5100LV | Quad-Core/Dual-Core Intel® Xeon® 5400/5300LV/5200/5100LV | Quad-Core/Dual-Core Intel® Xeon® 5400/5300/5200/5100/5000 | Quad-Core/Dual-Core Intel® Xeon® 5400/5300/5200/5100/5000 |
| **Chipset/ System Bus** | Intel® 5400 (Seaburg) 1600/1333/1066MHz | Intel® 5400 (Seaburg) 1600/1333/1066MHz | Intel® 5000P 1333/1066/667MHz | Intel® 5000X 1333/1066/667MHz |
| **Form Factor** | Ext. ATX 13.05" x 13.68" | Ext. ATX 12" X 13" | Ext. ATX 12" x 13" | ATX 12" x 10" |
| **Optimized Chassis** | 2U: SC825TQ-R700LP 4U/Tower: SC745TQ-R800 | 4U/Tower: SC743TQ-865 SC743T-645 | 2U: SC825TQ-R700LPV SC825TQ-560LPV SC823TQ-R550LP/R500LP SC823T-550LP/R500RC SC823i-550LP 3U: SC836TQ-R800V SC833T-R760/550 SC933T-R760 4U/Tower: SC745TQ-R800/800 SC743TQ-R760 SC743T-R760/650 SC743i-R760/650 | 4U/Tower: SC743TQ-865, SC743T-645*, SC743i-645*, SC742T-650 Mid-tower: SC733TQ-645, SC733TQ-465 SC733T-645, SC733T-465 SC733i-645, SC733E-465 |
| **Memory Capacity & Slots** | 128GB of ECC Fully-Buffered DIMM (FBD) DDR2 800/667/533 MHz SDRAM 1.8 & 1.5V FBD supported | 64GB of ECC Fully-Buffered DIMM (FBD) DDR2 800/667/533 MHz SDRAM 1.8 & 1.5V FBD supported | 32GB ECC Fully-Buffered DIMM (FBD) DDR2 667/533 in 8 DIMMs | 24GB ECC Fully-Buffered DIMM (FBD) DDR2 667/533 in 6 DIMMs |
| **Expansion Slots** | 1 UIO Gen 2.0 slot 3 PCI-E x8 (2 w/ Gen 2.0) 1 PCI-E x4 2 PCI-X 133MHz SIMSO socket (IPMI 2.0)† | 1 UIO Gen 2.0 slot 2 PCI-E x16 Gen 2.0 2 PCI-X 133MHz 2 PCI SIMLP slot (IPMI 2.0)† | 1 Universal I/O (UIO) slot 2 PCI-E x8 1 PCI-E x4 2 PCI-X 133/100 1 PCI SIMLP slot (IPMI 2.0)† | 1 PCI-E x16 1 PCI-E x4 (in x16 slot) 2 PCI-X 133MHz 2 PCI 33MHz 1 UIO (Universal I/O) slot |
| **Onboard SCSI/ SATA/SAS/SATA RAID** | Intel® ESB2 for 6 SATA (3Gbps); RAID 0, 1, 5, 10 (Windows) RAID 0, 1, 10 (Linux) | Intel® ESB2 for 6 SATA (3Gbps); RAID 0, 1, 5, 10 (Windows) RAID 0, 1, 10 (Linux) | Intel® ESB2 for 6 SATA (3Gbps); RAID 0, 1, 5, 10 (Windows) RAID 0, 1, 10 (Linux) | Intel® ESB2 for 6 SATA (3 Gbps); RAID 0, 1, 5, 10 (Windows) RAID 0, 1, 10 (Linux) |
| **Onboard LAN** | Dual LAN with Intel® 82575 EB Gigabit Ethernet controller (w/ IOAT support) | Dual LAN with Intel® 82575 EB Gigabit Ethernet controller (w/ IOAT support) | Dual LAN with Intel® 82563EB Gigabit Ethernet (w/ IOAT support) | Dual LAN with Intel® 82563EB Gigabit Ethernet Controller (w/ IOAT support) |
| **Onboard VGA** | ATI® ES1000 32MB graphics controller | N/A | ATI® ES1000 16MB graphics controller | N/A |
| **Built-in EIDE USB Ports** | ATA/100 Up to 5 USB 2.0 ports | ATA/100 Up to 5 USB 2.0 ports | ATA100/ up to 5 USB 2.0 ports | ATA100/ up to 6 USB 2.0 port |
| **Other Onboard I/O Devices** | 1 floppy port 2 fast UART 16550 serial PS/2 mouse & keyboard | 1 floppy port 2 fast UART 16550 serial PS/2 mouse & keyboard 7.1 HD audio 1 parallel port Dual IEEE 1394 ports | 1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel port PS/2 mouse and keyboard conn. | 1 floppy port 2 fast UART 16550 serial 1 ECP/EPP parallel header PS/2 mouse and keyboard conn. 7.1 HD audio (X7DAL-E+ only) AC'97 audio CODEC high quality 6-channel sound (X7DAL-E only) |
| **Manageability** | AOC-SIMSO(+) - CBL-0177L is required to support dedicated LAN Watch Dog SuperDoctor® III | AOC-SIMLP-B; AOC-SIMLP-3 Watch Dog SuperDoctor® III | AOC-SIMSLP-B(+); AOC-SIMLP-3(+) Watch Dog SuperDoctor® III | Watch Dog SuperDoctor® III |
| **PC Health Monitoring** | Monitors CPU voltages, +3.3V, +5V, +12V, -12V & +5V standby and total of 8-fan status, supports system management utility, chassis intrusion header | Monitors CPU voltages, +3.3V, +5V, +12V, -12V & +5V standby and total of 8-fan status, supports system management utility, chassis intrusion header | Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 8 fan status, supports system management utility, chassis intrusion header | Monitors CPU voltages, +3.3V, +5V, +12V, -12V, +5V standby and 6 fan status, supports system management utility, chassis intrusion header |
| **Thermal Control** | 4-pin PWM & 3-pin fan speed control & overheat LED indication | 4-pin PWM & 3-pin fan speed control & overheat LED indication | 4-pin PWM & 3-pin fan speed control & overheat LED indication | 4-pin PWM & 3-pin fan speed control & overheat LED |
| **Other Features** | ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC,TM2 & CPU thermal trip support for processor protection | ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC,TM2 & CPU thermal trip support for processor protection | ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, TM2 & CPU thermal trip support for processor protection | ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC support, STR, TM2 & CPU thermal trip support for processor protection |
| **BIOS** | Phoenix 8Mb Flash ROM | Phoenix 8Mb Flash ROM | Phoenix 8Mb Flash ROM | Phoenix 8Mb Flash ROM |

† For the most current product information, visit: http://www.supermicro.com/products/accessories/addon/SIM.cfm

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### SC823MTQ-R700UB

- 700W redundant power supply
- 3 x 3.5" hot-swap SAS / SATA drive bays
- 4 x 40mm x 56mm counter rotating fan
- 4FH + 3LP I/O Expansion Slot
- Power switch & 6 LED indicators

### SC835TQ-R800B

- 8 hot-swap drive bays
- 100% cooling redundancy
- 800W redundant power supply w/I²C
- High-efficiency power
- 3U x 25.5"

### SC936A/E1/E2-R900B

- 7x full-height full-length expansion slots
- 100% cooling redundancy
- 16x hot-swap hard drive bays
- 900W (1+1) high-efficiency redundant power supply
- 3U x 25.5"

### SC743 Series
- 8 hot-swap drive bays
- 6 hot-swap fans for 100% cooling redundancy
- 7 tool-less expansion slots
- 90-degree rotatable drive bay module
- 865W/645W power supply
- 4U/Tower x 25.5"

### SC745 Series
- 8 hot-swap drive bays
- Tower/4U rackmount server chassis
- 7 tool-less expansion slots.
- 90-degree rotatable drive bay module
- 100% cooling redundancy
- 800W redundant power supply with I²C management
- High-efficiency power

| MB / Chassis | X7DWN+ | X7DWA-N | X7DBN | X7DAL-E/E+ | Fan Setting |
|---|---|---|---|---|---|
| 2U SC825 Series | SC825TQ-R700LP<br>• 8 hot-swap drive bays<br>• High-efficiency power supply<br>• 700W redundant<br>• Air shroud MCP-310-82502-ON*<br>• Passive heatsink: SNK-P0025P* | | SC825TQ-R700LPV<br>SC825TQ-560LPV<br>• 8 hot-swap drive bays<br>• High-efficiency power supply<br>• 700W redundant/560W power supply<br>• Passive heatsink: SNK-P0025P* | | 3-pin Server |
| 2U SC823 Series | | | SC823TQ-R550LP*/R500LP†<br>SC823T-550LP*/R500RC†<br>SC823i-550LP†<br>• 6 hot-swap drive bays<br>• 550W/500W redundant power supply<br>• Passive heatsink: SNK-P0025P*<br>• Riser card: CSE-RR2UE-AX*/<br>  RSC-R2UE-A3E8*<br>  (for SC823TQ/SC823T/SC823i-R500RC) | | 3-pin Server |
| 3U SC836 Series | | | SC836TQ-R800B<br>• 100% cooling redundancy<br>• 16 hot-swap drive bays<br>• High-efficiency power supply<br>• 800W redundant power supply w/ I²C<br>• Controller card required for 16 drives<br>• Passive heatsink: SNK-P0025P* | | 3-pin Server |
| 3U SC835 Series | | | SC835TQ-R800B<br>• 100% cooling redundancy<br>• 8 hot-swap drive bays<br>• 800W redundant power supply w/ I²C<br>• Passive heatsink: SNK-P0025P* | | 3-pin Server |
| 3U SC936 Series | | | SC936TQ/A/E2/E1-R900B<br>• 100% cooling redundancy<br>• 16 hot-swap drive bays<br>• 900W redundant power supply w/ I²C<br>• Controller card required for 16 drives<br>• Passive heatsink: SNK-P0025P* | | 3-pin Server |
| 4U/Tower SC743 Series | | SC743TQ-865B/SC743T-645<br>• 8 hot-swap drive bays<br>• 865W/645W power supply<br>• Power supply w/low-noise control<br>• Passive heatsink: SNK-P0025P*<br>• Exhaust fan: FAN-0091L* | SC743T-R760/650<br>SC743TQ-R760<br>SC743i-R760/650<br>• 100% cooling redundancy<br>• 8 hot-swap drive bays (SC743TQ/SC743T)<br>• 8 fixed drive bays (SC743i)<br>• 760W triple redundant/650W power supply<br>• Passive heatsink: SNK-P0025P* | SC743T-645 / SC743i-645<br>• 8 hot-swap drive bays (SC743T)<br>• 8 fixed drive bays (SC743i)<br>• 645W low-noise power supply<br>• Active heatsink: SNK-P0020A4*<br>• Exhaust fan FAN-0091L required* | 3-pin Server or 4-pin PWM Workstation |
| 4U/Tower SC745 Series | SC745TQ-R800<br>• 100% cooling redundancy<br>• 8 hot-swap drive bays<br>• High-efficiency power supply<br>• 800W redundant w/ I²C management<br>• Passive heatsink: SNK-P0025P* | | SC745TQ-R800/800<br>• 100% cooling redundancy<br>• 8 hot-swap drive bays<br>• High-efficiency power supply<br>• 800W redundant/800W power supply<br>  w/ I²C management<br>• Passive heatsink: SNK-P0025P* | | 3-pin Server |
| Mid-Tower SC733 | | | | SC733TQ-645/465<br>SC733T/SC733i-645<br>SC733E-465<br>• 4 hot-swap drive bays (SC733T/SC733TQ)<br>• 4 fixed drive bays (SC733i/SC733E)<br>• 645W low-noise power supply<br>• 465W low-noise power supply<br>• Active heatsink: SNK-P0020A4 | 4-pin Workstation |

† Supports CPUs less than 100W
* Sold separately

| MODEL | H8DMU+ | H8SMU |
|---|---|---|
| **Processor (AMD)** | Quad-Core/ Dual-Core AMD Opteron™ 2000 Series Processors | Dual-Core AMD Opteron™ 1000 Series Processors |
| **Chipset/ System Bus** | nVidia® MCP55-Pro | nVidia® MCP55-Pro |
| **Form Factor** | Ext. ATX 12.175" x 13.05" | Proprietary 7.89" x 13.05" |
| **Optimized Chassis** | 1U: SC812L-520U SC815TQ-560U SC815TQ-R650U 2U: SC823MTQ-R700U SC825MTQ-R700U SC825TQ-R700U | Mini 1U: SC515-280UB 1U: SC812L-280 SC815TQ-R450U/560U |
| **Memory Capacity & Slots** | 64GB ECC Registered DDR2 667/533/400 SDRAM in 16 DIMMs** | 8GB ECC/non-ECC Unbuffered DDR2 800/667/533 SDRAM in 4 DIMMs |
| **Expansion Slots** | 1U Left Slot: 1 Universal I/O (UIO) slot & 1 PCI-E x8 via riser card or 2 PCI-E x8 via riser card 2U Solution: *Refer to Riser Cards pages* SIMSO socket† | 1U Left Slot: 1 Universal I/O (UIO) slot & 1 PCI-E x8 via riser card or 2 PCI-E x8 via riser card 1U Right Slot: 1 PCI-E x8 SIMSO socket† |
| **Onboard SCSI/ SATA/SAS/SATA RAID** | nVidia® MCP55-Pro for 6 SATA2 ports, (3 Gbps) RAID 0, 1, 0+1, 5, JBOD | nVidia® MCP55-Pro for 4 SATA2 ports, (3 Gbps) RAID 0, 1, 0+1, 5, JBOD |
| **Onboard LAN** | Dual LAN with nVidia® MCP55-Pro Gigabit Ethernet | Dual LAN with nVidia® MCP55-Pro Gigabit Ethernet |
| **Onboard VGA** | ATI® ES1000 16MB PCI graphics controller | ATI® ES1000 16MB PCI graphics controller |
| **Built-in EIDE USB Ports** | Single ATA133/100 Up to 6 USB 2.0 ports | Single ATA133/100 Up to 4 USB 2.0 ports |
| **Other Onboard I/O Devices** | • 1 floppy port • 2 fast UART 16550 serial ports • PS/2 mouse & keyboard conn. | • 1 floppy port • 2 fast UART 16550 serial ports • PS/2 mouse & keyboard conn. |
| **Manageability** | AOC-SIMSO(+) Watch Dog SuperDoctor® III | AOC-SIMSO(+) Watch Dog SuperDoctor® III |
| **PC Health Monitoring** | Monitors CPU core voltages, CPU 5-phase-switching voltage regulator, 3.3V, +5V, +12V, -12V, 5V standby, 1.5V, VBAT, HyperTransport technology voltage 1.2V, memory voltage 1.8V, and total of 8-fan status, supports system management utility, mem VTT, MCP55 Vcore, chassis intrusion header | Monitors CPU core voltages, 3.3V, +5V, +12V, 5V standby, VBAT, and total of 5-fan status, supports system management utility, chassis intrusion header |
| **Thermal Control** | Fan speed control & overheat LED indication | Fan speed control & overheat LED indication |
| **Other Features** | • ACPI power management • Internal/external modem ring-on • WOL • Power-on mode control for recovery from AC power loss | • ACPI power management • Internal/external modem ring-on • WOL • Power-on mode control for recovery from AC power loss |
| **BIOS** | AMI 8 Mb Flash ROM | AMI 4 Mb Flash ROM |

† For the most current product information, visit: *http://www.supermicro.com/products/accessories/addon/SIM.cfm*
** Fully populated DDR2 667 memory will be downgraded to DDR2 533

## SC812L-U Series
- 3 internal drive bays
- Cost-effective design
- High density slim 1U rackmount
- 520W/280W high-efficiency power supply
- Supports 2FH/FL+1LP expansion cards

## SC815-U Series
- 4 hot-swap drive bays
- High density slim 1U rackmount
- 560W high-efficiency power supply
- 650W/450W redundant high-efficiency power supply available

## SC825-U Series
- 8 hot-swap drive bays
- Supports 4FH/FL+2LP expansion cards with UIO
- 700W redundant high-efficiency power supply with I²C management

## SC515-U
- 1 x 3.5" or 2 x 2.5" fixed HDDs (optional)
- 280W high-efficiency power supply
- Supports 2FH expansion cards
- Compact 1U chassis (18" depth)
- Front access I/O

## SC823MTQ-R700U
- 3 hot-swap drive bays (rear)
- Supports 4FH+2LP expansion cards
- 700W redundant power supply
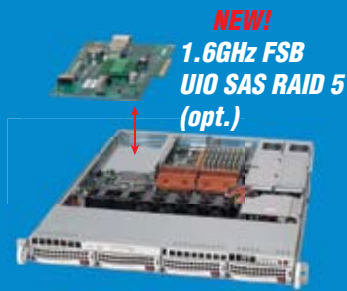- Compact 2U chassis
- Front access I/O

## SC825MTQ-R700U
- 3 hot-swap drive bays
- Supports 4FH+2LP expansion cards
- 700W redundant power supply
- Compact 2U chassis

| MB / Chassis | H8DMU+ | H8SMU | Fan Setting |
|---|---|---|---|
| Mini 1U SC515-U | | **SC515-280U**<br>• Low-cost front-side access solution<br>• 1 x 3.5" or 2 x 2.5" internal drive bays<br>• 280W high-efficiency power<br>• Passive heatsink: SNK-P0026*<br>• Riser cards<br>  Left slot:   RSC-R1UU-2E8*<br>• Air shroud:  MCP-310-51501-0B | 3-pin Server |
| 1U SC812L-U | **SC812L-520U†**<br>• Low-cost solution<br>• 3 internal drive bays<br>• 520W high-efficiency power<br>• Passive heatsink: SNK-P0022*<br>• Riser card:<br>  Left slot:   RSC-R1UU-2E8<br>• Air shroud:  MCP-310-81203-0B* | **SC812L-280U**<br>• Low-cost solution<br>• 3 internal drive bays<br>• 280W high-efficiency power<br>• Passive Heatsink: SNK-P0026*<br>• Riser Cards<br>  Left Slot:   RSC-R1UU-2E8*<br>  Right Slot:  RSC-R1UU-E8R+*<br>• Air Shroud:  MCP-310-81202-0B* | 3-pin Server |
| 1U SC815TQ-U Series | **SC815TQ-560U/R650U†**<br>• 4 hot-swap drive bays<br>• High-efficiency Power<br>• 560W/650W redundant power supply<br>• Passive heatsink: SNK-P0022*<br>• Riser card:<br>  Left Slot:   RSC-R1UU-UE8*<br>• Air shroud:  MCP-310-0026-01* | **SC815TQ-R450U/560U**<br>• 4 hot-swap drive bays<br>• 560W/450W redundant power supply<br>• Passive heatsink: SNK-P0026*<br>• Riser Cards<br>  Left Slot:   RSC-R1UU-UE8*<br>  Right Slot:  RSC-R1UU-E8R+*<br>• Air Shroud:  MCP-310-0033-01* | 3-pin Server |
| 2U SC823MTQ-U | **SC823MTQ-R700U†**<br>• 3 hot-swap drive bays<br>• 700W redundant with I²C management<br>• Passive heatsink: SNK-P0022*<br>• Riser card<br>  Left Slot:   RSC-R2UU-UA3E8*<br>  Right Slot:  RSC-R2UU-UE8R*<br>• Air shroud:  MCP-310-82302-0B* | | 3-pin Server |
| 2U SC825MTQ-U | **SC825MTQ-R700U†**<br>• 3 hot-swap drive bays<br>• 700W redundant with I²C management<br>• Passive heatsink: SNK-P0022*<br>• Riser card<br>  Left Slot:   RSC-R2UU-UA3E8*<br>  Right Slot:  RSC-R2UU-UE8R*<br>• Air shroud:  MCP-310-82505-0B* | | 3-pin Server |
| 2U SC825TQ-U | **SC825TQ-R700U†**<br>• 8 hot-swap drive bays<br>• 700W redundant with I²C management<br>• Passive heatsink: SNK-P0023P*<br>• Riser card<br>  Left Slot:   RSC-R2UU-UA3E8*<br>  Right Slot:  RSC-R2UU-UE8R*<br>• Air shroud:  MCP-310-0025-01* | | 3-pin Server |

† Supports CPUs less than 100W
* Sold separately

## SuperServer Solutions

**NEW!**
1.6GHz FSB
UIO SAS RAID 5
(opt.)

**NEW!**
1.6GHz FSB
3 Add-on Cards

**NEW!**
1.6GHz FSB
3 Add-on Cards

| | SuperServer 6015W-UR/U | SuperServer 6015W-NTR/NT | SuperServer 6015W-Ni |
|---|---|---|---|
| **Processor Support** | Quad-Core/Dual-Core Intel® Xeon® processor 5400/5300LV/5200/5100LV series (LGA771) | Quad-Core/Dual-Core Intel® Xeon® processor 5400/5300LV/5200/5100LV series (LGA771) | Quad-Core/Dual-Core Intel® Xeon® processor 5400/5300LV/5200/5100LV series (LGA771) |
| **Key Applications** | High-end enterprise server, SQL server, high performance computing cluster (HPCC), explicitly parallel instruction computing (EPIC) | High-end enterprise server, SQL server, high performance computing cluster (HPCC), explicitly parallel instruction computing (EPIC) | High-end enterprise server, SQL server, high performance computing cluster (HPCC), explicitly parallel instruction computing (EPIC) |
| **Outstanding Features** | • 1600MHz FSB<br>• Universal I/O (UIO) slot<br>• 1.8V & 1.5V FBD supported<br>• 4 hot-swap drive bays<br>• 64 GB FB-DIMM memory<br>• 2 PCI-E Gigabit Ethernet ports<br>• IPMI 2.0 with virtual media over LAN & KVM-over-LAN (opt.)<br>• UID LED | • 1600MHz FSB<br>• Support up to 3 add-on cards<br>• 1.8V & 1.5V FBD supported<br>• 4 hot-swap drive bays<br>• 64 GB FB-DIMM memory<br>• 2 PCI-E Gigabit Ethernet ports<br>• IPMI 2.0 with virtual media over LAN & KVM-over-LAN (opt.)<br>• UID LED | • 1600MHz FSB<br>• Support up to 3 add-on cards<br>• 1.8V & 1.5V FBD supported<br>• 3 fixed drive bays<br>• 64 GB FB-DIMM memory<br>• 2 PCI-E Gigabit Ethernet ports<br>• IPMI 2.0 with virtual media over LAN & KVM-over-LAN (opt.)<br>• UID LED |
| **Chipset/Serverboard™** | Intel® 5400 chipset with 1.6GHz FSB/ SUPER®° X7DWU | Intel® 5400 chipset with 1.6GHz FSB/ SUPER®° X7DWU | Intel® 5400 chipset with 1.6GHz FSB/ SUPER®° X7DWU |
| **System Memory (Max.)** | 64 GB Fully-buffered DIMM (FBD) DDR2 800/667 in 8 DIMM sockets 1.8V & 1.5V FBD supported | 64 GB Fully-buffered DIMM (FBD) DDR2 800/667 in 8 DIMM sockets 1.8V & 1.5V FBD supported | 64 GB Fully-buffered DIMM (FBD) DDR2 800/667 in 8 DIMM sockets 1.8V & 1.5V FBD supported |
| **Expansion Slots** | SIMSO socket<br>Right slot:<br>1 PCI-E x8<br>Left slot:<br>1 Universal I/O (UIO) slot via riser card<br>1 PCI-E x8 (Gen 2.0) | SIMSO socket<br>Right slot:<br>1 PCI-E x8<br>Left slot:<br>2 PCI-E x8 (Gen 2.0) | SIMSO socket<br>Right slot:<br>1 PCI-E x8<br>Left slot:<br>2 PCI-E x8 (Gen 2.0) |
| **Onboard SAS/SCSI/SATA/ SATA RAID** | Intel® ESB2 for 6 SATA (3 Gbps) RAID 0, 1, 5, 10 Optional UIO SAS controller cards | Intel® ESB2 for 6 SATA (3 Gbps) RAID 0, 1, 5, 10 | Intel® ESB2 for 6 SATA (3 Gbps) RAID 0, 1, 5, 10 |
| **Onboard LAN/VGA** | Dual LAN with Intel® 82575EB PCI-E Gigabit Ethernet controllers ATI® ES1000 32MB graphics controller | Dual LAN with Intel® 82575EB PCI-E Gigabit Ethernet controllers ATI® ES1000 32MB graphics controller | Dual LAN with Intel® 82575EB PCI-E Gigabit Ethernet controllers ATI® ES1000 32MB graphics controller |
| **Manageability** | Optional SIMSO(+) IPMI 2.0 (KVM-over-LAN), *CBL-0177L is required to support dedicated LAN;* SuperDoctor® III; Watch Dog | Optional SIMSO(+) IPMI 2.0 (KVM-over-LAN), *CBL-0177L is required to support dedicated LAN;* SuperDoctor® III; Watch Dog | Optional SIMSO(+) IPMI 2.0 (KVM-over-LAN), *CBL-0177L is required to support dedicated LAN;* SuperDoctor® III; Watch Dog |
| **Internal Storage (Max.)** | SAS: 1.2 TB *(UIO SAS Controller Req.)* SATA: 4 TB | SATA: 4 TB | SATA: 3 TB |
| **Drive Bays** | 4 x 3.5" hot-swap drive bays | 4 x 3.5" hot-swap drive bays | 3 x 3.5" internal drive bays |
| **Peripheral Bays** | 1 slim DVD-ROM drive | 1 slim DVD-ROM drive | N/A |
| **Power Supply** | 6015W-UR:<br>650W redundant high-efficiency w/I²C<br>6015W-U:<br>560W high-efficiency | 6015W-NTR:<br>650W redundant high-efficiency w/I²C<br>6015W-NT:<br>560W high-efficiency | 520W high-efficiency |
| **Cooling System** | 4 x 4cm counter-rotating fans w/optimal fan speed control & air shroud | 4 x 4cm counter-rotating fans w/optimal fan speed control & air shroud | 2 x 10cm heavy-duty blowers |
| **Form Factor** | 1U Rackmount 437 x 43 x 650mm (17.2" x 1.7" x 25.6") | 1U Rackmount 437 x 43 x 650mm (17.2" x 1.7" x 25.6") | 1U Rackmount 426 x 43 x 650mm (16.8" x 1.7" x 25.6") |

**SuperServer Solutions**

NEW!
**UIO SAS RAID 5 (opt.)**

NEW!
**3 Add-on Cards**

NEW!
**1.6GHz FSB
3 Add-on Cards**

| | SuperServer 6015C-UR/U | SuperServer 6015C-NTR/NT | SuperServer 6015C-Ni |
|---|---|---|---|
| **Processor Support** | Quad-Core/Dual-Core Intel® Xeon® processor 5400/5300/5200/5100 series (LGA771) | Quad-Core/Dual-Core Intel® Xeon® processor 5400/5300/5200/5100 series (LGA771) | Quad-Core/Dual-Core Intel® Xeon® processor 5400/5300/5200/5100 series (LGA771) |
| **Key Applications** | High-end enterprise server, SQL server, high performance computing cluster (HPCC), explicitly parallel instruction computing (EPIC) | High-end enterprise server, SQL server, high performance computing cluster (HPCC), explicitly parallel instruction computing (EPIC) | High-end enterprise server, SQL server, high performance computing cluster (HPCC), explicitly parallel instruction computing (EPIC) |
| **Outstanding Features** | • Universal I/O (UIO) slot<br>• 4 hot-swap drive bays<br>• 32GB of DDRII Reg. ECC<br>• 2 PCI-Express Gigabit Ethernet ports<br>• IPMI 2.0 with virtual media over LAN & KVM-over-LAN (opt.)<br>• UID LED | • Support up to 3 add-on cards<br>• 4 hot-swap drive bays<br>• 32GB of DDRII Reg. ECC<br>• 2 PCI-Express Gigabit Ethernet ports<br>• IPMI 2.0 with virtual media over LAN & KVM-over-LAN (opt.)<br>• UID LED | • Support up to 3 add-on cards<br>• 3 fixed drive bays<br>• 32GB of DDRII Reg. ECC<br>• 2 PCI-Express Gigabit Ethernet ports<br>• IPMI 2.0 with virtual media over LAN & KVM-over-LAN (opt.)<br>• UID LED |
| **Chipset/Serverboard™** | Intel® 5100 chipset/<br>SUPER●® X7DCU | Intel® 5100 chipset/<br>SUPER●® X7DCU | Intel® 5100 chipset<br>SUPER●® X7DCU |
| **System Memory (Max.)** | 32GB of DDR2 Reg. ECC 667/533 SDRAM | 32GB of DDR2 Reg. ECC 667/533 SDRAM | 32GB of DDR2 Reg. ECC 667/533 SDRAM |
| **Expansion Slots** | SIMSO socket<br>Right slot:<br>1 PCI-E x8<br>Left slot:<br>1 Universal I/O (UIO) slot via riser card<br>1 PCI-E x8 | SIMSO socket<br>Right slot:<br>PCI-E x8<br>Left slot:<br>2 PCI-E x8 | SIMSO socket<br>Right slot:<br>PCI-E x8<br>Left slot:<br>2 PCI-E x8 |
| **Onboard SAS/SCSI/SATA/ SATA RAID** | Intel® ICH9R for 6 SATA (3 Gbps) RAID 0, 1, 5, 10 Optional UIO SAS controller cards | Intel® ICH9R for 6 SATA (3 Gbps) RAID 0, 1, 5, 10 | Intel® ICH9R for 6 SATA (3 Gbps) RAID 0, 1, 5, 10 |
| **Onboard LAN/VGA** | Dual LAN with Intel® 82575EB PCI-E Gigabit Ethernet controllers ATI® ES1000 32MB graphics controller | Dual LAN with Intel® 82575EB PCI-E Gigabit Ethernet controllers ATI® ES1000 32MB graphics controller | Dual LAN with Intel® 82575EB PCI-E Gigabit Ethernet controllers ATI® ES1000 32MB graphics controller |
| **Manageability** | Optional SIMSO(+) IPMI 2.0 (KVM-over-LAN); SuperDoctor® III; Watch Dog | Optional SIMSO(+) IPMI 2.0 (KVM-over-LAN); SuperDoctor® III; Watch Dog | Optional SIMSO(+) IPMI 2.0 (KVM-over-LAN); SuperDoctor® III; Watch Dog |
| **Internal Storage (Max.)** | SAS: 1.2 TB (UIO SAS Controller Req.) SATA: 4 TB | SATA: 4 TB | SATA: 3 TB |
| **Drive Bays** | 4 x 3.5" hot-swap drive bays | 4 x 3.5" hot-swap drive bays | 3 x 3.5" internal drive bays |
| **Peripheral Bays** | 1 slim DVD-ROM drive | 1 slim DVD-ROM drive | N/A |
| **Power Supply** | 6015C-UR:<br>650W redundant high-efficiency w/I²C<br>6015C-U:<br>560W high-efficiency | 6015C-NTR:<br>650W redundant high-efficiency w/I²C<br>6015C-NT:<br>560W high-efficiency | 520W high-efficiency |
| **Cooling System** | 4 x 4cm counter-rotating fans w/optimal fan speed control & air shroud | 4 x 4cm counter-rotating fans w/optimal fan speed control & air shroud | 2 x 10cm heavy-duty blowers |
| **Form Factor** | 1U Rackmount 437 x 43 x 650mm (17.2" x 1.7" x 25.6") | 1U Rackmount 437 x 43 x 650mm (17.2" x 1.7" x 25.6") | 1U Rackmount 426 x 43 x 650mm (16.8" x 1.7" x 25.6") |

11

**SuperServer Solutions**

UIO SAS RAID 5 Card (opt.)

3 Add-on Cards

3 Add-on Cards

| | SuperServer 6015B-UR/U | SuperServer 6015B-NTR/NT | SuperServer 6015B-Ni |
|---|---|---|---|
| **Processor Support** | Dual Intel® Quad-Core/Dual-Core Xeon® processor 5400/5300/5200/5100/5000 sequence (LGA771) | Dual Intel® Quad-Core/Dual-Core Xeon® processor 5400/5300/5200/5100/5000 sequence (LGA771) | Dual Intel® Quad-Core/Dual-Core Xeon® processor 5400/5300/5200/5100/5000 sequence (LGA771) |
| **Key Applications** | High-end enterprise server, SQL server, high performance computing cluster (HPCC) | High-end enterprise server, SQL server, high performance computing cluster (HPCC) | High-end enterprise server, SQL server, high performance computing cluster (HPCC) |
| **Outstanding Features** | • Universal I/O (UIO) slot<br>• 4 hot-swap drive bays<br>• 32 GB FB-DIMM memory<br>• 2 PCI-Express Gigabit Ethernet ports<br>• IPMI 2.0 with virtual media over LAN & KVM-over-LAN (opt.)<br>• UID LED | • Supports up to 3 add-on cards<br>• 4 hot-swap drive bays<br>• 32 GB FB-DIMM memory<br>• 2 PCI-Express Gigabit Ethernet ports<br>• IPMI 2.0 with virtual media over LAN & KVM-over-LAN (opt.)<br>• UID LED | • Supports up to 3 add-on cards<br>• 3 fixed drive bays<br>• 32 GB FB-DIMM memory<br>• 2 PCI-Express Gigabit Ethernet ports<br>• IPMI 2.0 with virtual media over LAN & KVM-over-LAN (opt.)<br>• UID LED |
| **Chipset/Serverboard™** | Intel® 5000P chipset/<br>SUPER●® X7DBU | Intel® 5000P chipset/<br>SUPER●® X7DBU | Intel® 5000P chipset/<br>SUPER●® X7DBU |
| **System Memory (Max.)** | 32 GB Fully-buffered DIMM (FBD) DDR2 667/533 in 8 DIMM sockets | 32 GB Fully-buffered DIMM (FBD) DDR2 667/533 in 8 DIMM sockets | 32 GB Fully-buffered DIMM (FBD) DDR2 667/533 in 8 DIMM sockets |
| **Expansion Slots** | SIMSO socket<br>Right slot:<br>1 Universal PCI-X 133 or PCI-E x8<br>Left slot:<br>1 PCI-E x8 & UIO slot | SIMSO socket<br>Right slot:<br>1 Universal PCI-X 133 or PCI-E x8<br>Left slot:<br>2 PCI-E x8 | SIMSO socket<br>Right slot:<br>1 Universal PCI-X 133 or PCI-E x8<br>Left slot:<br>2 PCI-E x8 |
| **Onboard SAS/SCSI/SATA/ SATA RAID** | Intel® ESB2 for 6 SATA (3 Gbps) RAID 0, 1, 5, 10 Optional SAS controller cards | Intel® ESB2 for 6 SATA (3 Gbps) RAID 0, 1, 5, 10 | Intel® ESB2 for 6 SATA (3 Gbps) RAID 0, 1, 5, 10 |
| **Onboard LAN/VGA** | Dual LAN with Intel® 82563 PCI-Express Gigabit Ethernet controllers ATI® ES1000 16MB PCI graphics controller | Dual LAN with Intel® 82563 PCI-Express Gigabit Ethernet controllers ATI® ES1000 16MB PCI graphics controller | Dual LAN with Intel® 82563 PCI-Express Gigabit Ethernet controllers ATI® ES1000 16MB PCI graphics controller |
| **Manageability** | Optional SIMSO(+) IPMI 2.0 (KVM-over-LAN), *CBL-0177L is required to support dedicated LAN;* SuperDoctor® III, Watch Dog | Optional SIMSO(+) IPMI 2.0 (KVM-over-LAN), *CBL-0177L is required to support dedicated LAN;* SuperDoctor® III, Watch Dog | Optional SIMSO(+) IPMI 2.0 (KVM-over-LAN), *CBL-0177L is required to support dedicated LAN;* SuperDoctor® III, Watch Dog |
| **Internal Storage (Max.)** | SAS: 1.2 TB *(UIO SAS Controller Req.)*<br>SATA: 4 TB | SATA: 4 TB | SATA: 3 TB |
| **Drive Bays** | 4 x 3.5" hot-swap drive bays | 4 x 3.5" hot-swap drive bays | 3 x 3.5" internal drive bays |
| **Peripheral Bays** | 1 slim DVD-ROM drive | 1 slim DVD-ROM drive | N/A |
| **Power Supply** | 6015B-UR:<br>Redundant high-efficiency 650W w/I²C<br>6015B-U: 560W high-efficiency | 6015B-NTR:<br>Redundant high-efficiency 650W w/I²C<br>6015B-NT: 560W high-efficiency | 520W high-efficiency |
| **Cooling System** | 4 x 4cm counter-rotating fans w/optimal fan speed control & air shroud | 4 x 4cm counter-rotating fans w/optimal fan speed control & air shroud | 2 x 10cm heavy-duty blowers |
| **Form Factor** | 1U Rackmount<br>437 x 43 x 650mm (17.2" x 1.7" x 25.6") | 1U Rackmount<br>437 x 43 x 650mm (17.2" x 1.7" x 25.6") | 1U Rackmount<br>426 x 43 x 650mm (16.8" x 1.7" x 25.6") |

**UIO SAS RAID 5 Card (opt.)**

**3 Add-on Cards**

**3 Add-on Cards**

**SuperServer Solutions**

| | SuperServer 5015M-UR/U | SuperServer 5015M-NTR/NT | SuperServer 5015M-Ni |
|---|---|---|---|
| **Processor Support** | Intel® Quad-Core Extreme QX6700 Xeon® 3200/3000 & Core 2 Duo processor E6000 & E4000 sequence (LGA775) | Intel® Quad-Core Extreme QX6700 Xeon® 3200/3000 & Core 2 Duo processor E6000 & E4000 sequence (LGA775) | Intel® Quad-Core Extreme QX6700 Xeon® 3200/3000 & Core 2 Duo processor E6000 & E4000 sequence (LGA775) |
| **Key Applications** | NAS storage, file server, mail server, web server for small businesses & other server applications | NAS storage, file server, mail server, web server for small businesses & other server applications | High-end file/print server, web server, communication gateway, primary server for small business, server clustering |
| **Outstanding Features** | • Universal I/O (UIO) slot<br>• 4 hot-swap drive bays<br>• 8 GB DDRII 667 SDRAM<br>• 2 PCI-Express Gigabit Ethernet ports<br>• IPMI 2.0 with virtual media over LAN & KVM-over-LAN (opt.)<br>• UID LED | • Supports up to 3 add-on cards<br>• 4 hot-swap drive bays<br>• 8 GB DDRII 667 SDRAM<br>• 2 PCI-Express Gigabit Ethernet ports<br>• IPMI 2.0 with virtual media over LAN & KVM-over-LAN (opt.)<br>• UID LED | • Supports up to 3 add-on cards<br>• 3 fixed drive bays<br>• 8 GB DDRII 667 SDRAM<br>• 2 PCI-Express Gigabit Ethernet ports<br>• IPMI 2.0 with virtual media over LAN & KVM-over-LAN (opt.)<br>• UID LED |
| **Chipset/Serverboard™** | Intel® 3010 chipset/ SUPER●® PDSMU | Intel® 3010 chipset/ SUPER●® PDSMU | Intel® 3010 chipset/ SUPER●® PDSMU |
| **System Memory (Max.)** | 8 GB Dual-Channel Unb. ECC, non ECC DDR2 667 SDRAM in 4 DIMM sockets | 8 GB Dual-Channel Unb. ECC, non ECC DDR2 667 SDRAM in 4 DIMM sockets | 8 GB Dual-Channel Unb. ECC, non ECC DDR2 667 SDRAM in 4 DIMM sockets |
| **Expansion Slots** | SIMSO socket<br>Right slot:<br>1 PCI-E x4 (in x8 slot)<br>Left slot:<br>1 PCI-E x8 & UIO slot | SIMSO socket<br>Right slot:<br>1 PCI-E x4 (in x8 slot)<br>Left slot:<br>2 PCI-E x8 | SIMSO socket<br>Right slot:<br>1 PCI-E x4 (in x8 slot)<br>Left slot:<br>2 PCI-E x8 |
| **Onboard SAS/SCSI/SATA/ SATA RAID** | Intel® ICH7R for 4 SATA (3 Gbps) RAID 0, 1, 5, 10<br>*Optional SAS controller cards, see Riser Card page* | Intel® ICH7R for 4 SATA (3 Gbps) RAID 0, 1, 5, 10 | Intel® ICH7R for 4 SATA (3 Gbps) RAID 0, 1, 5, 10 |
| **Onboard LAN/VGA** | Dual LAN with Intel® 82573V/L PCI-E Gigabit Ethernet controllers ATI® ES1000 16MB PCI graphics controller | Dual LAN with Intel® 82573V/L PCI-E Gigabit Ethernet controllers ATI® ES1000 16MB PCI graphics controller | Dual LAN with Intel® 82573V/L PCI-E Gigabit Ethernet controllers ATI® ES1000 16MB PCI graphics controller |
| **Manageability** | Optional SIMSO+ IPMI 2.0 (KVM-over-LAN)*;* SuperDoctor® III, Watch Dog | Optional SIMSO+ IPMI 2.0 (KVM-over-LAN)*;* SuperDoctor® III, Watch Dog | Optional SIMSO+ IPMI 2.0 (KVM-over-LAN)*;* SuperDoctor® III, Watch Dog |
| **Internal Storage (Max.)** | SAS: 1.2 TB *(UIO SAS Controller Req.)*<br>SATA: 4TB | SATA: 4 TB (UIO SAS Controller Card Req.) | SATA: 3 TB |
| **Drive Bays** | 4 x 3.5" hot-swap drive bays | 4 x 3.5" hot-swap drive bays | 3 x 3.5" internal drive bays |
| **Peripheral Bays** | 1 slim DVD-ROM drive | 1 slim DVD-ROM drive | N/A |
| **Power Supply** | 5015M-UR:<br>Redundant high-efficiency 450W w/I²C<br>5015M-U: 560W high-efficiency | 5015M-NTR:<br>Redundant high-efficiency 450W w/I²C<br>5015M-NT: 560W high-efficiency | 280W high-efficiency |
| **Cooling System** | 5015M-UR: 3 x 4cm counter-rotating fans<br>5015M-U: 4 x 4cm counter-rotating fans with optimal fan speed control & air shroud | 5015M-NTR: 3 x 4cm counter-rotating fans<br>5015M-NT: 4 x 4cm counter-rotating fans with optimal fan speed control & air shroud | 2 x 10cm heavy-duty blowers |
| **Form Factor** | 1U Rackmount<br>437 x 43 x 650mm (17.2" x 1.7" x 25.6") | 1U Rackmount<br>437 x 43 x 650mm (17.2" x 1.7" x 25.6") | 1U Rackmount<br>426 x 43 x 650mm (16.8" x 1.7" x 25.6") |

| | SuperServer 6025W-NTR+B | SuperServer 6025W-UR | SuperServer 6025C-UR |
|---|---|---|---|
| **Processor Support** | Quad-Core/Dual-Core Intel® Xeon® processor 5400/5300LV/5200/5100LV series (LGA771) | Quad-Core/Dual-Core Intel® Xeon® processor 5400/5300LV/5200/5100LV series (LGA771) | Quad-Core/Dual-Core Intel® Xeon® processor 5400/5300/5200/5100 series (LGA771) |
| **Key Applications** | Business critical applications, front-end server, database applications & video server | High-end enterprise server, SQL server, high performance computing cluster (HPCC), explicitly parallel instruction computing (EPIC) | High-end enterprise server, SQL server, high performance computing cluster (HPCC), explicitly parallel instruction computing (EPIC) |
| **Outstanding Features** | • 1600MHz FSB<br>• Universal I/O (UIO) slot<br>• 1.8V & 1.5V FBD supported<br>• 8 3.5" hot-swap drive bays<br>• 128 GB FB-DIMM memory<br>• 2 PCI-E Gigabit Ethernet ports<br>• IPMI 2.0 with virtual media over LAN & KVM-over-LAN (opt.)<br>• PCI-E 2.0 support | • 1600MHz FSB<br>• Universal I/O (UIO) slot<br>• 1.8V & 1.5V FBD supported<br>• 8 hot-swap drive bays<br>• 64 GB FB-DIMM memory<br>• 2 PCI-E Gigabit Ethernet ports<br>• IPMI 2.0 with virtual media over LAN & KVM-over-LAN (opt.) | • Universal I/O (UIO) slot<br>• 8 hot-swap drive bays<br>• 32GB of DDRII Reg. ECC<br>• 2 PCI-E Gigabit Ethernet ports<br>• IPMI 2.0 with virtual media over LAN & KVM-over-LAN (opt.) |
| **Chipset/Serverboard™** | Intel® 5400 chipset with 1.6GHz FSB/ SUPER●® X7DWN+ | Intel® 5400 chipset with 1.6GHz FSB/ SUPER●® X7DWU | Intel® 5100 chipset/ SUPER●® X7DCU |
| **System Memory (Max.)** | 128 GB Fully-buffered DIMM (FBD) DDR2 800/667 in 16 DIMM sockets 1.8V & 1.5V FBD supported | 64 GB Fully-buffered DIMM (FBD) DDR2 800/667 in 8 DIMM sockets 1.8V & 1.5V FBD supported | 32GB of DDR2 Reg. ECC 667/533 SDRAM |
| **Expansion Slots** | SIMSO socket<br>1 Universal I/O (UIO) slot<br>3 PCI-E x8 (2 in Gen 2.0)<br>1 PCI-E x4 (in x8 slot)<br>2 64-bit PCI-X 133MHz<br>(all are low-profile size) | SIMSO socket<br>Right slot:<br>2 PCI-E x8<br>Left slot (full-height):<br>3 PCI-E x8 or 3 PCI-X 133 optional<br>1 Universal I/O (UIO) slot | SIMSO socket<br>Left slot (full-height):<br>3 PCI-E x8 or 3 PCI-X 133 optional<br>1 Universal I/O (UIO) slot |
| **Onboard SAS/SCSI/SATA/ SATA RAID** | Intel® ESB2 for 6 SATA (3 Gbps) RAID 0, 1, 5, 10 | Intel® ESB2 for 6 SATA (3 Gbps) RAID 0, 1, 5, 10 Optional UIO SAS controller cards | Intel® ICH9R for 6 SATA (3 Gbps) RAID 0, 1, 5, 10 Optional UIO SAS controller cards |
| **Onboard LAN/VGA** | Dual LAN with Intel® 82575EB PCI-E Gigabit Ethernet controllers ATI® ES1000 32MB PCI graphics controller | Dual LAN with Intel® 82575EB PCI-E Gigabit Ethernet controllers ATI® ES1000 32MB PCI graphics controller | Dual LAN with Intel® 82575EB PCI-E Gigabit Ethernet controllers ATI® ES1000 32MB PCI graphics controller |
| **Manageability** | Optional SIMSO(+) IPMI 2.0 (KVM-over-LAN), *CBL-0177L is required to support dedicated LAN;* SuperDoctor® III, Watch Dog | Optional SIMSO(+) IPMI 2.0 (KVM-over-LAN), *CBL-0177L is required to support dedicated LAN;* SuperDoctor® III, Watch Dog | Optional SIMSO(+) IPMI 2.0 (KVM-over-LAN) SuperDoctor® III Watch Dog |
| **Internal Storage (Max.)** | SAS: 2.4 TB *(UIO SAS Controller Req.)* SATA: 6 TB | SAS: 1.2 TB *(UIO SAS Controller Req.)* SATA: 8 TB | SAS: 2.4 TB *(UIO SAS Controller Req.)* SATA: 8 TB |
| **Drive Bays** | 6 x 3.5" hot-swap drive bays, 2 spare bays | 8 x 3.5" hot-swap drive bays & 2 x 3.5" internal drive bays UIO SAS controller card required | 8 x 3.5" hot-swap drive bays & 2 x 3.5" internal drive bays UIO SAS controller card required |
| **Peripheral Bays** | 1 slim DVD-ROM drive, 2 x 3.5 internal drive bays (slim FDD optional) | 1 slim DVD-ROM drive | 1 slim DVD-ROM drive |
| **Power Supply** | 700W Redundant high-efficiency w/I²C | 700W redundant high-efficiency w/I²C | 700W redundant high-efficiency w/I²C |
| **Cooling System** | 3 x 8cm heavy duty fans w/optimal fan speed control & air shroud | 3 x 8cm heavy duty fans w/ optimal fan speed control & air shroud | 3 x 8cm heavy duty fans w/ optimal fan speed control & air shroud |
| **Form Factor** | 2U Rackmount/Tower 437 x 89 x 648mm (17.2" x 3.5" x 25.5") | 2U Rackmount 437 x 89 x 650mm (17.2" x 3.5" x 25.6") | 2U Rackmount 437 x 89 x 650mm (17.2" x 3.5" x 25.6") |

UIO SAS RAID 5 Card (opt.)



UIO SAS RAID 5 Card (opt.)



NEW!
1.6GHz FSB



NEW!
1.6GHz FSB
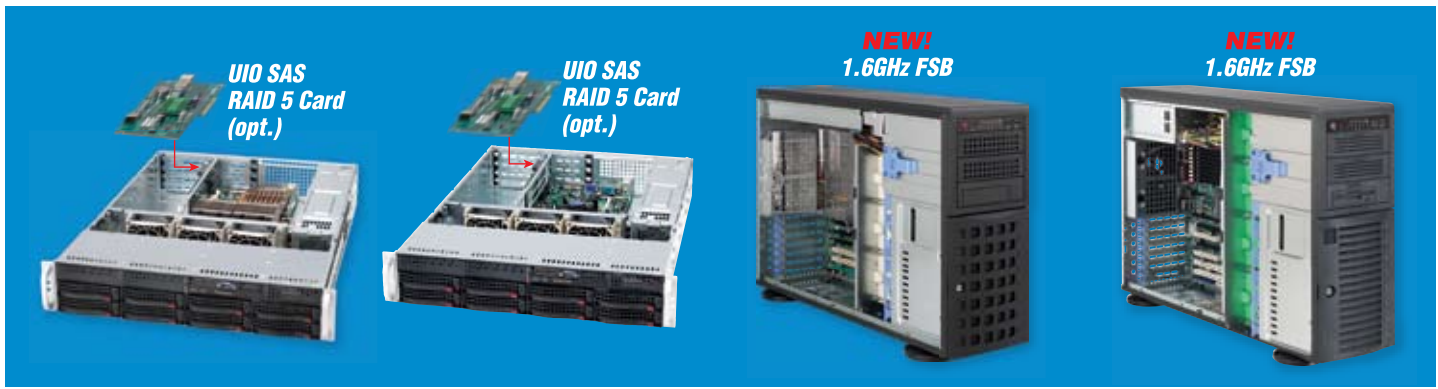
| SuperServer 6025B-UR | SuperServer 5025M-UR | SuperServer 7045W-NTR+B | SuperWorkstation 7045A-WT |
|---|---|---|---|
| Dual Intel® Quad-Core/Dual-Core Xeon® processor 5400, 5300, 5200, 5100 & 5000 sequence (LGA771) | Intel® Quad-Core Extreme QX6700 Xeon® 3000 & Core 2 Duo processor E6000 & E4000 sequence (LGA775) | Dual Intel® Quad-Core/Dual-Core Xeon® 5400, 5300LV, 5200, 5100LV processor | Dual Intel® Quad-Core/Dual-Core Xeon® 5400, 5300LV, 5200, 5100LV processor |
| Business critical applications, front-end server, database applications, primary server for mid-size companies, Internet, e-business, server clustering | NAS storage, file server, mail server, web server for small businesses & other server applications | Mission critical applications, enterprise server, large database, e-business, Internet, on-line transaction processing, NAS | High-end workstation, business critical applications, front-end server, database applications, video server. |
| • 8 hot-swap drive bays<br>• Universal I/O (UIO) slot<br>• 32 GB FB-DIMM memory<br>• 2 PCI-Express Gigabit Ethernet ports<br>• SIMSO socket IPMI 2.0 with virtual media over LAN & KVM-over-LAN (opt.)<br>• 4 full-height & 3 low-profile | • 8 hot-swap drive bays<br>• Universal I/O (UIO) slot<br>• 8 GB DDR2 667 SDRAM<br>• 2 PCI-Express Gigabit Ethernet ports<br>• SIMSO socket IPMI 2.0 with virtual media over LAN & KVM-over-LAN (opt.)<br>• 4 full-height | • 1600MHz FSB<br>• Universal I/O (UIO) slot<br>• 1.8V & 1.5V FBD supported<br>• 8 SATA Drive Bays<br>• PCI-E Gen. 2.0 Support<br>• 128 GB FB-DIMM memory<br>• SIMSO socket IPMI 2.0 with virtual media over LAN & KVM-over-LAN (opt.)<br>• 800W redundancy high-efficiency power | • 1600MHz FSB<br>• 1.8V & 1.5V FBD supported<br>• Up to 8 SATA drive bays w/SES2<br>• 6 PCI-X & PCI-E Gen 2.0<br>• 64 GB FB DIMM memory<br>• 2 PCI-E Gigabit Ethernet ports<br>• Universal I/O (UIO) support<br>• SIMLP slot IPMI 2.0 with virtual media over LAN & KVM-over-LAN (opt.)<br>• Low-noise 865W high-efficiency power |
| Intel® 5000 chipset with 1.3GHz FSB/ SUPER●® X7DBU | Intel® 3010 chipset with 1.06GHz FSB/ SUPER●® PDSMU | Intel® 5400 chipset with 1.6GHz FSB/ SUPER●® X7DWN+ | Intel® 5400 chipset with 1.6GHz FSB/ SUPER●® X7DWA-N |
| 32 GB Fully-buffered DIMM (FBD) DDR2 667/533 in 8 DIMM sockets | 8 GB Dual-Channel Unb. ECC, non ECC DDR2 667 SDRAM in 4 DIMM sockets | 128 GB Fully-buffered DIMM (FBD) DDR2 800/667 in 16 DIMM sockets.<br>1.8V & 1.5V FBD supported | 64GB Fully-Buffered DIMM (FBD) DDR2 800/667 in 8 DIMMs.<br>1.8V & 1.5V FBD supported |
| SIMSO socket<br>Right slot (low-profile):<br>1 PCI-X 133<br>2 PCI-E x4 (in x8 slot)<br>Left slot (full-height):<br>3 PCI-E x8 or 3 PCI-X 133 optional<br>1 Universal I/O (UIO) slot | SIMSO socket<br>Left slot (full-height):<br>1 Universal I/O (UIO)<br>3 PCI-E x8 or 3 PCI-X 133 optional | SIMSO socket<br>3 PCI-E x8 (2 in Gen 2.0)<br>1 Universal I/O (UIO) slot<br>2 PCI-X 133Mhz<br>1 PCI-E x4 | SIMLP slot<br>2 PCI-E x16 (Gen 2.0)<br>1 Universal I/O (UIO) slot<br>2 PCI-X 133Mhz<br>2 PCI 33Mhz |
| Intel® ESB2 for 6 SATA (3 Gbps)<br>RAID 0, 1, 5, 10<br>Optional SAS controller cards,<br>see Riser Card page | Intel® ICH7R for 4 SATA (3 Gbps)<br>RAID 0, 1, 5, 10<br>Optional SAS controller cards<br>see Riser Card page | Intel® ESB2 for 6 SATA (3 Gbps)<br>RAID 0, 1, 5, 10<br>Optional SAS controller cards<br>see Riser Card page | Intel® ESB2 for 6 SATA (3Gbps)<br>RAID 0, 1, 5, 10 |
| Dual LAN with Intel® 82563 PCI-E Gigabit Ethernet controllers<br>ATI® ES1000 16MB PCI graphics controller | Dual LAN with Intel® 82573 PCI-E Gigabit Ethernet controllers<br>ATI® ES1000 16MB PCI graphics controller | Dual LAN with Intel® 82575EB PCI-E Gigabit Ethernet controllers<br>ATI® ES1000 32MB PCI graphics controller | Dual LAN w/Intel® 82575EB Gigabit Ethernet controllers |
| Optional SIMSO(+) IPMI 2.0 (KVM-over-LAN), CBL-0177L is required to support dedicated LAN;<br>SuperDoctor® III;<br>Watch Dog | Optional SIMSO(+) IPMI 2.0 (KVM-over-LAN);<br>SuperDoctor® III;<br>Watch Dog | Optional SIMSO(+) IPMI 2.0 (KVM-over-LAN), CBL-0177L is required to support dedicated LAN;<br>SuperDoctor® III;<br>Watch Dog | Optional SIMLP-B/3 IPMI 2.0 (KVM-over-LAN);<br>SuperDoctor® III;<br>Watch Dog |
| SAS: 2.4 TB (UIO SAS Controller Req.)<br>SATA: 8 TB | SAS: 2.4 TB (UIO SAS Controller Req.)<br>SATA: 8 TB | SAS: 4 TB (UIO SAS Controller Req.)<br>SATA: 6 TB | SAS: 4 TB (UIO SAS Controller Req.)<br>SATA: 6 TB |
| 8 x 3.5" hot-swap drive bays & 2 x 3.5" internal drive bays<br>UIO SAS controller card required | 8 x 3.5" hot-swap drive bays & 2 x 3.5" internal drive bays<br>UIO SAS controller card required | 6 x 3.5" SATA drive bays<br>2 x 3.5" spare SATA drive bays<br>2 x 5.25 spare drive bays | 6 x 3.5" SATA drive bays<br>2 x 3.5" spare SATA drive bays<br>2 x 5.25 spare drive bays |
| 1 slim DVD-ROM drive | 1 slim DVD-ROM drive | 1 floppy drive | 1 floppy drive |
| 700W redundant high-efficiency w/I²C | 700W redundant high-efficiency w/I²C | 800W redundant high-efficiency w/I²C | Low-noise 865W high-efficiency power supply w/ 6-pin power connectors |
| 3 x 8cm heavy-duty fans with optimal fan speed control & air shroud | 3 x 8cm fans w/ optimal fan speed control | 3 x 8cm heavy-duty fans, 2 exhause with optimal fan speed control & air shroud; 100% cooling redundancy | 4 x 8cm & 1 x 9cm 4-pin Pulse Width Modulated (PWM) fans & air shroud |
| 2U Rackmount<br>437 x 89 x 648mm (17.2" x 3.5" x 25.5") | 2U Rackmount<br>437 x 89 x 648mm (17.2" x 3.5" x 25.5") | Tower/4U Rackmount<br>437 x 178 x 648mm (17.2" x 7" x 25.5") | Tower/4U Rackmount<br>437 x 178 x 648mm (17.2" x 7" x 25.5") |

| A+ Server 1011M-Ni | A+ Server 1011M-UR | A+ Server 1021M-UR+ | A+ Server 2021M-UR+ |
|---|---|---|---|
| Dual-Core AMD® Opteron™ 1000 Series Processors | Dual-Core AMD® Opteron™ 1000 Series Processors | Quad-Core AMD® Opteron™ 2000 Series Processors | Quad-Core / AMD® Opteron™ 2000 Series Processors |
| Entry Level Dedicated Server, (NAS) Server | High-end enterprise server, SQL server, high performance computer cluster (HPCC) | High-end enterprise server, SQL server, high performance computer cluster (HPCC) | High-end enterprise server, SQL server, high performance computer cluster (HPCC) |
| • 3 fixed SATA drives<br>• PCI-Express<br>• 8 GB DDR2 800/667/533 SDRAM<br>• 2 Gigabit Ethernet ports<br>• SIMSO socket (IPMI 2.0 with virtual media over LAN & optional KVM-over-LAN)<br>• 280W high-efficiency power supply | • 4 hot-swap drive bays (UIO)<br>• Universal I/O (UIO) and PCI-Express<br>• 8 GB DDR2 800/667/533 SDRAM<br>• 2 Gigabit Ethernet ports<br>• SIMSO socket (IPMI 2.0 with virtual media over LAN & optional KVM-over-LAN)<br>• 450W high-efficiency redundant power supply | • 4 hot-swap hard drive bays (UIO)<br>• Universal I/O (UIO) and PCI-Express<br>• 64 GB DDR2 667/533/400 SDRAM<br>• 2 Gigabit Ethernet ports<br>• SIMSO socket (IPMI 2.0 with virtual media over LAN & optional KVM-over-LAN)<br>• 650W high-efficiency redundant power supply | • 8 hot-swap hard drive bays (UIO)<br>• Universal I/O slot and PCI-Express<br>• 64 GB DDR2 667/533/400 SDRAM<br>• 2 Gigabit Ethernet ports<br>• SIMSO socket (IPMI 2.0 with virtual media over LAN & optional KVM-over-LAN)<br>• 700W high-efficiency redundant power supply |
| H8SMU / HyperTransport™ technology nVidia MCP55-Pro | H8SMU / HyperTransport™ technology nVidia MCP55-Pro | H8DMU+ / HyperTransport™ technology nVidia® MCP55-Pro | H8DMU+ / HyperTransport™ technology nVidia® MCP55-Pro |
| 8GB ECC/non-ECC Unbuffered DDR2 800/667/533 SDRAM in 4 DIMM sockets | 8GB ECC/non-ECC Unbuffered DDR2 800/667/533 SDRAM in 4 DIMM sockets | 64GB ECC Reg. DDR2 667/533/400 SDRAM in 16 DIMM sockets** | 64GB ECC Reg. DDR2 667/533/400 SDRAM in 16 DIMM sockets** |
| SIMSO socket<br>Right Slot:<br>1 PCI-Express x8 (low profile)<br>Left Slot:<br>2 PCI-Express x8 (full size) | SIMSO socket<br>Right Slot:<br>1 PCI-E x8 (low profile)<br>Left Slot:<br>1 Universal I/O (UIO) slot<br>1 PCI-Express x8 | SIMSO socket<br>Left Slot:<br>1 Universal I/O (UIO) slot<br>1 PCI-Express x8 | SIMSO socket<br>Right Slot:<br>1 PCI-Express x8 (low profile)<br>1 PCI-Express x4<br>(in x8 slot, low profile)<br>Left Slot:<br>1 Universal I/O (UIO) slot<br>3 PCI-Express x8 (full size) |
| nVidia® MCP55-Pro for 3 SATA | Optional UIO SAS 4 port controller nVidia MCP55-Pro for 4 SATA | Optional UIO SAS 4 port controller nVidia MCP55-Pro for 4 SATA | Optional UIO SAS 8 port controller nVidia MCP55-Pro for 6 SATA |
| Dual LAN with nVidia® MCP55-Pro Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller | Dual LAN with nVidia® MCP55-Pro Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller | Dual LAN with nVidia® MCP55-Pro Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller | Dual LAN with nVidia® MCP55-Pro Gigabit Ethernet controller ATI® ES1000 16MB PCI graphics controller |
| Optional SIMSO(+) IPMI 2.0 (KVM-over-LAN) SuperDoctor® III Watch Dog | Optional SIMSO(+) IPMI 2.0 (KVM-over-LAN) SuperDoctor® III Watch Dog | Optional SIMSO(+) IPMI 2.0 (KVM-over-LAN), *CBL-0177L is required to support dedicated LAN;* SuperDoctor® III; Watch Dog | Optional SIMSO(+) IPMI 2.0 (KVM-over-LAN), *CBL-0177L is required to support dedicated LAN;* SuperDoctor® III; Watch Dog |
| SATA: 3TB | SAS: 1.2TB *(UIO SAS controller req.)* SATA: 4TB | SAS: 1.2TB *(UIO SAS controller req.)* SATA: 4TB | SAS: 2.4TB *(UIO SAS controller req.)* SATA: 8TB |
| 3 x 3.5" fixed drive bays | 4 x 3.5" hot-swap SAS/SATA drive bays with SES2 support | 4 x 3.5" hot-swap SAS or SATA drive bays with SES2 support | 8 x 3.5" hot-swap SAS or SATA drive bays with SES2 support |
| N/A | 1 slim DVD drive optional 1 slim floppy drive | 1 slim DVD drive optional 1 slim floppy drive | 1 slim DVD drive optional 1 slim floppy drive |
| 280W high-efficiency power supply | 450W high-efficiency redundant power supply w/ I2C | 650W high-efficiency redundant power supply w/ I2C | 700W high-efficiency redundant power supply with I2C |
| 2 x 10cm heavy duty blowers with air shroud & optimal fan speed control | 3 x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control | 4 x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control | 3 x 8cm heavy duty fans with air shroud & optimal fan speed control |
| 1U Rackmount 437 x 43 x 650mm (16.8" x 1.7" x 25.6") | 1U Rackmount 437 x 43 x 650mm (17.2" x 1.7" x 25.6") | 1U Rackmount 437 x 43 x 650mm (17.2" x 1.7" x 25.6") | 2U Rackmount 437 x 89 x 648mm (17.2" x 3.5" x 25.5") |

*** Fully populated DDR2 667 memory will be downgraded to DDR2 533*

# SC515-U
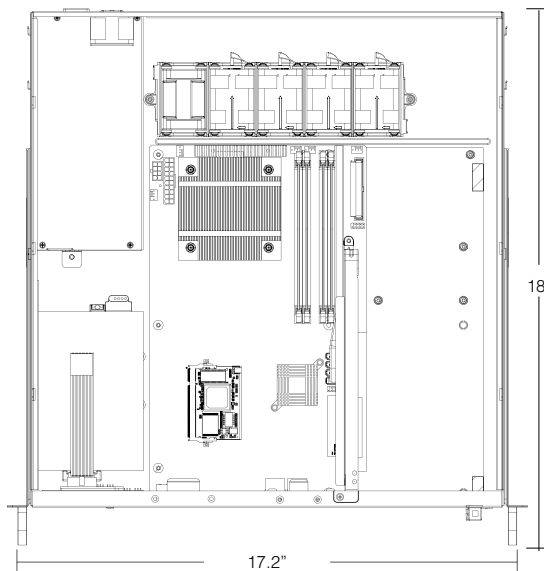## 1U High-Performance UIO Chassis

**Mechanical Drawing**



Front View (SC515-280UB)



Rear View (SC515-280UB)

18"

17.2"

### Features

■ Black

✔ Core 2® Duo/Pentium® D processors supported
✔ 2 full-height PCI/PCI-X/PCI-E
✔ 280W high-efficiency power supply
✔ 3 counter-rotating fans with optimal fan speed control & air shroud

### Specifications

| | |
|---|---|
| **Form Factor** | 1U chassis support for max. motherboard size - 12" x 13" UIO MB |
| **CPU support** | Pentium D®, Core 2® |
| **Expansion** | 2 full-height & full-length expansion slots |
| **Drive Bays** | 1x 3.5" fixed HDD or 2 x 2.5" fixed HDDs (optional) |
| **Power Supply** | 280W high-efficiency power supply |
| **Cooling System** | 3x 40x56mm counter-rotating fans |
| **Front Panel LEDs** | Power LED, hard drive activity LED, 2 network activity LEDs & fan fail / overheat LED |
| **Front Panel Buttons** | Power on/off button, system reset button |
| **Dimensions** | W x H x D: 17.2" (437mm) x 1.7" (43mm) x 18" (650mm)    Packing: 24" x 8" x 26.7" |
| **Rail** | Extendable lengths of 26" to 33.5" |
| **Temperature** | Operating: 10 - 35° C (50° to 95° F)    Non-operating: -40 - 70° C (-40 to 158°F) |
| **Humidty** | Operating: 8 - 90% non-condensing    Non-operating: 5 - 95% non-condensing |

● Optimized   ◗ Compatible   ● Optimized low-power configuration   ◗ Compatible low-power configuration

| Model | 12" x 13" UIO MB | | Drive Bays | Cooling System | Power Supply | +5VSB | +12V | Gross Weight |
|---|---|---|---|---|---|---|---|---|
| | X7 | PD | | | | | | |
| SC515-280UB | ◗ | ● | 1 Fixed | 3 x 12000 rpm fans | 280W high-efficiency | 2 | 23/27 | 30 lbs |

FF: Full-height & full-length expansion slot    LP: Low-profile expansion slot
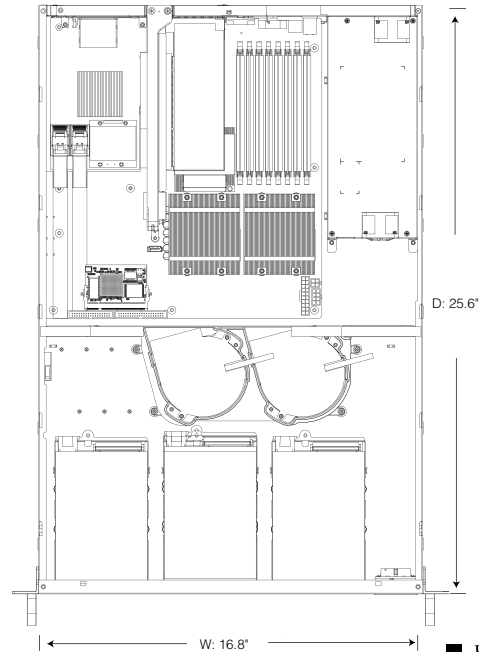
17

# SC812L-U

## UIO Chassis - Dual/Single Processors

### SC812L-U



Rear view

### Mechanical Drawing



D: 25.6"

W: 16.8"

■ Black ■ Beige

### Features

✔ Quad-Core Xeon®/Dual-Core Xeon®/Quad-Core Extreme/Core 2® Duo/Pentium® D processors supported

✔ 2 Full-height PCI/PCI-X/PCI-E & 1 low-profile PCI/PCI-X/PCI-E supported

✔ 520/280W high-efficiency power supply (88% and up*)

✔ 2 blowers with optimal fan speed control & air shroud

✔ Adjustable blower tray to optimize air flow with different motherboards

### Specifications

| | |
|---|---|
| **Form Factor** | 1U chassis support for max. motherboard size - 12" x 13" UIO MB |
| **CPU support** | Quad-Core Xeon®/Dual-Core Xeon®/Quad-Core Extreme/Core 2® Duo/Pentium® D processors supported |
| **Expansion** | 2 full-height & full-length expansion slots & 1 low-profile expansion slot |
| **Drive Bays** | 3 x 3.5" fixed drive bays |
| **Power Supply** | SC812L-520U: 520W high-efficiency power supply |
| | SC812L-280U: 280W high-efficiency power supply |
| **Cooling System** | 2 x 10cm blowers with optimal fan speed control |
| **Front Panel LEDs** | Power LED, hard drive activity LED, 2 network activity LEDs & (Universal Information) UID LED |
| **Front Panel Buttons** | Power on/off button, system reset button & UID button |
| **Dimensions** | W x H x D: 16.8" (426mm) x 1.7" (43mm) x 25.6" (650mm)    Packing: 22" x 8.1" x 31.7" |
| **Rail** | Extendable lengths of 29" to 35.25" |
| **Temperature** | Operating:   10 - 35° C (50° to 95°F)    Non-operating:   -40 - 70° C (-40° to 158° F) |
| **Humidity** | Operating:   8 - 90% non-condensing    Non-operating:   5 - 95% non-condensing |

● Optimized  ◖ Compatible  ● Optimized low-power configuration

| Model | UIO MB | | PCI I/O | Drives | Cooling Systems | Power Supply | +5VSB | +12V | Gross Weight |
|---|---|---|---|---|---|---|---|---|---|
| | X7 | PD | | | | | | | |
| **SC812L-520U** | ● | ● | 2 FF & 1 LP | 3 fixed | 2 x 5000rpm fans | 520W high-efficiency | 3 | 39 | 34 lbs |
| **SC812L-280U** | ● | ● | 2 FF & 1 LP | 3 fixed | 2 x 5000rpm fans | 280W high-efficiency | 2 | 23/27 | 34 lbs |

FF: Full-height & full-length expansion slot
LP: Low-profile expansion slot

* Our new generation power supply efficiency measured under typical operations
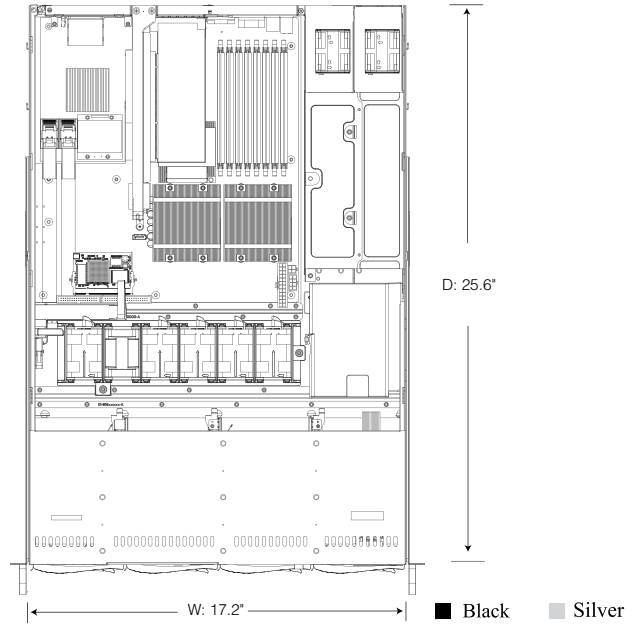
# SC815-U

## 1U 2 Full-Height & 1 Low-Profile Slots

### SC815TQ-U



Rear View (SC815TQ-560U)



Rear View (SC815TQ-R650U/R450U)

### Mechanical Drawing



D: 25.6"

W: 17.2"

■ Black   ■ Silver

### Features

✓ Quad-Core Xeon®/Dual-Core Xeon®/Quad-Core Extreme/Core 2® Duo/Pentium® D processors supported
✓ 2 Full-height PCI/PCI-X/PCI-E & 1 low-profile PCI/PCI-X/PCI-E supported
✓ 650W/450W redundant high-efficiency power supply/560W high efficiency power (88% and up*)
✓ 4/3 counter-rotating fans with optimal fan speed control & air shroud

### Specifications

| | |
|---|---|
| **Form Factor** | SC815TQ-560U: 1U chassis support for max. UIO motherboard size - 13.68" x 13" E-ATX |
| | SC815TQ-R650U/R450U: 1U chassis support for max. UIO motherboard size - 12" x 13" E-ATX |
| **CPU support** | Quad-Core Xeon®/Dual-Core Xeon®/Quad-Core Extreme/Core 2® Duo/Pentium® D processors supported |
| **Expansion** | 2 full-height & full-length expansion slots & 1 low-profile expansion slot |
| **Peripheral Drives** | 1 slim DVD-ROM drive (SC815TQ-560U optional) & optional slim FDD |
| **Drive Bays** | 4 x 3.5" hot-swap drive bays |
| **Power Supply** | SC815TQ-R650U: 650W (1+1) redundant high-efficiency power supply w/I$^2$C |
| | SC815TQ-R450U: 450W (1+1) redundant high-efficiency power supply w/I$^2$C |
| | SC815TQ-560U: 560W high-efficiency power supply |
| **Cooling System** | SC815TQ-R650U/560U: 4 x 4cm heavy duty counter-rotating fans with optimal fan speed control |
| | SC815TQ-R450U: 3 x 4cm heavy duty counter-rotating fans with optimal fan speed control |
| **Front Panel LEDs** | Power LED, hard drive activity LED, 2 network activity LEDs & Universal Information/UID LED |
| **Front Panel Buttons** | Power On/Off button, System Reset button & UID button |
| **Dimensions** | W x H x D: 17.2" (437mm) x 1.7" (43mm) x 25.6" (650mm)    Packing: 23.5" x 8.5" x 33.7" |
| **Rail** | Extendable lengths of 26" to 33.5" |
| **Temperature** | Operating 1 - 35°C (50 to 95°F)    non-operating  -40 - +70°C (-40  to 158°F) |
| **Humidity** | Operating 8 - 90% non-condensing    non-operating 5 - 95% non-condensing |

● Optimized  ◐ Compatible  ● Optimized low-power configuration

| Model | UIO MB | | PCI I/O | Drives | DVD-ROM | Cooling System | Power Supply | +5VSB | +12V | Gross Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| | X7 | PD | | | | | | | | |
| **SC815TQ-R650U** | ● | ● | 2 FF & 1 LP | 4 hot-swap | slim | 4 x 14000rpm fans | 650W redundant high-efficiency | 3 | 54 | 40 lbs |
| **SC815TQ-R450U** | ● | ● | 2 FF & 1 LP | 4 hot-swap | slim | 3 x 14000rpm fans | 450W redundant high-efficiency | 3 | 37 | 40 lbs |
| **SC815TQ-560U** | ● | ◐ | 2 FF & 1 LP | 4 hot-swap | slim | 4 x 14000rpm fans | 560W high-efficiency | 3 | 54 | 38 lbs |

| Optional Kit | Model Part # | Description |
|---|---|---|
| Peripheral Drives | FPD-PNSC-02 (01) | Panasonic 3.5" 1.44MB Floppy Drive (01 = Black) |

FF: Full-height & full-length expansion slot          LP: Low-profile expansion slot
* Our new generation power supply efficiency measures 88% or more under a typical loading operation.
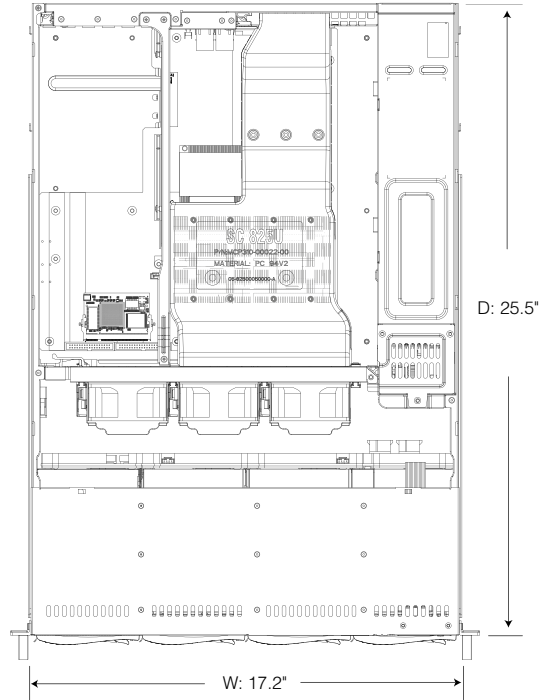
# SC825-U

## 2U 4 Full-Height & 3 Low-Profile

**SC825-U**

**Mechanical Drawing**



Rear view

D: 25.5"

W: 17.2"

■ Black

### Features

✔ 4 full-height PCI/PCI-X/PCI-E & 3 low-profile PCI/PCI-X/PCI-E expansion slots
✔ 700W redundant high-efficiency power (90% and up)
✔ Butterfly riser card
✔ 3 high-performance fans with airflow / thermal-control design

### Specifications

| | |
|---|---|
| **Form Factor** | 2U chassis support for max. UIO motherboard size - 13.68" x 13" |
| **CPU support** | Dual Xeon®, Pentium® D |
| **Expansion** | 4 full-height & full-length & 3 low-profile expansion slots |
| **Peripheral Drives** | 1 slim DVD-ROM drive, 1 COM, 2 USB 2.0 ports & 2 x 3.5" bays for optional floppy drive or fixed hard disk drives |
| **Drive Bays** | 8 x 3.5" hot-swap drive bays |
| **Power Supply** | 700W redundant high-efficiency power supply w/I²C & fan speed control |
| **Cooling System** | 3 x 8cm hot-swap cooling fans |
| **Front Panel LEDs** | Power LED, hard drive activity LED, 2 network activity LEDs, system overheat LED & power fail LED |
| **Front Panel Buttons** | Power on/off button & system reset button |
| **Dimensions** | W x H x D: 17.2" (437mm) x 3.5" (89mm) x 25.5" (648mm)     Packing: 23.8"x 9.8" x 32.9" |
| **Rail** | Extendable lengths of 28.25" to 33" |
| **Temperature** | Operating:  10 - 35°C (50° to 95°F)      Non-operating:   -40 - 70°C (-40  to 158°F) |
| **Humidity** | Operating:  8 - 90% non-condensing      Non-operating:   5 - 95% non-condensing |

● **Optimized**

| Model | UIO MB | | PCI  I/O | Drive | Cooling System | Power | +5VSB | +12V | Gross Weight |
|---|---|---|---|---|---|---|---|---|---|
| | X7 | PD | | | | | | | |
| **SC825TQ-R700U** | ● | ● | 4 FF & 3 LP | 8 hot-swap | 3 x 6300rpm fans | 700W redundant high-efficiency w/I²C | 4 | 57 | 52 lbs |

| Optional Kit | Model Part # | Description |
|---|---|---|
| Peripheral Drives | FPD-PNSC-02 (01) | Panasonic 3.5" 1.44MB Floppy Drive (01 = Black) |

FF: Full-height & full-length expansion slot          LP: Low-profile expansion slot
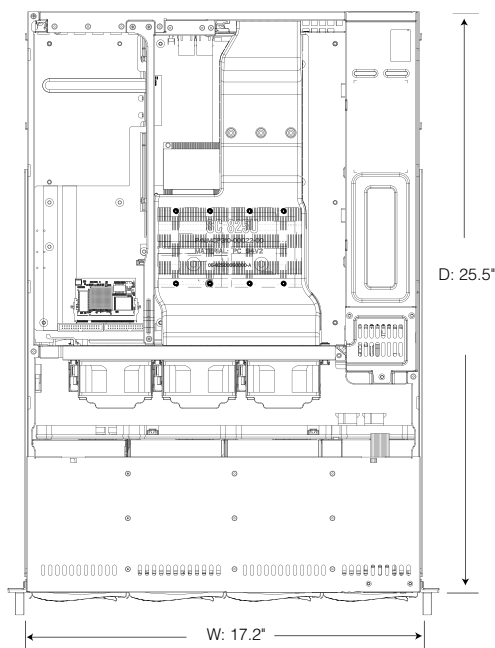
## 2U 4 Full-Height & 3 Low-Profile

**SC826-U**

**Mechanical Drawing**



Rear view

D: 25.5"

W: 17.2"

■ Black

### Features

✓ 4 full-height & 3 low-profile PCI/PCI-X/PCI-E expansion slots
✓ 800W redundant high-efficiency power (90% and up)
✓ Butterfly riser card
✓ 3 high-performance fans with airflow/thermal-control design

### Specifications

| | |
|---|---|
| **Form Factor** | 2U chassis support for max. motherboard size - 13.68" x 13" |
| **CPU support** | Dual Xeon®, Pentium® D |
| **Expansion** | 4 full-height & full-length & 3 low-profile expansion slots |
| **Drive Bays** | 12 x 3.5" hot-swap drive bays |
| **Power Supply** | 800W redundant high-efficiency power supply w/ I²C & fan speed control |
| **Cooling System** | 3 x 8cm hot-swap cooling fans |
| **Front Panel LEDs** | Power LED, hard drive activity LED, 2 network activity LEDs, system overheat LED & power fail LED |
| **Front Panel Buttons** | Power on/off button & system reset button |
| **Dimensions** | W x H x D: 17.2" (437mm) x 3.5" (89mm) x 25.5" (648mm)    Packing: 23.8"x 9.8" x 32.9" |
| **Rail** | Extendable lengths of 28.25" to 33" |
| **Temperature** | Operating:   10 - 35°C (50 to 95°F)        Non-operating:    -40 - 70°C (-40 to 158°F) |
| **Humidity** | Operating:   8 - 90% non-condensing      Non-operating:    5 - 95% non-condensing |

● Optimized

| Model | UIO MB | | PCI I/O | Drive | Cooling System | Power | +5VSB | +12V | Gross Weight |
|---|---|---|---|---|---|---|---|---|---|
| | X7 | PD | | | | | | | |
| **SC826TQ-R800U** | ● | ● | 4 FF & 3 LP | 12 hot-swap | 3 x 6300rpm fans | 800W redundant high-efficiency w/I²C | 4 | 66 | 52 lbs |
| **SC826E1/E2-R800U** | ● | ● | 4 FF & 3 LP | 12 hot-swap | 3 x 6300rpm fans | 800W redundant high-efficiency w/I²C | 4 | 66 | 52 lbs |

FF: Full-height & full-length expansion slot          LP: Low-profile expansion slot
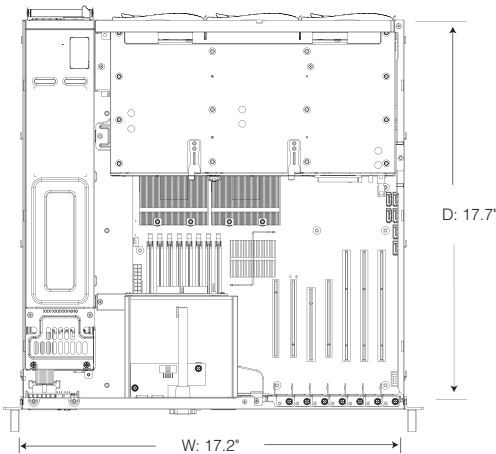
# SC823MTQ/-U

## 17.7" 2U Front Access

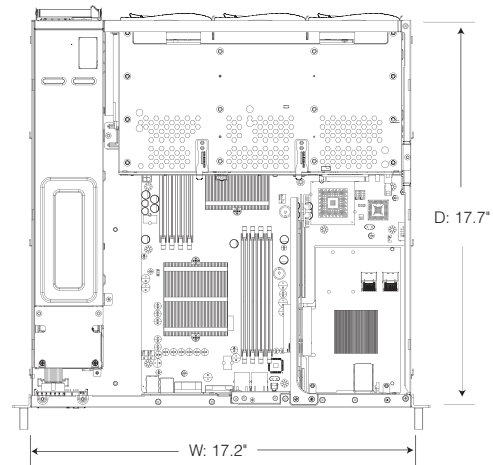### SC823MTQ-R700LPB



SC823MTQ-R700LPB



SC823MTQ-R700LPB rear view

D: 17.7"

W: 17.2"

### SC823MTQ-R700UB



SC823MTQ-R700UB



SC823MTQ-R700UB rear view

D: 17.7"

W: 17.2"

■ Black

### Features

✓ 700W redundant power supply with high efficiency power (90% and up)
✓ Redundant power supply with advanced airflow/thermal-control design

### Specifications

| | |
|---|---|
| **Form Factor** | 2U chassis support for max. motherboard size - 13.68" x 13" E-ATX |
| **CPU support** | Dual Xeon®, Pentium® D |
| **Expansion** | 7 low-profile expansion slots (SC823MTQ-R700LPB), 4 full-height & 3 low-profile (SC823MTQ-R700UB) |
| **Peripheral Drives** | 1 slim DVD-ROM drive, 1 COM  & 2 USB ports module |
| **Drive Bays** | SC823MTQ-R700LPB: 3 x 3.5" hot-swap SAS/SATA drive bays w/SES2 |
| | SC823MTQ-R700UB: 3 x 3.5" hot-swap SAS/SATA drive bays w/SES2 |
| **Power Supply** | 700W (1+1) redundant high-efficiency power supply w/I²C & fan speed control |
| **Cooling System** | 4 x 40cm high performance counter-rotating fans |
| **Front Panel LEDs** | Power LED, hard drive activity LED, 2 network activity LEDs, system overheat LED & power fail LED |
| **Front Panel Buttons** | Power On/Off button & System Reset button |
| **Dimensions** | W x H x D: 17.2"(437mm) x 3.5"(89mm) x 17.7" (450mm)      Packing: 23.8" x 10" x 29.5" |
| **Rail** | Extendable lengths of 19" to 33" |
| **Temperature** | Operating 10 - 35° C (50  to 95° F)      non-operating  -40 - +70° C (-40  to 158° F) |
| **Humidity** | Operating 8 - 90% non-condensing      non-operating 5 - 95% non-condensing |

● Optimized   ◐ Compatible

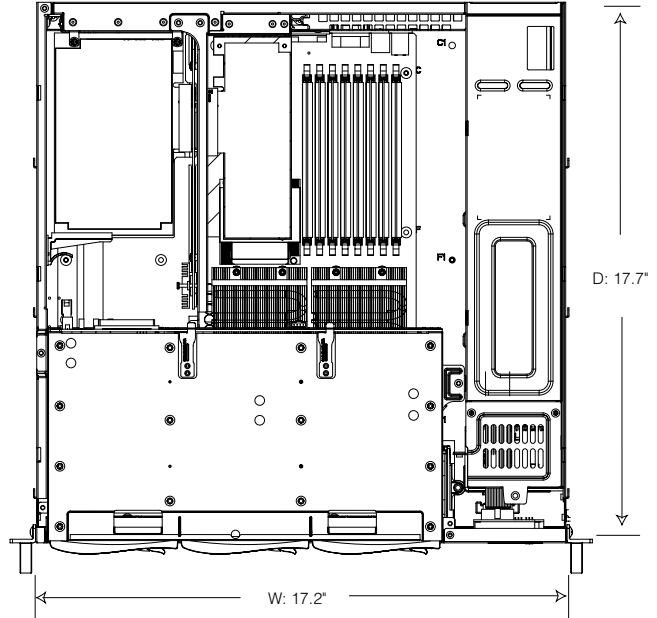| Model | MB (Max. 13.68" x 13") | | | | | PCI I/O | Drive | Power | +5V | +12V | Gross Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | X7 | X6 | PD+ | PD | P8 | | | | | | |
| **SC823MTQ-R700LPB** | ● | ● | ◐ | ◐ | ◐ | 7 LP | 3 SAS/SATA w/SES2 | 700W redundant high-efficiency | 4 | 57 | 35 lbs |
| **SC823MTQ-R700UB (OEM)** | ● | | | ◐ | | 4 FH & 3LP | 3 SAS/SATA w/SES2 | 700W redundant high-efficiency | 4 | 57 | 35 lbs |

# SC825MTQ-U

## 2U Compact 17.7" Depth

SC825MTQ-R700UB



SC825MTQ-R700UB rear view



D: 17.7"

W: 17.2"

### Features

■ Black

✓ 700W redundant power supply with high efficiency power (90% and up*)
✓ Redundant power supply with advanced airflow/thermal-control design

### Specifications

| | |
|---|---|
| **Form Factor** | 2U chassis support for max. motherboard size - 13.68" x 13" E-ATX |
| **CPU support** | Dual Xeon®, Pentium® D |
| **Expansion** | 7 low-profile expansion slots (SC825MTQ-R700LPB); 4 full-height & 3 low-profile (SC825MTQ-R700UB) |
| **Peripheral Drives** | 1 slim DVD-ROM drive, 1 COM  & 2 USB ports module |
| **Drive Bays** | SC825MTQ-R700UB: 3 x 3.5" hot-swap SAS/SATA drive bays w/SES2 |
| **Power Supply** | 700W (1+1) redundant high-efficiency power supply w/I²C & fan speed control |
| **Cooling System** | 4 x 40cm high performance counter-rotating fans |
| **Front Panel LEDs** | Power LED, hard drive activity LED, 2 network activity LEDs, system overheat LED & power fail LED |
| **Front Panel Buttons** | Power On/Off button & System Reset button |
| **Dimensions** | W x H x D: 17.2" (437mm) x 3.5" (89mm) x 17.7" (450mm)      Packing: 23.8" x 10" x 29.5" |
| **Rail** | Extendable lengths of 19" to 33" |
| **Temperature** | Operating 10 - 35° C (50  to 95° F)      non-operating  -40 - +70° C (-40  to 158° F) |
| **Humidity** | Operating 8 - 90% non-condensing     non-operating 5 - 95% non-condensing |

● Optimized   ◑ Compatible   ● Optimized low-power configuration   ◐ Compatible low-power configuration

| Model | MB (Max. 13.68" x 13") | | | | | PCI I/O | Drive | Power | +5VSB | +12V | Gross Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | X7 | X6 | PD+ | PD | P8 | | | | | | |
| SC825MTQ-R700LPB | ● | ● | ◑ | ◑ | ◑ | 7 LP | 3 SAS/SATA w/SES2 | 700W redundant high-efficiency | 4 | 57 | 35 lbs |
| SC825MTQ-R700UB | ● | | | ◑ | | 4 FH & 3LP | 3 SAS/SATA w/SES2 | 700W redundant high-efficiency | 4 | 57 | 35 lbs |

**SC835TQ-R800B**

**Mechanical Drawing**

## 100% cooling redundancy



Rear view



D: 25.5"

W: 17.2"
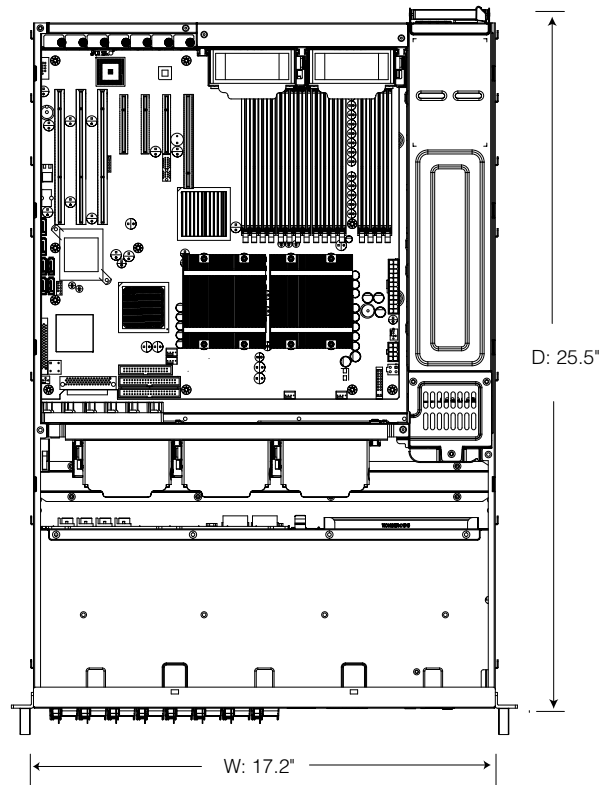
### Features

■ Black

✓ 100% cooling redundancy, supports up to 8 hot-swap SCA/SATA drives
✓ 800W redundant power supply & 5 hot-plug redundant cooling fans

### Specifications

| | |
|---|---|
| **Form Factor** | 3U chassis support for max. motherboard size - 13.68" x 13" |
| **CPU support** | Dual Xeon®, Pentium® D & Pentium® 4 |
| **Expansion** | 7 expansion slots |
| **Peripheral Drives** | 1 fixed hard drive tray or floppy drive option |
| **Drive Bays** | SC835TQ-R800: 8 x 3.5" hot-swap SAS/SATA drive bays with SGPIO & 2 x 5.25" drive bays |
| **Cooling System** | 5 x 8cm hot-swap cooling fans & air-shroud |
| **Front Panel LEDs** | Power LED, network activity LED, system overheat LED & power fail LED |
| **Front Panel Buttons** | Power on/off button, system reset button & mute button |
| **Power supply** | 800W (1+1) redundant power supply w/ I²C built-in & fan speed control |
| **Dimensions** | W x H x D: 17.2" (437mm) x 5.2" (132mm) x 25.5" (648mm)      Packing: 26.6" x 13" x 33.9" |
| **Rail** | Extendable lengths of 28" to 33.67" |
| **Temperature** | Operating:  10 - 35°C (50 to 95°F)        Non-operating: -40 - 70°C (-40 to 158° F) |
| **Humidity** | Operating:  8 - 90% non-condensing      Non-operating: 5 - 95% non-condensing |

● Optimized  ◑ Compatible  ● Optimized low-power configuration  ◑ Compatible low-power configuration

| Model | MB (Max. 13.68" x 13") | | | | | Drive | Cooling System | Power Supply | +5VSB | +12V | Gross Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | X7 | X6 | PD+ | PD | P8 | | | | | | |
| **SC835TQ-R800B** | ● | ● | ◑ | ◑ | ◑ | 8 SAS/SATA with SES2 | 5 x 8 fans | 800W redundant w/I²C | 4 | 66 | 75 lbs |

# SC745-R800/800　High-Efficiency Power Supply

**SC745S2/SC745TQ**　　　　　　　　　**Mechanical Drawing**

## 100% cooling redundancy



D: 25.5"

H: 17.2"
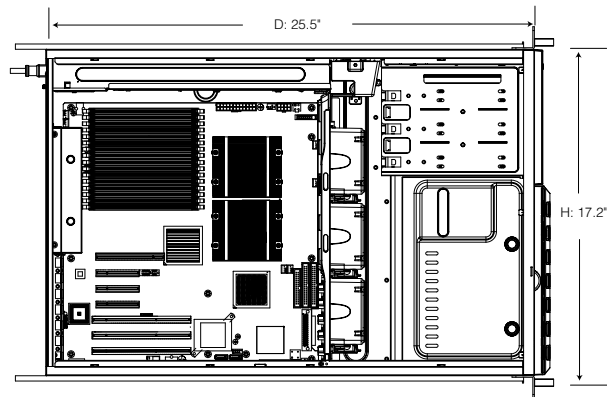
■ Black　■ Beige

### Features

- ✔ 100% cooling redundancy
- ✔ 800W redundant/800W power supply with high-efficiency power (85% and up)
- ✔ 8 hot-swap drive bays
- ✔ 90-degree rotatable module
- ✔ 7 tool-less expansion slots

### Specifications

| | |
|---|---|
| **Form Factor** | 4U chassis support for max. motherboard size - 13.68" x 13" |
| **CPU support** | Dual Xeon®, Pentium® D & Pentium® 4 |
| **Expansion** | 7 tool-less expansion slots |
| **Peripheral Drives** | 90-degree rotatable module: 2 USB ports, 2 x 5.25" drive bays & 1 floppy drive bay |
| **Drive Bays** | SC745S2-R800/800: 8 x 3.5" dual-channel (4 + 4) hot-swap SCA drive bays with SAF-TE compliance |
| | SC745TQ-R800/800: 8 x 3.5" hot-swap SAS/SATA drive bays with SES2 compliance |
| **Power supply** | SC745S2/SC745TQ-R800: 800W redundant high-efficiency power supply w/I$^2$C & fan speed control |
| | SC745S2/SC745TQ-800: 800W high-efficiency power supply w/I$^2$C & fan speed control |
| **Cooling System** | 3 x 8cm hot-swap cooling fans, 2 x 8cm exhaust fans & air shroud |
| **Front Panel Buttons** | Power on/off button & system reset button |
| **Front Panel LEDs** | Power LED, hard drive activity LED, 2 network activity LEDs, system overheat LED & power fail LED |
| **Dimensions** | W x H x D: 17.2" (434mm) x 7" (178mm) x 25.5" (648mm)　　Packing: 24.6" x 14" x 31.3" |
| **Rail (optional)** | Extendable length of 26" to 38.25" |
| **Temperature** | Operating:　10 - 35°C (50° to 95°F)　　Non-operating:　-40 - 70°C (-40° to 158°F) |
| **Humidity** | Operating:　8 - 90% non-condensing　　Non-operating:　5 - 95% non-condensing |

● Optimized　◖ Compatible　● Optimized low-power configuration　◖ Compatible low-power configuration

| Model | MB (Max. 13.68" x 13") | | | | | Drive Bays | Cooling System | Power Supply | +5VSB | +12V | Gross Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | X7 | X6 | PD+ | PD | P8 | | | | | | |
| **SC745S2-R800** | ● | ● | ◖ | ◖ | ◖ | 8 dual-channel (4+4) SCA w/SAF-TE | 5 x 5000rpm fans | 800W redundant high-efficiency | 4 | 66 | 62 lbs |
| **SC745TQ-R800** | ● | ● | ◖ | ◖ | ◖ | 8 SAS/SATA w/SES2 | 5 x 5000rpm fans | 800W redundant high-efficiency | 4 | 66 | 62 lbs |
| **SC745S2-800** | ● | ● | ◖ | ◖ | ◖ | 8 dual-channel (4+4) SCA w/SAF-TE | 5 x 5000rpm fans | 800W high-efficiency | 4 | 66 | 58 lbs |
| **SC745TQ-800** | ● | ● | ◖ | ◖ | ◖ | 8 SAS/SATA w/SES2 | 5 x 5000rpm fans | 800W high-efficiency | 4 | 66 | 58 lbs |

| Optional Kit | Model Part # | Description |
|---|---|---|
| **Mounting Rails** | CSE-PT26(B) | 4U Chassis Rail Kit (Includes Side Handles) (B = Black) |
| **Peripheral Drives** | FPD-PNSC-02 (01) | Panasonic 3.5" 1.44MB Floppy Drive (01 = Black) |

# UIO SAS RAID Cards

## Featuring Universal I/O SAS RAID Cards

The SAS RAID card delivers industry leading RAID performance at an unprecedented performance-to-price ratio. For companies running popular applications like web services of file/email servers, the UIO SAS RAID card opens the world of professional RAID performance and combines it with cost-effective SAS and SATA drive compatibility for the ultimate external storage solutions. Now customers can use one platform instead of two to support both drive types to satisfy all three application segments (reference data, transaction data, through put data).  With an optional battery backup unit and the cached data protection feature allows system builders to protect cached data even from the most catastrophic system failures.

### AOC-USAS-L8i

- LSI SAS 1068E SAS controller
- 8-port (internal) 3Gb/s per port
- Supports 122 HDD with IT mode (HBA mode)
- Power management support
- Supports 1.5 and 3.0 Gb/s SAS and SATA data transfer rates
- Port independent auto-negotiation
- Supports SSP, SMP, STP and SATA protocols
- OS Support: Windows 2000/XP/2003, RedHat Enterprise and SUSE Linux

### AOC-USAS-L4i(R)

- LSI SAS 1068E SAS controller
- 8-port (4 internal and 4 external), 3Gb/s per port
- RAID 0, 1, 10
- RAID 5 option with iButton (AOC-USAS-L4iR)
- MegaRAID Storage Manager Software (AOC-USAS-L4iR)
- Automatically negotiates PCI-E link widths
- Power management support
- 1.5 and 3.0 Gb/s SAS and SATA data transfer rates
- Port independent auto-negotiation
- SSP, SMP, STP and SATA protocols
- OS Support: Windows 2000/XP/2003, RedHat Enterprise and SUSE Linux

### AOC-USAS-H8iR

- LSI SAS 1078 RAID on chip
- 8-port (8 internal) 3Gb/s per port
- RAID 0, 1, 5, 6, 10, 50, 60
- Hardware RAID with onboard hardware IO processor
- 256MB 667MHz DDR2 on-card cache
- Advanced array configuration and management utilities
- Power management support
- 1.5 and 3.0 Gb/s SAS and SATA data transfer rates
- Port independent auto-negotiation
- SSP, SMP, STP and SATA protocols
- Optional battery backup unit for cached data protection
- OS Support: Windows 2000/XP/2003, RedHat Enterprise and SUSE Linux

# UIO SAS RAID Cards

### AOC-USAS-H4iR



- LSI SAS 1078 RAID on chip
- 240 physical devices cascaded with expander
- 4-port (internal) and 4-port (external) 3Gb/s per port
- RAID 0, 1, 5, 6, 10, 50, 60
- Hardware RAID with onboard hardware IO processor
- 256MB 667MHz DDR2 on-card cache
- Advanced array configuration and management utilities
- Power management support
- 1.5 and 3.0 Gb/s SAS and SATA data transfer rates
- Port independent auto-negotiation
- SSP, SMP, STP and SATA protocols
- Optional battery backup unit for cached data protection
- OS Support: Windows 2000/XP/2003, RedHat Enterprise and SUSE Linux

### AOC-USAS-S8i(R)



- High-performance RAID card with Intel® IOP348 processor
- 8-port (internal) 3Gb/s per port
- RAID 0, 1, 10
- RAID 5 & 6 with iButton (AOC-USAS-S8iR)
- Onboard hardware IO processor
- 256 or 128MB 533MHz DDR2 on-card cache
- Power management support
- 1.5 and 3.0 Gb/s SAS and SATA data transfer rates
- Port independent auto-negotiation
- SSP, SMP, STP and SATA protocols
- Optional Battery Backup Unit for cached data protection (AOC-USAS-S8iR)
- OS Support: Windows 2000/XP/2003, RedHat Enterprise and SUSE Linux

### AOC-USASLP-S8i(R)



- High-performance RAID card with Intel® IOP348 processor
- 8-port (internal) 3Gb/s per port
- RAID 0, 1, 10
- RAID 5 and 6 with iButton (AOC-USASLP-S8iR)
- Onboard hardware IO processor
- 256 or 128MB 533MHz DDR2 on-card cache
- Power management support
- 1.5 and 3.0 Gb/s SAS and SATA data transfer rates
- Port independent auto-negotiation
- SSP, SMP, STP and SATA protocols
- Optional battery backup unit for cached data protection (AOC-USASLP-S8iR)
- OS Support: Windows 2000/XP/2003, RedHat Enterprise and SUSE Linux

| Model | Controller/IOP | SAS Port | RAID | Onboard Cache |
|---|---|---|---|---|
| AOC-USAS-L8i | LSISAS 1068E | 8 ports, 3Gb/s per port<br>8 Internal | IT/HBA Mode | - |
| AOC-USAS-L4i | LSISAS 1068E | 8 ports, 3Gb/s per port<br>4 Internal, 4 External | RAID 0, 1, 10 | - |
| AOC-USAS-L4iR | LSISAS 1068E | 8 ports, 3Gb/s per port<br>4 Internal, 4 External | RAID 0, 1, 10<br>RAID 5 with iButton | - |
| AOC-USAS-H8iR | LSISAS 1078 | 8 ports, 3Gb/s per port<br>8 Internal | RAID 0, 1, 5, 6, 10, 50, 60<br>RAID 5 with iButton | 256MB DDR2 on-card cache w/<br>battery back-up option |
| AOC-USAS-H4iR | LSISAS 1078 | 8 ports, 3Gb/s per port<br>4 Internal, 4 External | RAID 0, 1, 5, 6, 10, 50, 60<br>RAID 5 with iButton | 256MB DDR2 on-card cache w/<br>battery back-up option |
| AOC-USAS-S4i | Intel IOP348 | 8 ports, 3Gb/s per port<br>4 Internal, 4 External | RAID 0, 1, 10 | 128MB DDR2 on-card cache |
| AOC-USAS-S4iR | Intel IOP348 | 8 ports, 3Gb/s per port<br>4 Internal, 4 External | RAID 0, 1, 5, 10 | 256MB DDR2 on-card cache w/<br>battery back-up option |
| AOC-USAS-S8i | Intel IOP348 | 8 ports, 3Gb/s per port<br>8 Internal | RAID 0, 1, 10 | 128MB DDR2 on-card cache |
| AOC-USAS-S8iR | Intel IOP348 | 8 ports, 3Gb/s per port<br>8 Internal | RAID 0, 1, 5, 10 | 256MB DDR2 on-card cache w/<br>battery back-up option |
| AOC-USASLP-S8i | Intel IOP348 | 8 ports, 3Gb/s per port<br>8 Internal | RAID 0, 1, 10 | 128MB DDR2 on-card cache |
| AOC-USASLP-S8iR | Intel IOP348 | 8 ports, 3Gb/s per port<br>8 Internal | RAID 0, 1, 5, 6, 10, 50, 60 | 256MB DDR2 on-card cache w/<br>battery back-up option |

# UIO Riser Cards

*R*ackmounted servers often need extra slots to expand the number of I/O cards that can be used in the system. UIO riser card operate as extensions to the onboard PCI slots, which allows this expansion by providing a method of mounting add-in cards parallel to the UIO board rather than the traditional vertical mount as in full-size systems. This design will help to achieve smaller foot print solutions for a cost-effective approach.

## Left Slot

| Model Part# | RSC-R1UU-UAX | RSC-R1UU-E16 | RSC-R1UU-UE8 | RSC-R1UU-2E8 | RSC-R1UU-2U | RSC-R2UU-UE8 |
|---|---|---|---|---|---|---|
| Form Factor | 1U | 1U | 1U | 1U | 1U | 2U |
| Fit Type | Universal slot | Universal slot | Universal slot | Universal slot | Universal slot | Universal slot |
| Output Type | 1 UIO, 1PCI-X | 1 PCI-E x16 | 1 UIO, 1 PCI-E x8 | 2 PCI-E x8 | 2 UIO | 1 UIO, 1 PCI-E x8 |
| Speed Type | PCI-E x8, PCI-X 133/100/66 MHz | PCI-E x16 | PCI-E x8 | PCI-E x8 | PCI-E x8 | PCI-E x8 |
| Compatible MB | PDSMU, X7DBU, H8SMU, H8DMU+, X7DWU, X7DCU | X7DGU, H8SMU, H8DMU+, X7DWU, X7DCU | PDSMU, X7DBU, H8SMU, H8DMU+, X7DWU, X7DCU | PDSMU, X7DBU, H8SMU, H8DMU+, X7DWU, X7DCU | PDSMU, X7DBU, X7DWU, X7DCU, H8SMU, H8DMU+ | PDSMU, X7DBU, X7DWU, X7DCU, H8SMU, H8DMU+ |
| Compatible Chassis | SC815TQ-R650U/ R450U/560U, SC812L-520U/280U | SC815TQ-R650U/ R450U/560U, SC818, SC812L-520U/280U | SC815TQ-R650U/ R450U/560U, SC812L-520U/280U | SC815TQ-R650U/ R450U/560U, SC812L-520U/280U | SC815TQ-R650U/ R450U/560U, SC812L-520U/280U | SC825TQ-R700U |

## Left Slot

| Model Part# | RSC-R2UU-A4E8 | RSC-R2UU-A2XE8 | RSC-R2UU-UA3E8 | RSC-R2UU-UAX | RSC-R2UU-A3XE8 | RSC-R2UU-2U |
|---|---|---|---|---|---|---|
| Form Factor | 2U | 2U | 2U | 2U | 2U | 2U |
| Fit Type | Universal slot | Universal slot | Universal slot | Universal slot | Universal slot | Universal slot |
| Output Type | 4 PCI-E x8 | 2x 133/100/66 MHz, 1x PCI-E x8 | 1 UIO, 3 PCI-E x8 | 1 UIO, 3 PCI-X | 1 PCI-E, 3 PCI-X | 2 UIO |
| Speed Type | PCI-E x8 | 133/100/66 MHz, PCI-E x8 | PCI-E x8 | PCI-E x8, PCI-X 133/100/66 MHz, | PCI-E x8, PCI-X 133/100/66 MHz, | PCI-E x8 |
| Compatible MB | PDSMU, X7DBU, X7DWU, X7DCU, H8SMU, H8DMU+ | PDSMU, X7DBU, X7DWU, X7DCU, H8SMU, H8DMU+ | PDSMU, X7DBU, X7DWU, X7DCU, H8SMU, H8DMU+ | PDSMU, X7DBU, X7DWU, X7DCU, H8SMU, H8DMU+ | PDSMU, X7DBU, X7DWU, X7DCU, H8SMU, H8DMU+ | PDSMU, X7DBU, X7DWU, X7DCU, H8SMU, H8DMU+ |
| Compatible Chassis | SC825TQ-R700U | SC825TQ-R700U | SC825TQ-R700U | SC825TQ-R700U | SC825TQ-R700U | SC825TQ-R700U |

## Right Slot

| Model Part# | RSC-R1UU-E8R+ | RSC-R1UU-XR | RSC-R1UU-E8R | RSC-R2UU-2E8R | RSC-R2UU-X2E4R |
|---|---|---|---|---|---|
| Form Factor | 1U | 1U | 1U | 2U | 2U |
| Fit Type | Universal slot | Universal slot | Universal slot | Universal slot | Universal slot |
| Output Type | 1 PCI-E x4 | 1 PCI-X | 1 PCI-E x8 | 2 PCI-E x8 | 1 PCI-X, 2 PCI-E x4 (in x8 slot) |
| Speed Type | PCI-E x4/8 | 133/100/66MHz | PCI-E x8 | PCI-E x8 | 133/100/66MHz, PCI-E x4 |
| Compatible MB | X7DWU, X7DCU, H8SMU, PDSMU | X7DBU, X7DGU | X7DBU, X7DGU | X7DWU, H8DMU+ | X7DBU |
| Compatible Chassis | SC815TQ-R650U/ R450U/560U, SC812L-520U/280U | SC815TQ-R650U/ R450U/560U, SC812L-520U/280U | SC815TQ-R650U/ R450U/560U, SC812L-520U/280U | SC825TQ-R700U | SC825TQ-R700U |

# *Ethernet Adapters*

## Faster Networks for Maximizing Computing Demands

**Supermicro's Ethernet Adapters** can help improve network throughput as well as application performance through features that help you maximize the use of your network bandwidth and offload CPU resources. Maximum performance means eliminating bottlenecks between the CPU, end-user applications, and network access. A solution characterized simply as end-to-end throughput computing, Ethernet Adapters interface with the Supermicro UIO motherboard through a PCI Express UIO slot. This maximizes the I/O bandwidth of the multiple ports Ethernet connectivity. The dedicated input/output connections of the PCI-E ensure priority performance on each port without bus-sharing.

### Features

- Business Financial
- Customer Management Solutions
- Decision Support Data Warehouse
- Enterprise Resource Planning
- Web Infrastructure

### Key Industries

- Aerospace
- Automotive
- Education
- Energy
- Financial Services
- Global Government
- Healthcare
- Life Sciences
- Manufacturing
- Media, Entertainment & Internet Services
- Retail

### UIO Cards

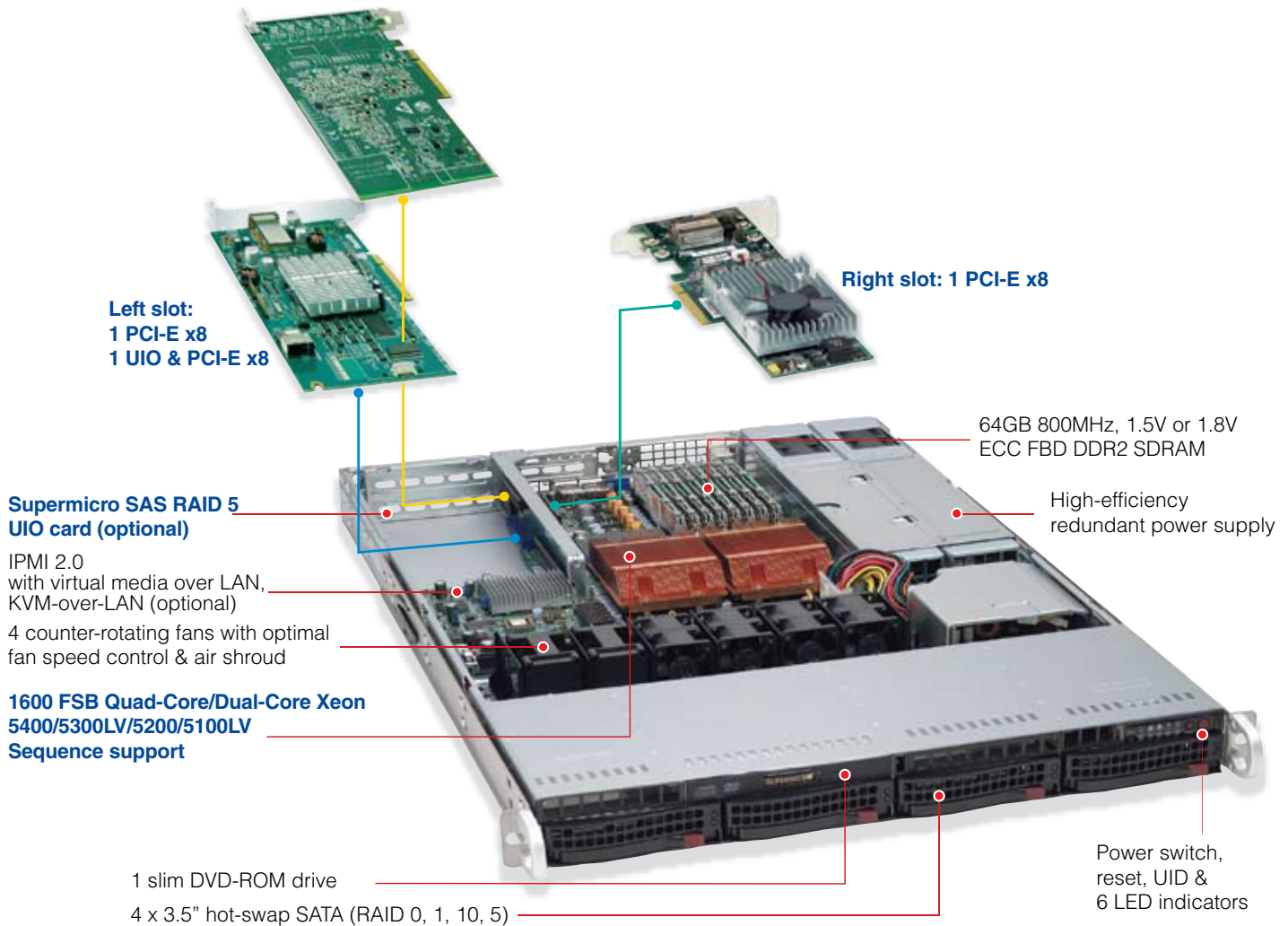| Model | AOC-UTG-i2 | | | | AOC-UG-i4 | | | |
|---|---|---|---|---|---|---|---|---|
| Description | UIO full-height dual-port 10Gb card | | | | UIO full-height quad-port 1Gb card | | | |
| Interface | PCI-E x8 (Gen 2 compatible) | | | | PCI-E x8 | | | |
| Port | 2 CX4 ports | | | | 4 RJ45 ports | | | |
| Speed | 10 Gigabit/port | | | | 1 Gigabit/port | | | |
| Compatible Motherboards | X7DWN+ X7DWU PDSMU | X7DWA-N X7DAL-E H8SMU | X7DBU X7DAL-E+ H8DMU+ | X7DBN X7DCU | X7DWN+ X7DWU PDSMU | X7DWA-N X7DAL-E H8SMU | X7DBU X7DAL-E+ H8DMU+ | X7DBN X7DCU |
| Compatible Servers | 6015W-UR 6015C-NTR 6015B-NT 5015M-Ni 2021M-UR+ 5025M-UR | 6015W-NTR 6015C-Ni 6015B-U 1011M-UR 6025W-NTR+ 7045A-WT | 6015W-Ni 6015B-UR 5015M-NT 1011M-Ni 6025W-UR 7045W-NTR+ | 6015C-UR 6015B-NTR 5015M-UR 1021M-UR+ 6025C-UR | 6015W-UR 6015C-NTR 6015B-NT 5015M-Ni 2021M-UR+ 5025M-UR | 6015W-NTR 6015C-Ni 6015B-U 1011M-UR 6025W-NTR+ 7045A-WT | 6015W-Ni 6015B-UR 5015M-NT 1011M-Ni 6025W-UR 7045W-NTR+ | 6015C-UR 6015B-NTR 5015M-UR 1021M-UR+ 6025C-UR |

### Standard Cards

| Model | AOC-STG-i2 | AOC-NXB-10GCX4 | AOC-NXB-10GXSR |
|---|---|---|---|
| Description | Standard low-profile dual-port 10Gb card | Standard low-profile 10Gb card | Standard low-profile 10Gb card |
| Interface | PCI-E x8 (Gen 2 compatible) | PCI-E x8 | PCI-E x8 |
| Port | 2 CX4 ports | 1 CX4 port | 1 XFP port |
| Speed | 10 Gigabit/port | 10 Gigabit/port | 10 Gigabit/port |
| Compatible Motherboards | All motherboards with a PCI-E x8 slot | All motherboards with a PCI-E x8 slot | All motherboards with a PCI-E x8 slot |
| Compatible Servers | All servers with low-profile or full-height expansion slot | All servers with low-profile or full-height expansion slot | All servers with low-profile or full-height expansion slot |

# The UIO (Universal I/O) Solutions

**More than 20 choices: SAS RAID, 10GbE, InfiniBand, UIO Cards . . .**
**Giving you the freedom to build exactly what you need!**

## 1U Up to 3 Add-on Cards
## High-Efficiency Power Supply



**Right slot: 1 PCI-E x8**

**Left slot:**
**1 PCI-E x8**
**1 UIO & PCI-E x8**

64GB 800MHz, 1.5V or 1.8V
ECC FBD DDR2 SDRAM

**Supermicro SAS RAID 5**
**UIO card (optional)**

High-efficiency
redundant power supply

IPMI 2.0
with virtual media over LAN,
KVM-over-LAN (optional)

4 counter-rotating fans with optimal
fan speed control & air shroud

**1600 FSB Quad-Core/Dual-Core Xeon**
**5400/5300LV/5200/5100LV**
**Sequence support**

1 slim DVD-ROM drive

4 x 3.5" hot-swap SATA (RAID 0, 1, 10, 5)

Power switch,
reset, UID &
6 LED indicators

### SUPERSERVER 6015W-URB
X7DWU Serverboard + SC815TQ-R650UB Chassis

The **SuperServer 6015W-URB** is a well-geared high-end enterprise server with the versatility of adapting to various I/O setup depending on customer's needs. Powered by Quad-Core/Dual-Core 1600FSB 45nm 5400/5300 series Xeon® processors, this flexible 1U server is also capable of supporting up to three add-on cards (including one UIO card) and four hot-swap SAS/SATA 3.5" hard drive bays. Supermicro's unique UIO architecture enables easy upgrades to multiple internal and external SAS options with RAID5 option, dual-port 10 Gigabit Ethernet and 4-port Gigabit Ethernet. To maximize uptime, the SuperServer 6015W-URB features redundant high-efficiency 650W power supplies and high-performance counter-rotating fans with optimal fan speed control, ideal for HPC environments.

# *The UIO (Universal I/O) Solutions*

## *2U*  *Up to 4 FH/FL & 2 LP Add-on Cards*
## *700W Redundant High-Efficiency Power Supply*

**Left slot:**
**1 Universal I/O (UIO) slot &**
**3 PCI-E x8 or 3 PCI-X 133 (optional)**

**Right slot: 2 PCI-E x8**

**1600 FSB Quad-Core/Dual-Core Xeon**
**5400/5300LV/5200/5100LV**
**Sequence support**

**Supermicro SAS RAID 5**
**UIO card (optional)**

6 SATA (3 Gbps);
RAID 0, 1, 5, 10

IPMI 2.0 with
virtual media over LAN &
KVM-over-LAN (optional)

3 heavy-duty fans
with optimal fan speed
control & air shroud

64GB 800MHz
1.5V or 1.8V ECC FBD
DDR2 SDRAM

1 slim DVD-ROM drive, 1 COM & 2 USB ports

8 x 3.5" hot-swap drive bays

Power switch, reset & 6 LED indicators
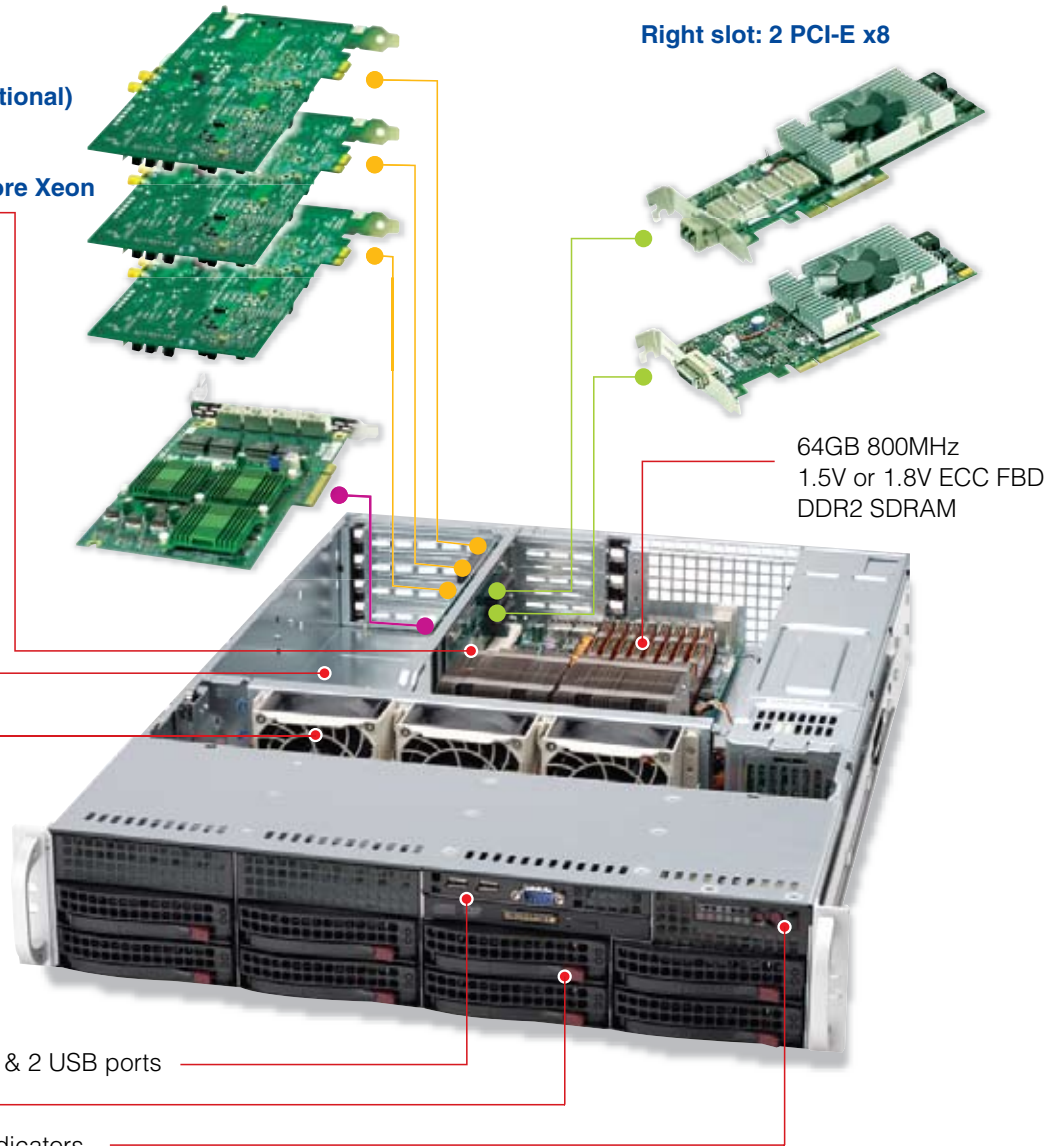
## SUPERSERVER 6025W-URB

X7DWU Serverboard + SC825TQ-R700UB Chassis

The **SuperServer 6025W-URB** is a high performance server optimized in a compact 2U formfactor. This expertly designed system leverages an exceptional thermal control architecture to provide abundant cooling power for two Quad-Core/Dual-Core 1600FSB 45nm 5400/5300 series Xeon® processors. The UIO feature provides the ultimate in storage and networking customization with up to 6 add-on cards. Maximizing on performance, reliability and cost-effectiveness, it features up to 64GB FBD memory support, redundant high efficiency 700W power supply, and up to eight hot-swappable SAS/SATA drives. Sophisticated management options such as IPMI 2.0 and SuperDoctor® III are included to ensure that the SuperServer 6025W-URB is simple to configure, deploy and manage on a day-to-day basis to guarantee continual performance and maximum data availability.