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FCC Statement: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer’s instruction manual, may cause harmful interference with radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

California Best Management Practices Regulations for Perchlorate Materials: This Perchlorate warning applies only to products containing CR (Manganese Dioxide) Lithium coin cells. "Perchlorate Material-special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate"

WARNING: Handling of lead solder materials used in this product may expose you to lead, a chemical known to the State of California to cause birth defects and other reproductive harm.

Manual Revision 2.0
Release Date: June 19, 2017

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Preface

This manual is written for professional system integrators and PC technicians. It provides information for the installation and use of the SC825M(B) chassis. Installation and maintenance should be performed by experienced technicians only.

Supermicro's SC825M(B) 2U chassis is a short-depth chassis with a unique and highly-optimized design. The chassis is equipped with a redundant 700W or 800W high-efficiency power supply for superb power savings. High-performance fans provide ample optimized cooling for the chassis.

This document lists compatible parts available when this document was published. Always refer to the our website for updates on supported parts and configurations.
Manual Organization

Chapter 1: Introduction

The first chapter provides a checklist of the main components included with this chassis. This chapter also includes contact information.

Chapter 2: Warning Statements for AC Systems

This chapter lists warnings, precautions, and system safety. You should thoroughly familiarize yourself with this chapter for a general overview of safety precautions that should be followed before installing and servicing this chassis.

Chapter 3: Chassis Components

Refer here for details on this chassis model including the fans, bays, airflow shields, and other components.

Chapter 4: System Interface

Refer to this chapter for details on the system interface, which includes the functions and information provided by the control panel on the chassis as well as other LEDs located throughout the system.

Chapter 5: Chassis Setup and Maintenance

Follow the procedures given in this chapter when setting up or maintaining your chassis.

Chapter 6: Rack Installation

Refer to this chapter for detailed information on chassis rack installation. You should follow the procedures given in this chapter when installing, removing or reconfiguring your chassis into a rack environment.
Appendix A: Power Supply Specifications

Appendix B: BPN-SAS-825MTQ Backplane Specifications

Appendix C: BPN-SAS3-825MTQ Backplane Specifications
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Appendix A SC825M Power Supply Specifications
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Chapter 1

Introduction

1-1 Overview

Supermicro's SC825M(B) 2U 17.7" short-depth design offers advanced air flow and thermal advantages for front-end servers, database applications, Internet, e-business, server clustering and other critical server applications. The SC825M(B) features support for a full range of dual or single processor based E.E. ATX 13.68" x13" motherboards and flexible interior with three hot-swap hard drive bays. It is also equipped with redundant 700W or 800W high-efficiency power supplies for superb power savings.

1-2 Shipping List

Part Numbers

Please visit the following link for the latest shipping lists and part numbers for your particular chassis model [http://www.supermicro.com/products/chassis/2U/?chs=825M](http://www.supermicro.com/products/chassis/2U/?chs=825M).

<table>
<thead>
<tr>
<th>Model</th>
<th>HDD</th>
<th>PCI Slots</th>
<th>Power Supply</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC825MTQ-R700LPB</td>
<td>3x SAS/ SATA</td>
<td>7 x LP</td>
<td>700W Redundant</td>
<td>Standard DVD and USB/COM port</td>
</tr>
<tr>
<td>SC825MTQ-R700UB</td>
<td>3x SAS/ SATA</td>
<td>4x FH 3x LP</td>
<td>700W Redundant</td>
<td>Standard DVD and USB/COM port</td>
</tr>
<tr>
<td>SC825MBTQC-R802LPB</td>
<td>3x SAS3 / SATA (Front)</td>
<td>7 x LP</td>
<td>800W Redundant</td>
<td>Optional DVD and USB/COM port (Includes dummy cover)</td>
</tr>
<tr>
<td>SC825MBTQC-R802WB</td>
<td>3x SAS3 / SATA (Front)</td>
<td>4x FH 3x LP</td>
<td>800W Redundant</td>
<td>Optional DVD and USB/COM port (Includes dummy cover)</td>
</tr>
</tbody>
</table>

Note: A complete list of safety warnings is provided on the Supermicro website at [http://www.supermicro.com/about/policies/safety_information.cfm](http://www.supermicro.com/about/policies/safety_information.cfm)
1-3 Contacting Supermicro

Headquarters
Address: Super Micro Computer, Inc.
980 Rock Ave.
San Jose, CA  95131 U.S.A.
Tel: +1 (408) 503-8000
Fax: +1 (408) 503-8008
Email: marketing@supermicro.com (General Information)
support@supermicro.com (Technical Support)
Website: www.supermicro.com

Europe
Address: Super Micro Computer B.V.
Het Sterrenbeeld 28, 5215 ML
's-Hertogenbosch, The Netherlands
Tel: +31 (0) 73-6400390
Fax: +31 (0) 73-6416525
Email: sales@supermicro.nl (General Information)
support@supermicro.nl (Technical Support)
rma@supermicro.nl (Customer Support)
Website: www.supermicro.nl

Asia-Pacific
Address: Super Micro Computer, Inc.
3F, No. 150, Jian 1st Rd.
Zhonghe Dist., New Taipei City 235
Taiwan (R.O.C)
Tel: +886-(2) 8226-3990
Fax: +886-(2) 8226-3992
Email: support@supermicro.com.tw
Website: www.supermicro.com.tw
1-4 Returning Merchandise for Service

A receipt or copy of your invoice marked with the date of purchase is required before any warranty service will be rendered. You can obtain service by calling your vendor for a Returned Merchandise Authorization (RMA) number. When returning to the manufacturer, the RMA number should be prominently displayed on the outside of the shipping carton, and mailed prepaid or hand-carried. Shipping and handling charges will be applied for all orders that must be mailed when service is complete.

For faster service, RMA authorizations may be requested online (http://www.supermicro.com/support/rma/).

Whenever possible, repack the chassis in the original Supermicro carton, using the original packaging material. If these are no longer available, be sure to pack the chassis securely, using packaging material to surround the chassis so that it does not shift within the carton and become damaged during shipping.

This warranty only covers normal consumer use and does not cover damages incurred in shipping or from failure due to the alteration, misuse, abuse or improper maintenance of products.

During the warranty period, contact your distributor first for any product problems.
Chapter 2

Standardized Warning Statements for AC Systems

2-1 About Standardized Warning Statements

The following statements are industry standard warnings, provided to warn the user of situations which have the potential for bodily injury. Should you have questions or experience difficulty, contact Supermicro's Technical Support department for assistance. Only certified technicians should attempt to install or configure components.

Read this appendix in its entirety before installing or configuring components in the Supermicro chassis.

These warnings may also be found on our web site at http://www.supermicro.com/about/policies/safety_information.cfm.

Warning Definition

Warning!

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.

警告の定義
この警告サインは危険を意味します。人身事故につながる可能性がありますので、いずれの機器でも動作させる前に、電気回路に含まれる危険性に注意して、標準的な事故防止策に精通して下さい。

此警告符号代表危险。
您正处于可能受到严重伤害的工作环境中。在您使用设备开始工作之前，必须充分意识到触电的危险，并熟练掌握防止事故发生的标准工作程序。请根据每项警告结尾的声明号码找到此设备的安全性警告说明的翻译文本。

此警告符号代表危险。
您正处於可能身体可能會受損傷的工作環境中。在您使用任何設備之前，請注意觸電的危險，並且要熟悉預防事故發生的標準工作程序。請依照每一注意事項後的號碼找到相關的翻譯說明內容。
Warnung

WICHTIGE SICHERHEITSHINWEISE


BEWAHREN SIE DIESE HINWEISE GUT AUF.

INSTRUCCIONES IMPORTANTES DE SEGURIDAD

Este símbolo de aviso indica peligro. Existe riesgo para su integridad física. Antes de manipular cualquier equipo, considere los riesgos de la corriente eléctrica y familiarícese con los procedimientos estándar de prevención de accidentes. Al final de cada advertencia encontrará el número que le ayudará a encontrar el texto traducido en el apartado de traducciones que acompaña a este dispositivo.

GUARDE ESTAS INSTRUCCIONES.

IMPORTANTES INFORMATIONS DE SÉCURITÉ

Ce symbole d’avertissement indique un danger. Vous vous trouvez dans une situation pouvant entraîner des blessures ou des dommages corporels. Avant de travailler sur un équipement, soyez conscient des dangers liés aux circuits électriques et familiarisez-vous avec les procédures couramment utilisées pour éviter les accidents. Pour prendre connaissance des traductions des avertissements figurant dans les consignes de sécurité traduites qui accompagnent cet appareil, référez-vous au numéro de l'instruction situé à la fin de chaque avertissement.

CONSERVEZ CES INFORMATIONS.
안전을 위한 주의사항

경고!

이 경고 기호는 위험이 있음을 알려 줍니다. 작업자의 신체에 부상을 야기 할 수 있는 상태에 있게 됩니다. 모든 장비에 대한 작업을 수행하기 전에 전기회로와 관련된 위험요소들을 확인하시고 사전에 사고를 방지할 수 있도록 표준 작업절차를 준수해 주시기 바랍니다.

해당 번역문을 찾기 위해 각 경고의 마지막 부분에 제공된 경고문 번호를 참조하십시오

BELANGRIJKE VEILIGHEIDSINSTRUCTIES

Dit waarschuwings symbool betekent gevaar. U verkeert in een situatie die lichamelijk letsel kan veroorzaken. Voordat u aan enige apparatuur gaat werken, dient u zich bewust te zijn van de bij een elektrische installatie betrokken risico's en dient u op de hoogte te zijn van de standaard procedures om ongelukken te voorkomen. Gebruik de nummers aan het eind van elke waarschuwing om deze te herleiden naar de desbetreffende locatie.

BEWAAR DEZE INSTRUCTIES
Installation Instructions

⚠️ Warning!

Read the installation instructions before connecting the system to the power source.

¡Advertencia!

Lea las instrucciones de instalación antes de conectar el sistema a la red de alimentación.

Waarschuwing

Raadpleeg de installatie-instructies voordat u het systeem op de voedingsbron aansluit.

Waarschuwing

Raadpleeg de installatie-instructies voordat u het systeem op de voedingsbron aansluit.
## Circuit Breaker

**Warning!**

This product relies on the building's installation for short-circuit (overcurrent) protection. Ensure that the protective device is rated not greater than: 250 V, 20 A.

사용 epithet

この製品は、短絡（過電流）保護装置がある建物での設置を前提としています。

保護装置の定格が250 V、20 Aを超えないことを確認下さい。

警告

此产品的短路(过载电流)保护由建筑物的供电系统提供，确保短路保护设备的额定电流不大于250V, 20A。

¡Advertencia!

Este equipo utiliza el sistema de protección contra cortocircuitos (o sobrecorrientes) del edificio. Asegúrese de que el dispositivo de protección no sea superior a: 250 V, 20 A.

Attention

Pour ce qui est de la protection contre les courts-circuits (surtension), ce produit dépend de l'installation électrique du local. Vérifiez que le courant nominal du dispositif de protection n'est pas supérieur à :250 V, 20 A.
Power Disconnection Warning

Warning!

The system must be disconnected from all sources of power and the power cord removed from the power supply module(s) before accessing the chassis interior to install or remove system components.

경고!

이 제품은 전원의 단락(과전류)방지에 대해서 전적으로 건물의 관련 설비에 의존합니다. 보호장치의 정격이 반드시 250V(볼트), 20A(암페어)를 초과하지 않도록 해야 합니다.

Waarschuwing

Dit product is afhankelijk van de kortsluitbeveiliging (overspanning) van uw electrische installatie. Controleer of het beveiligde apparaat niet groter gedimensioneerd is dan 220V, 20A.

Warning

The system must be disconnected from all sources of power and the power cord removed from the power supply module(s) before accessing the chassis interior to install or remove system components.

警告

在你打开机箱并安装或移除内部器件前，必须将系统完全断电，并移除电源线。

警告

在你打开机箱并安装或移除内部器件前，必须将系统完全断电，并移除电源线。

Warnung

Das System muss von allen Quellen der Energie und vom Netzanschlusskabel getrennt sein, das von den Spg.Versorgungsteilmodulen entfernt wird, bevor es auf den Chassisinnenraum zurückgreift, um Systemsbestandteile anzubringen oder zu entfernen.
¡Advertencia!
El sistema debe ser disconnected de todas las fuentes de energía y del cable eléctrico quitado de los módulos de fuente de alimentación antes de tener acceso el interior del chasis para instalar o para quitar componentes de sistema.

Attention
Le système doit être débranché de toutes les sources de puissance ainsi que de son cordon d'alimentation secteur avant d'accéder à l'intérieur du chassis pour installer ou enlever des composants de système.

¡Atención!
El sistema debe ser disconnected de todas las fuentes de energía y del cable eléctrico quitado de los módulos de fuente de alimentación antes de tener acceso el interior del chasis para instalar o para quitar componentes de sistema.

¡Atenção!
O sistema deve ser desconectado de todas as fontes de energia e do cabo elétrico removido dos módulos de fonte de alimentação antes de ter acesso ao interior do chassis para instalar ou para retirar componentes do sistema.

¡Advertencia!
El sistema debe ser disconnecte de todas las fuentes de energía y del cable eléctrico quitado de los módulos de fuente de alimentación antes de tener acceso el interior del chasis para instalar o para quitar componentes de sistema.

¡Advertencia!
El sistema debe ser disconnecte de todas las fuentes de energía y del cable eléctrico quitado de los módulos de fuente de alimentación antes de tener acceso el interior del chasis para instalar o para quitar componentes de sistema.

¡Advertencia!
El sistema debe ser disconnecte de todas las fuentes de energía y del cable eléctrico quitado de los módulos de fuente de alimentación antes de tener acceso el interior del chasis para instalar o para quitar componentes de sistema.
Equipment Installation

Warning!
Only trained and qualified personnel should be allowed to install, replace, or service this equipment.

機器の設置
トレーニングを受け認定された人だけがこの装置の設置、交換、またはサービスを許可されています。

警告
只有经过培训且具有资格的人员才能进行此设备的安装、更换和维修。

警告
只有经过受訓且具資格人員才可安裝、更換與維修此設備。

Warnung
Das Installieren, Ersetzen oder Bedienen dieser Ausrüstung sollte nur geschultem, qualifiziertem Personal gestattet werden.

¡Advertencia!
Solamente el personal calificado debe instalar, reemplazar o utilizar este equipo.

Attention
Il est vivement recommandé de confier l'installation, le remplacement et la maintenance de ces équipements à des personnels qualifiés et expérimentés.

אזהרה!
ذلك מוסמך בלבד רשאי להתקין, להחליפו או לה랄ו או להשתרר ענבר הצוואר.

경고!
훈련을 받고 공인된 기술자만이 이 장비의 설치, 교체 또는 서비스를 수행할 수 있습니다.
Warning!
This unit is intended for installation in restricted access areas. A restricted access area can be accessed only through the use of a special tool, lock and key, or other means of security. (This warning does not apply to workstations).

Restricted Area

Warning!
This unit is intended for installation in restricted access areas. A restricted access area can be accessed only through the use of a special tool, lock and key, or other means of security. (This warning does not apply to workstations).

警告
此部件应安装在限制进出的场所，限制进出的场所指只能通过使用特殊工具、锁和钥匙或其它安全手段进出的场所。

警告
此裝置僅限安裝於進出管制區域，進出管制區域係指僅能以特殊工具、鎖頭及鑰匙或其他安全方式才能進入的區域。

Warnung
Diese Einheit ist zur Installation in Bereichen mit beschränktem Zutritt vorgesehen. Der Zutritt zu derartigen Bereichen ist nur mit einem Spezialwerkzeug, Schloss und Schlüssel oder einer sonstigen Sicherheitsvorkehrung möglich.

¡Advertencia!
Esta unidad ha sido diseñada para instalación en áreas de acceso restringido. Sólo puede obtenerse acceso a una de estas áreas mediante la utilización de una herramienta especial, cerradura con llave u otro medio de seguridad.

Attention
Cet appareil doit être installée dans des zones d'accès réservés. L'accès à une zone d'accès réservé n'est possible qu'en utilisant un outil spécial, un mécanisme de verrouillage et une clé, ou tout autre moyen de sécurité.
Battery Handling

Warning!

There is the danger of explosion if the battery is replaced incorrectly. Replace the battery only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

電池の取り扱い

電池交換が正しく行われなかった場合、破裂の危険性があります。交換する電池はメーカーが推奨する型、または同等のものを使用下さい。使用済電池は製造元の指示に従って処分して下さい。

警告

电池更换不当会有爆炸危险。请只使用同类电池或制造商推荐的功能相当的电池更换原有电池。请按制造商的说明处理废旧电池。

警告

電池更換不當會有爆炸危險。請使用製造商建議之相同或功能相當的電池更換原有電池。請按照製造商的說明指示處理廢棄舊電池。
Chapter 2: Warning Statements for AC Systems

Warnung

Attention
Danger d'explosion si la pile n'est pas remplacée correctement. Ne la remplacer que par une pile de type semblable ou équivalent, recommandée par le fabricant. Jeter les piles usagées conformément aux instructions du fabricant.

¡Advertencia!
Existe peligro de explosión si la batería se reemplaza de manera incorrecta. Reemplazar la batería exclusivamente con el mismo tipo o el equivalente recomendado por el fabricante. Desechar las baterías gastadas según las instrucciones del fabricante.

경고!
배터리가 올바르게 교체되지 않으면 폭발의 위험이 있습니다. 기존 배터리와 동일하거나 제조자에서 권장하는 동등한 종류의 배터리로만 교체해야 합니다. 제조자의 안내에 따라 사용된 배터리를 처리하여 주십시오.

Waarschuwing
Er is ontploffingsgevaar indien de batterij verkeerd vervangen wordt. Vervang de batterij slechts met hetzelfde of een equivalent type die door de fabrikant aanbevolen wordt. Gebruikte batterijen dienen overeenkomstig fabrieksvoorschriften afgevoerd te worden.
Redundant Power Supplies

Warning!
This unit might have more than one power supply connection. All connections must be removed to de-energize the unit.

警告
此部件连接的电源可能不止一个，必须将所有电源断开才能停止给该部件供电。此装置连接的电源可能不只一个，必须切断所有电源才能停止对该装置的供电。

Warnung
Dieses Gerät kann mehr als eine Stromzufuhr haben. Um sicherzustellen, dass der Einheit kein Strom zugeführt wird, müssen alle Verbindungen entfernt werden.

¡Advertencia!
Puede que esta unidad tenga más de una conexión para fuentes de alimentación. Para cortar por completo el suministro de energía, deben desconectarse todas las conexiones.

Attention
Cette unité peut avoir plus d'une connexion d'alimentation. Pour supprimer toute tension et tout courant électrique de l'unité, toutes les connexions d'alimentation doivent être débranchemées.

أم كيمي يحرر مسفك أخر

ארכי
ל.sendFile יש יחר מבית אחר של ספק. יש להפר את כל ההיבורים על מנה לרדק.
את ההיתדה.
Warning Statements for AC Systems

Backplane Voltage

Warning!

Hazardous voltage or energy is present on the backplane when the system is operating. Use caution when servicing.

경고!

이 장치에는 한 개 이상의 전원 공급 단자가 연결되어 있을 수 있습니다. 이 장치에 전원을 차단하기 위해서는 모든 연결 단자를 제거해야만 합니다.

Waarschuwing

Deze eenheid kan meer dan één stroomtoevoeraansluiting bevatten. Alle aansluitingen dienen verwijderd te worden om het apparaat stroomloos te maken.

¡Advertencia!

Cuando el sistema está en funcionamiento, el voltaje del plano trasero es peligroso. Tenga cuidado cuando lo revise.

Attention

Lorsque le système est en fonctionnement, des tensions électriques circulent sur le fond de panier. Prendre des précautions lors de la maintenance.
Comply with Local and National Electrical Codes

**Warning!**

Installation of the equipment must comply with local and national electrical codes.

地方および国の電気規格に準拠
機器の取り付けはその地方および国の電気規格に準拠する必要があります。

警告
设备安装必须符合本地与本国电气法规。

Warning

Die Installation der Geräte muss den Sicherheitsstandards entsprechen.

¡Advertencia!
La instalacion del equipo debe cumplir con las normas de electricidad locales y nacionales.
Attention
L’équipement doit être installé conformément aux normes électriques nationales et locales.

製品の廃棄
この製品を廃棄処分する場合、国の関係する全ての法律・条例に従い処理する必要があります。

警告
本产品的废弃处理应根据所有国家的法律和规章进行。

Warning
Ultimate disposal of this product should be handled according to all national laws and regulations.

製品の廃棄
この製品を廃棄処分する場合、国の関係する全ての法律・条例に従い処理する必要があります。

警告
本产品的废弃处理应根据所有国家的法律和规章进行。

Warnung
Die Entsorgung dieses Produkts sollte gemäß allen Bestimmungen und Gesetzen des Landes erfolgen.
Attention

La mise au rebut ou le recyclage de ce produit sont généralement soumis à des lois et/ou directives de respect de l'environnement. Renseignez-vous auprès de l'organisme compétent.

Hot Swap Fan Warning

Warning!

Hazardous moving parts. Keep away from moving fan blades. The fans might still be turning when you remove the fan assembly from the chassis. Keep fingers, screwdrivers, and other objects away from the openings in the fan assembly’s housing.
Chapter 2: Warning Statements for AC Systems

Warnung

¡Advertencia!
Riesgo de piezas móviles. Mantener alejado de las aspas del ventilador. Los ventiladores podran dar vuelta cuando usted quite ell montaje del ventilador del chasis. Mandtenga los dedos, los destornilladores y todos los objetos lejos de las aberturas del ventilador

Attention
Pieces mobiles dangereuses. Se tenir a l'ecart des lames du ventilateur Il est possible que les ventilateurs soient toujours en rotation lorsque vous retirerez le bloc ventilateur du châssis. Prenez garde à ce que doigts, tournevis et autres objets soient éloignés du logement du bloc ventilateur.

경고!
움직이는 위험한 부품. 회전하는 송풍 날개에 접근하지 마세요. 섀시로부터 팬 조립품을 제거할 때 팬은 여전히 회전하고 있을 수 있습니다. 팬 조립품 외관의 열려있는 부분들로부터 손가락 및 스크류드라이버, 다른 물체들이 가까이 하지 않도록 배치해 주십시오.

Waarschuwing
Gevaarlijk bewegende onderdelen. Houd voldoende afstand tot de bewegende ventilatorbladen. Het is mogelijk dat de ventilator nog draait tijdens het verwijderen van het ventilatorsamenstel uit het chassis. Houd uw vingers, schroevendraaiers en eventuele andere voorwerpen uit de buurt van de openingen in de ventilatorbehuizing.
Power Cable and AC Adapter

Warning!

When installing the product, use the provided or designated connection cables, power cables and AC adaptors. Using any other cables and adaptors could cause a malfunction or a fire. Electrical Appliance and Material Safety Law prohibits the use of UL or CSA-certified cables (that have UL/CSA shown on the code) for any other electrical devices than products designated by Supermicro only.

电源コードとACアダプター

製品を設置する場合、提供または指定された接続ケーブル、電源コードとACアダプターを使用下さい。他のケーブルやアダプタを使用すると故障や火災の原因になることがあります。電気用品安全法は、ULまたはCSA認定のケーブル(UL/CSEマークがコードに表記)をSupermicroが指定する製品以外に使用することを禁止しています。

¡Advertencia!

Al instalar el producto, utilice los cables de conexión previstos o designados, los cables y adaptadores de CA. La utilización de otros cables y adaptadores podría ocasionar un mal funcionamiento o un incendio. Aparatos Eléctricos y la Ley de Seguridad del Material prohíbe el uso de UL o CSA cables certificados que tienen UL o CSA se muestra en el código de otros dispositivos eléctricos que los productos designados por Supermicro solamente.
Attention

Lors de l’installation du produit, utilisez les cables de connection fournis ou désigné.
L’utilisation d’autres cables et adaptateurs peut provoquer un dysfonctionnement ou un incendie. Appareils électroménagers et de loi sur la sécurité Matériel interdit l’utilisation de UL ou CSA câbles certifiés qui ont UL ou CSA indiqué sur le code pour tous les autres appareils électriques que les produits désignés par Supermicro seulement.

توصية

عند تركيب الجهاز يجب استخدام كابلات التوصيل، والكابلات الكهربائية والمحولات المتدرجة التي. أن استخدام أي كابلات ومحولات أخرى يتسبب في حدوث حريق.

تم توفيرها تلك مع المنتج لأجهزة الكهربائية ومعتمدة من قبل Supermicro لأي أجهزة كهربائية أخرى غير المنتجات المعينة من قبل (UL/CSA التي تحمل علامة)

경고!

제품을 설치할 때에는 제공되거나 지정된 연결케이블과 전원케이블, AC어댑터를 사용해야 합니다. 그 밖의 다른 케이블이나 어댑터들은 고장 또는 화재의 원인이 될 수 있습니다. 전기용품안전법 (Electrical Appliance and Material Safety Law)은 슈퍼마이크로에서 지정한 제품들 외에는 그 밖의 다른 전기 장치들을 위한 UL또는 CSA에서 인증한 케이블(전선 위에 UL/CSA가 표시)들의 사용을 금지합니다.

Waarschuwing

Bij het installeren van het product, gebruik de meegeleverde of aangewezen kabels, stroomkabels en adapters. Het gebruik van andere kabels en adapters kan leiden tot een storing of een brand. Elektrisch apparaat en veiligheidsinformatiebladen wet verbiedt het gebruik van UL of CSA gecertificeerde kabels die UL of CSA die op de code voor andere elektrische apparaten dan de producten die door Supermicro alleen.
Notes
Chapter 3

Chassis Components

3-1 Overview

This chapter describes the most common components included with your chassis. Some components listed may not be included or compatible with your particular chassis model. For more information, see the installation instructions detailed later in this manual.

3-2 Components

Drives

The SC825M(B) chassis includes three hot-swap hard drive bays (with front access) and, depending upon the model, may include one slim DVD-ROM and one slim COM port/USB tray.

Motherboard

The SC825M(B) supports motherboard sizes of up to 13.68" x 13" EE-ATX (for LP chassis) or up to 12.8" x 13.4" (without optional rear 2.5" drive kits installed) or 12.3" x 13.4" (with optional rear 2.5" installed) for WIO chassis.

Backplane

Each SC825M(B) chassis comes with a backplane that supports SAS(3)/SATA hard disk drives. For details, see the appendix at the end of this manual and our website, http://www.supermicro.com.

Power Supply

Each SC825M(B) chassis includes two high-efficiency power supplies rated at 700 or 800 watts. The power supplies are redundant and hot-swappable without tools.
Front Interface

The front of the chassis offers a control panel with power controls and LED status indicators. Some specific chassis models (SC825MTQ-R700LPB/UB) include two USB ports and a serial port (COM port).

Fans

The SC825M(B) chassis comes with four 1U system fans with room to add a fifth fan. They are powered by 4-pin connectors from the motherboard. The fan holder can be moved by using the adjustable fan pins.

Air Shroud

Air shrouds channel air directly to where cooling is needed. Always use the air shroud included with your chassis.

Mounting Rails

The SC825M(B) can be placed in a rack for secure use.

3-3 Where to get Replacement Components

Though not frequently, you may need replacement parts for your system. To ensure the highest level of professional service and technical support, we strongly recommend purchasing exclusively from our Supermicro Authorized Distributors/System Integrators/Resellers. A list of Supermicro Authorized Distributors/System Integrators/Reseller can be found at: http://www.supermicro.com. Click the Where to Buy link.
Chapter 4

System Interface

4-1 Overview

This chassis includes LEDs on the control panel and drive carriers that indicate the activity and health of specific components.

Figure 4-1. SC825MTQ-R700LPB/UB

Figure 4-2. SC825MBTQC-R802LPB/WB
**4-2 Control Panel Buttons**

The chassis includes two push-buttons that control power to the system.

**Reset:** The reset button is used to reboot the system.

**Power:** The main power switch is used to apply or remove power from the power supply to the server system. Turning off system power with this button removes the main power but keeps standby power supplied to the system. Therefore, you must unplug system before servicing.

---

**4-3 Control Panel LEDs**

There are six LEDs that provide status information about the system.

**Power Failure:** When flashing, this LED indicates a power supply failure.

**Information LED:** Alerts operator of several states, as noted in the table below.

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuously on and red</td>
<td>An overheat condition has occurred. (This may be caused by cable congestion.)</td>
</tr>
<tr>
<td>Blinking red (1Hz)</td>
<td>Fan failure, check for an inoperative fan.</td>
</tr>
<tr>
<td>Blinking red (0.25Hz)</td>
<td>Power failure, check for a non-operational power supply.</td>
</tr>
<tr>
<td>Solid blue</td>
<td>Local UID has been activated. Use this function to locate the server in a rack mount environment.</td>
</tr>
<tr>
<td>Blinking blue</td>
<td>Remote UID is on. Use this function to identify the server from a remote location.</td>
</tr>
</tbody>
</table>
NIC2: Indicates network activity on GLAN2 when flashing.

NIC1: Indicates network activity on GLAN1 when flashing.

HDD: Indicates all hard drive activity on the hard drive when flashing.

Power: Indicates power is being supplied to the system power supply units. This LED should normally be illuminated when the system is operating.

Overheating

There are several possible responses if the system overheats.

Overheat Temperature Setting

Some backplanes allow the overheat temperature to be set at 45, 50, or 55 by changing a jumper setting. For more information, consult the backplane user manual at www.supermicro.com. (Click Support, then the Manuals link.)
Responses

If the server overheats:

1. Use the LEDs to determine the nature of the overheating condition.

2. Confirm that the chassis covers are installed properly.

3. Check the routing of the cables and make sure all fans are present and operating normally.

4. Verify that the heatsinks are installed properly.

4-4 Drive Carrier LEDs

SAS/SATA Drives

Each SAS/SATA drive carrier has two LEDs.

- **Green**: Each Serial ATA drive carrier has a green LED. When illuminated, this green LED (on the front of the SATA drive carrier) indicates drive activity. A connection to the SATA backplane enables this LED to blink on and off when that particular drive is being accessed.

- **Red**: The red LED to indicate an SAS/SATA drive failure. If one of the SAS/SATA drives fail, you should be notified by your system management software.

4-5 Power Supply LEDs

On the rear of the power supply module, an LED displays the status.

- **Solid Green**: When illuminated, indicates that the power supply is on.

- **Solid Amber**: When illuminated, indicates the power supply is plugged in and turned off, or the system is off but in an abnormal state.

- **Blinking Amber**: When blinking, this system power supply temperature has reached 63°C. The system will automatically power-down when the power supply temperature reaches 70°C and restarts when the power supply temperature goes below 60°C.
Chapter 5

Chassis Setup and Maintenance

5-1 Overview

This chapter covers the steps required to install components and perform maintenance on the chassis. The only tools required are a Phillips screwdriver and, for a few tasks, a hex wrench.

5-2 Removing Power from the System

Before performing some setup or maintenance tasks, use the following procedure to ensure that power has been removed from the system.

1. Use the operating system to power down the system, following the on-screen prompts.

2. After the system has completely shut-down, carefully grasp the head of the power cord and gently pull it out of the back of the power supply. If your system has dual power supplies, remove the cords from both power supplies.

3. Disconnect the cord from the power strip or wall outlet.
5-3 Removing the Chassis Cover

Removing the Chassis Cover:

1. Power down the system and remove the power cord from the rear of the power supply as described in Section 5-2.

2. Remove the two screws holding the chassis in place.

3. Slide the cover toward the rear of the chassis and lift the cover from the unit.

Caution: Except for short periods of time, do not operate the server without the cover in place. The chassis cover must be in place to allow proper airflow and to prevent overheating.

Figure 5-1. Removing the Chassis Cover
Installing the Hard Drives

The SC825M(B) features three hot-swappable hard drives that can be removed from the chassis without powering down the system.

Removing the Hard Drives from the Chassis

1. Press the release button on the drive tray. This extends the drive tray handle.
2. Use the handle to pull the drive out of the chassis.

Figure 5-2. Removing Hard Drive Carriers
The hard drives are mounted in hard drive carriers to simplify their installation and removal from the chassis. These carriers also help promote proper airflow for the drive bays.

**Caution:** Except for short periods of time (while swapping hard drives), do not operate the server with the hard drive bays empty. The hard drive carrier must have a hard drive or dummy drive installed.

**Installing a Hard Drive to the Hard Drive Carrier**

1. Remove the two screws holding connecting the dummy drive to the carrier.
2. Remove the dummy drive from the carrier.
3. Install a new drive into the carrier with the printed circuit board side facing down so that the mounting holes align with those in the carrier.

4. Secure the hard drive by tightening all six screws.

5. Replace the drive carrier into the chassis by inserting fully and make sure to close the drive carrier handle.

6. Repeat these steps for each hard drive you want to install.
Installing the Rear 2.5" Hard Drive Cage (SC825MB Only)

The SC825MB model chassis supports an optional hard drive cage for two additional 2.5" hot-swappable hard drives. The hard drive cage installs in the rear of the chassis next to the power supply. Once the hard drive cage has been installed, the 2.5" hard drives may be removed without powering down the server.

**Installing the 2.5" Rear Hard Drive Cage**

1. Power down as described in section 4-1, lay the chassis on a flat, stable surface and remove the chassis cover.

2. Remove the dummy cover as shown in figure below by removing two screws on the top and one screw on the bottom.

3. Orient the 2.5" rear hard drive cage as shown, aligning the opening at the end of the cage with the opening at the back of the chassis.

4. Place the hard drive cage into the chassis.

5. Secure the front of the hard drive cage to the chassis by fastening one screw inside the opening of the hard drive cage as illustrated.
6. Secure the top of the hard drive cage to the chassis frame with two screws, fastened at the upper edge of the hard drive cage above the opening of the hard drive cage.

7. Secure the back of the hard drive cage to the chassis with one screw as shown above.

8. Replace the power cords and power up the server.
Installing the Rear Drives Into Carriers (SC825MB Only)

1. Insert a hard drive into the carrier with the PCB side facing down and the connector end toward the rear of the carrier.

2. Align the drive in the carrier so that the mounting holes of both are aligned. Note that there are holes in the carrier marked "SAS" or "SATA" to aid in correct installation.

3. Secure the drive to the carrier with four screws. Use the four M3 flat-head screws included in the HDD bag of your accessory box. Note that the screws used to secure the dummy drive to the tray cannot be used to secure the hard drive.

4. Insert the drive and carrier into its bay vertically, keeping the carrier oriented so that the release button is on the bottom. When the carrier reaches the rear of the bay, the release handle will retract.

5. Using the thumb, push against the upper part of the drive handle. Push the drive and carrier into the bay as illustrated below, until the carrier clicks into the locked position.
5-5 Installing the Motherboard

This section describes how to install the motherboard to the chassis. The hard drive housing and the metal bracket that holds the DVD and USB com port (or dummy covers) must be removed.

I/O Shield

Note: For SC825MTQ-R700LPB and SC825MBTQC-R802LPB only. For WIO chassis, the I/O is a fixed design (part of the chassis) and does not need to be installed separately.

The I/O shield holds the motherboard ports in place. Install the I/O shield before you install the motherboard.

Installing the I/O shield:

1. Review the documentation that came with your motherboard. Become familiar with component placement, requirements, and precautions.

2. Power down the system and remove the power cord from the back of the power supply module as described in Section 5-2. Remove the chassis cover as described in Section 5-3.

3. Make sure the I/O shield matches the motherboard ports. You may need to punch out the printer port.

4. With the illustrations facing the outside of the chassis, place the shield into the space provided.

5. Once installed, the motherboard will hold the I/O shield in place.

Note: The chassis pictured is an LP type, as in SC825M-R700LPB.
Hard Drive Housing and DVD Drive Removal

Before installing the motherboard, you must remove the hard drive tray housing and the DVD drive.

Removing the Hard Drive Housing

1. Power down the system and remove the power cord from the back of the power supply module as described in Section 5-2. Remove the chassis cover as described in Section 5-3.

2. Pull all three hard drive trays from the hard drive tray housing.

3. Remove each of the five screws and pull the housing upward. For screw locations, see illustration above.

Figure 5-11. Hard Drive Housing Screws

Figure 5-12. DVD Drive and USB/COM Port Tray
The DVD drive and the USB/COM port tray attach to the DVD drive bracket. For the 825MBTQC chassis model, the DVD drive and USB/COM port are not present (dummy covers are used). They are removed as a unit.

**Removing the DVD Drive Bracket**

1. Power down the system and remove the power cord from the back of the power supply module as described in Section 5-2. Remove the chassis cover as described in Section 5-3.

2. On the side of the chassis, remove the screw holding the DVD drive bracket in place.

3. Disconnect any cables to the DVD and the USB/COM port tray (if needed).

4. Slide the DVD bracket toward the rear of the chassis, sliding the bottom pins out of the slotted holes on the chassis shelf.

5. Lift the DVD bracket up and out of the chassis.

---

**Figure 5-13. DVD Drive Removal**
Permanent and Optional Standoffs

Standoffs prevent short circuits by securing space between the motherboard and the chassis surface. The SC825M(B) chassis includes permanent standoffs in locations used by most motherboards.

Some motherboards require additional screws for certain CPUs, heatsinks, and other components. Optional standoffs are included for these motherboards. To use an optional standoff, screw the standoff into the chassis in the same manner as the permanent standoffs.

Installing the Motherboard:

1. Review the documentation that came with your motherboard. Become familiar with component placement, requirements, precautions, and cable connections.

2. Power down the system and remove the power cord from the back of the power supply module as described in Section 5-2. Remove the chassis cover as described in Section 5-3.

3. As required by your motherboard, install standoffs in any areas that do not have a permanent standoff. All motherboard mounting holes should have matching chassis standoffs. If there are additional standoffs in the chassis that are not used by the motherboard, remove them. DO NOT allow extra standoffs to remain in the chassis that are not used by the motherboard.

4. Place the motherboard in the chassis aligning the permanent and optional standoffs. In addition, make sure the motherboard aligns with the I/O shield.

5. Secure the motherboard to the chassis using the rounded, Phillips head screws.

6. Secure the CPUs, heatsinks, and other components to the motherboard as described in the motherboard documentation.

7. Connect the cables between the motherboard, backplane, chassis, front panel, and power supply, as needed. Also, the fans may be temporarily removed to allow access to the backplane ports.
5-6 Installing Expansion Cards

The SC825M(B) chassis include slots for expansion cards. The number of slots varies depending upon the chassis model and the configuration of the system. See below for information specific to each chassis model.

The motherboard must be installed before expansion cards.

Expansion Cards for an LP Model Chassis

In SC825M(B) low-profile chassis models, up to seven expansion cards may be used.

1. Power down the system and remove the power cord from the back of the power supply module as described in Section 5-2. Remove the chassis cover as described in Section 5-3.

2. In the rear of the chassis, remove the blank PCI shield that is pre-installed covering the expansion slot by removing the screw securing the shield, then lifting the cover out of the PCI slot.

3. Slide the expansion card into the expansion slot on the motherboard while aligning it with the chassis slot in the rear of the chassis.

4. Secure the expansion card onto the PCI slot with the screw previously removed.
Expansion Card Setup in UIO/WIO Model Chassis

The configuration of the expansion cards in UIO/WIO models will vary, depending upon if a Universal I/O card or WIO card is used:

With a UIO card:
- Up to three full-height, half-length I/O may be used
- Up to three low-profile PCI slots may be used.

With a WIO card:
- Up to four full-height, half-length PCI slots may be used
- Up to three low-profile PCI slots may be used.

Installing an Expansion Card in a UIO/WIO Model Chassis

1. Confirm that each add on card you are installing includes a standard "L" bracket.
   If this is the first expansion card, start by locating the riser card bracket in your chassis accessory bag and one or two riser cards, which are purchased separately. One riser card accommodates the full-height expansion cards and the other accommodates the three low profile expansion cards.

2. Power down the system and remove the power cords from the rear of the power supplies as described in Section 5-2. Remove the chassis cover as described in Section 5-3.

3. Attach the riser card(s) to the riser card bracket using screws. Note that there are different cards for the right and left side of the bracket.

4. Insert the riser card(s) into the motherboard expansion slot(s) while aligning the riser card bracket with the rear of the chassis. Secure the bracket with screws (Figure 5-16).
5. Remove the screw and the retention bracket securing the right side of the full height PCI slot covers (A) (see Figure 5-17). For UIO chassis (not shown), rotate the latch instead. Once the retention bracket or latch is loose, remove the chassis L-bracket access from the inside of the chassis, see Figure 5-17.

6. Remove the screw and the retention bracket securing the left side of the PCI slot low profile covers (B), see Figure 5-17 for WIO chassis. For UIO chassis (not shown), rotate the latch instead. Once the retention bracket or latch is loosen, remove the chassis L-bracket access from inside of the chassis, see Figure 5-18.

7. Insert each expansion card into the PCI slot using the card's L bracket.

8. Secure each expansion card in its PCI slot by closing the PCI slot latch, or reinstall the retention bracket.
Installing the Air Shroud

Air shrouds concentrate airflow to maximize fan efficiency. The air shroud does not require screws to install.

**Installing the Air Shroud**

1. Power down the system and remove the power cord from the back of the power supply module as described in Section 5-2. Remove the chassis cover as described in Section 5-3.

2. Each air shroud includes perforations that can be removed to accommodate motherboard components. To ensure maximum cooling, remove only the perforations that are required.

3. Place air shroud in the chassis. The air shroud covers the four fan slots nearest to the DVD drive.
5-8 Checking the System Airflow

Proper airflow allows the chassis to keep the server components cooled and prevent damage. Use the following steps to check airflow after setup and in the unlikely event the chassis needs to be serviced.

Checking the Server’s Air Flow

- Make sure no cables or foreign objects obstruct air flow through the chassis. Pull all excess cabling out of the airflow path or use shorter cables. It is recommended that cables run beside the power supply as much as possible.
- Make sure there are no objects obstructing the airflow in and out of the server.
- Do not operate the server without hard drives or dummy drives in the hard drive trays.
- Use recommended server parts only.
- The control panel LEDs inform you of system status. See “Chapter 3: System Interface” for details on the LEDs and the control panel buttons.

5-9 Completing the Installation

Once the internal components are installed, do the following:

Completing the Installation

1. Replace the DVD drive assembly (if equipped) and connect it to the motherboard.
2. Replace the hard drive housing. It includes a SAS/SATA backplane. Connect the backplane to the motherboard.
3. Securely close the chassis cover.

If the chassis will be installed into a rack, continue to the next chapter for rack installation instructions.
5-10 System Fans

The 825M(B) chassis includes four fans for cooling and air circulation. A dummy fan is included as a place holder.

![System Fan Diagram]

**Note:** The 825M(B) chassis includes four pre-installed fans. An extra slot is included for an optional fifth fan.

**Replacing a System Fan**

1. If necessary, open the chassis while the power is running to determine which fan needs replacing. (Never run the server for an extended period of time with the chassis open.)

2. Power down the system and remove the power cord from the back of the power supply module as described in Section 5-2. Remove the chassis cover as described in Section 5-3.

3. Remove the hard drive housing and DVD drive assembly (if equipped). For instructions on doing this, see the section of this chapter on *Installing the Motherboard*.

4. Disconnect the fan from the motherboard and lift the fan from the fan tray.
5. Place the new fan into the vacant space in the housing while making sure the arrows on the top of the fan (indicating air direction) point in the same direction as the arrows on the other fans. Each fan includes rubber feet to reduce vibrations. Always use all four feet when placing a system fan.

6. Connect the new fan to the motherboard.

7. Replace the DVD drive assembly (if equipped) and hard drive housing.

8. Power up the system to check the new fan performance.

9. Close the chassis cover.

*Relocating the Fan Holder (825MBTQC-R802LPB/WB only)*

1. Power down the system and remove the power cord from the back of the power supply module as described in Section 5-2. Remove the chassis cover as described in Section 5-3.

2. Remove the hard drive housing and DVD drive assembly. For instructions on doing this, see the section in this chapter on Installing the Motherboard.

3. Disconnect all fans from the motherboard and lift the fans and fan holder away from the chassis.

4. Remove the current fan holder pins by using the supplied hex wrench.
5. Remove the metal bracket by unscrewing the 4 screws from the bottom side of chassis (see Figure 5-21).

6. Install the removed fan holder pins at the new location, using the supplied hex wrench to tighten it (see circled locations in Figure 5-22).

7. Install the fan holder/fans at the new location and connect the fans to the motherboard.

8. Install dummy cover (sold separately) directly to the chassis front window.

9. Install the hard drive housing and close the chassis cover.

Figure 5-21. Removing Fan Holder Pins

Figure 5-22. Installing Fan Holder Pins
The SC825M(B) chassis has two 700W or 800W power supplies. They are auto-switching so that they automatically sense and operate at a 100v to 240v input voltage. An amber light will be illuminated on the power supply when the power is off. An illuminated green light indicates that the power supply is operating.

**Power Supply Replacement**

The chassis includes a redundant power supply. Power supplies can be replaced without powering down the system. Replacement units can be ordered directly from Supermicro (see contact information in Chapter 1).

---

**Replacing the Power Supply**

1. Push the release tab on the back of the power supply as illustrated.
2. Pull the power supply out using the handle provided.
3. Replace the failed power module with a new unit. To do this, push the new power supply module into the power bay until you hear a click.
4. Plug the AC power cord back into the module.
Replacing the Power Distributor

The power distributor provides failover and power supply redundancy. In the unlikely event you must replace the power distributor, do the following:

1. Power down the system and remove the power cord from the back of the power supply module as described in Section 5-2. Remove the chassis cover as described in Section 5-3.

2. Remove all cable connections to the power supply from the motherboard, backplane, and other components. Also, remove both power supplies.

3. Locate the power distributor between the power supply and the fan row. Remove the three screws securing the power distributor.

4. Pull the power distributor from the chassis. Gently guide all the cables through the power distributor housing.

5. Slide the new power distributor module into the power distributor housing. Make sure that you slide the cables through the bottom of the housing.

6. Replace the screws.

7. Reconnect all the power cables, replace the power supplies, and insert the plugs into the wall.
5-12 DVD Drive and USB/COM Port

The SC825M(B) includes a metal bracket that supports the installation of a slim DVD drive and a USB/COM port tray. Please refer to Section 1-2 to determine whether these are standard or optional parts.

Other optional parts can be installed in place of a slim DVD drive or USB/COM port tray. To order, visit the Supermicro website at www.supermicro.com and click the Where to Buy link. Reference part number MCP-220-81506-0N (fitting DVD slot) and/or MCP-220-81504-0N (fitting USB/COM port slot).

**Replacing the DVD Drive or USB/COM Port**

1. Remove the hard drive housing and DVD drive bracket. For instructions on doing this, see the section of this chapter on *Installing the Motherboard*.

2. Remove the require part (DVD drive, USB/COM port, or dummy covers) from the metal bracket. They are secured by screws on both sides of the bracket.

3. Replace with other optional parts as needed.

4. Reinstall the bracket to the chassis and reconnect the cables to the motherboard and backplane.

5-13 Optional Front Bezel

The SC825M(B) chassis supports an optional full-face locking front bezel for added security. To order it, visit the Supermicro website at www.supermicro.com and click the **Where to Buy** link. Reference part number MCP-210-82502-0B.
Chapter 6
Rack Installation

This chapter provides instructions for preparing and mounting your chassis in a rack.

6-1 Unpacking the System

You should inspect the box the chassis was shipped in and note if it was damaged in any way. If the chassis itself shows damage, file a damage claim with the carrier who delivered it.

6-2 Preparing for Setup

Decide on a suitable location for the rack unit that will hold your chassis. It should be situated in a clean, dust-free area that is well ventilated. Avoid areas where heat, electrical noise and electromagnetic fields are generated. You will also need it placed near a grounded power outlet.

The box your chassis was shipped in should include two sets of rail assemblies, two rail mounting brackets and the mounting screws you will need to install the system into the rack. Please read this section in its entirety before you begin the installation procedure outlined in the sections that follow.

Choosing a Setup Location

- Leave enough clearance in front of the rack to enable you to open the front door completely (25 inches).
- Leave approximately 30 inches of clearance in the back of the rack to allow for sufficient airflow and ease in servicing.
- This product is for installation only in a Restricted Access Location (dedicated equipment rooms, service closets and similar environments).
6-3 Warnings and Precautions

Rack Precautions

- Ensure that the leveling jacks on the bottom of the rack are fully extended to the floor with the full weight of the rack resting on them.

- In single rack installations, stabilizers should be attached to the rack.

- In multiple rack installations, the racks should be coupled together.

- Always make sure that the rack is stable before extending a component from the rack.

- Only one chassis should be extended from the rack at a time. Extending two or more chassis simultaneously may cause the rack to become unstable.

General Server Precautions

- Review the electrical and general safety precautions that came with the components you are adding to your chassis.

- Determine the placement of each component in the rack before you install the rails.

- Install the heaviest server components on the bottom of the rack first, and then work upward.

- Use a regulating uninterruptible power supply (UPS) to protect the server from power surges, voltage spikes and to keep your system operating in case of a power failure.

- Allow the hot-swappable hard drives and power supply modules to cool before touching them.

- Always keep the rack's front door and all panels and components on the servers closed when not servicing to maintain proper cooling.
Chapter 6: Rack Installation

Rack Mounting Considerations

Ambient Operating Temperature
If installed in a closed or multi-unit rack assembly, the ambient operating temperature of the rack environment may be greater than the ambient temperature of the room. Therefore, consideration should be given to installing the equipment in an environment compatible with the manufacturer’s maximum rated ambient temperature (TMRA).

Reduced Airflow
Equipment should be mounted into a rack so that the amount of airflow required for safe operation is not compromised.

Mechanical Loading
Equipment should be mounted into a rack so that a hazardous condition does not arise due to uneven mechanical loading.

Circuit Overloading
Consideration should be given to the connection of the equipment to the power supply circuitry and the effect that any possible overloading of circuits might have on overcurrent protection and power supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Reliable Ground
A reliable ground must be maintained at all times. To ensure this, the rack itself should be grounded. Particular attention should be given to power supply connections other than the direct connections to the branch circuit (i.e. the use of power strips, etc.).

To prevent bodily injury when mounting or servicing this unit in a rack, you must take special precautions to ensure that the system remains stable. The following guidelines are provided to ensure your safety:

- This unit should be mounted at the bottom of the rack if it is the only unit in the rack.
- When mounting this unit in a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack.
- If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the unit in the rack.
6-4 Installing the System into a Rack

This section provides information on installing the chassis into a rack unit with the rails provided. There are a variety of rack units on the market, which may mean that the assembly procedure will differ slightly from the instructions provided. You should also refer to the installation instructions that came with the rack unit you are using. **Note:** This rail will fit a rack between 26.5" and 36.4" deep.

**Identifying the Sections of the Rack Rails**

The chassis package includes two rail assemblies in the rack mounting kit. Each assembly consists of three sections: An inner chassis rail which secures directly to the chassis, an outer rail that secures to the rack, and a middle rail which extends from the outer rail. These assemblies are specifically designed for the left and right side of the chassis.

![Diagram of rail assemblies](image)

**Figure 6-1. Identifying the Outer Rail, Middle Rail and Inner Rails**

(Left Rail Assembly Shown)
**Locking Tabs**

Each inner rail has a locking tab. This tab locks the chassis into place when installed and pushed fully into the rack. These tabs also lock the chassis in place when fully extended from the rack. This prevents the server from coming completely out of the rack when the chassis is pulled out for servicing.

**Releasing the Inner Rail**

Use the procedure below to release the inner rails from the outer rails.

*Releasing Inner Rail from the Outer Rails*

1. Identify the left and right outer rail assemblies as described previously.
2. Pull the inner rail out of the outer rail until it is fully extended as illustrated below.
3. Press the locking tab down to release the inner rail.
4. Pull the inner rail all the way out.
5. Repeat for the other outer rail.

![Figure 6-2. Extending and Releasing the Inner Rail](image-url)
Installing The Inner Rails on the Chassis

**Installing the Inner Rails**

1. Confirm that the left and right inner rails have been correctly identified.
2. Place the inner rail firmly against the side of the chassis, aligning the hooks on the side of the chassis with the holes in the inner rail.
3. Slide the inner rail forward toward the front of the chassis until the rail clicks into the locked position, which secures the inner rail to the chassis.
4. Secure the inner rail to the chassis with the screws provided.
5. Repeat for the other inner rail.

![Figure 6-3. Installing the Inner Rails](image1)

![Figure 6-4. Inner Rails Installed on the Chassis](image2)
Installing the Outer Rails on the Rack

**Installing the Outer Rails**

1. Press upward on the locking tab at the rear end of the middle rail.

2. Push the middle rail back into the outer rail.

3. Hang the hooks of the front of the outer rail onto the slots on the front of the rack. If necessary, use screws to secure the outer rails to the rack, as illustrated above.

4. Pull out the rear of the outer rail, adjusting the length until it fits within the posts of the rack.

5. Hang the hooks of the rear portion of the outer rail onto the slots on the rear of the rack. If necessary, use screws to secure the rear of the outer rail to the rear of the rack.

6. Repeat for the other outer rail.
Standard Chassis Installation

**Stability hazard.** The rack stabilizing mechanism must be in place, or the rack must be bolted to the floor before you slide the unit out for servicing. Failure to stabilize the rack can cause the rack to tip over.

*Installing the Chassis into a Rack*

1. Extend the outer rails as illustrated above.
2. Align the inner rails of the chassis with the outer rails on the rack.
3. Slide the inner rails into the outer rails, keeping the pressure even on both sides. When the chassis has been pushed completely into the rack, it should click into the locked position.
4. Optional screws may be used to secure the to hold the front of the chassis to the rack

---

![Figure 6-6. Installing into a Rack](image)

**Figure 6-6. Installing into a Rack**

**Note:** The figure above is for illustrative purposes only. Always install servers to the bottom of the rack first.

**Caution:** Do not pick up the server with the front handles. They are designed to pull the system from a rack only.
Figure 6-8. Installing the Chassis into a Rack

Figure 6-8. Completed Chassis Installation
Appendix A

SC825M(B) Power Supply Specifications

This appendix lists power supply specifications for your chassis.

### SC825MTQ-R700LPB and SC825MTQ-R700UB

<table>
<thead>
<tr>
<th></th>
<th>700W (Redundant)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MFR Part #</strong></td>
<td>PWS-702A-1R</td>
</tr>
<tr>
<td><strong>Rated AC Voltage</strong></td>
<td>100 - 240V</td>
</tr>
<tr>
<td></td>
<td>60 - 50Hz</td>
</tr>
<tr>
<td></td>
<td>10 - 4 Amp</td>
</tr>
<tr>
<td>+5V standby</td>
<td>4 Amp</td>
</tr>
<tr>
<td>+12V</td>
<td>57 Amp</td>
</tr>
<tr>
<td>+5V</td>
<td>30 Amp</td>
</tr>
<tr>
<td>+3.3V</td>
<td>24 Amp</td>
</tr>
<tr>
<td>-12V</td>
<td>0.6 Amp</td>
</tr>
</tbody>
</table>

### SC825MBTQC-R802LPB and SC825MBTQC-R802WB

<table>
<thead>
<tr>
<th></th>
<th>800W (Redundant)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MFR Part #</strong></td>
<td>PWS-802A-1R</td>
</tr>
<tr>
<td><strong>Rated AC Voltage</strong></td>
<td>100 - 240Vac</td>
</tr>
<tr>
<td></td>
<td>50 - 60Hz</td>
</tr>
<tr>
<td></td>
<td>10 - 4.5Amp</td>
</tr>
<tr>
<td>+5V standby</td>
<td>4Amp</td>
</tr>
<tr>
<td>+12V</td>
<td>61.7Amp</td>
</tr>
</tbody>
</table>
Appendix B

BPN-SAS-825MTQ Backplane Specifications

This chapter offers guidelines for personal and equipment safety, and notes about the BPN-SAS-825MTQ version documented in this manual.

B-1  ESD Safety Guidelines

Electrostatic Discharge (ESD) can damage electronic components. To prevent damage to your system, it is important to handle it very carefully. The following measures are generally sufficient to protect your equipment from ESD.

• Use a grounded wrist strap designed to prevent static discharge.

• Touch a grounded metal object before removing a component from the antistatic bag.

• Handle the backplane by its edges only; do not touch its components, peripheral chips, memory modules or gold contacts.

• When handling chips or modules, avoid touching their pins.

• Put the card and peripherals back into their antistatic bags when not in use.

B-2  General Safety Guidelines

• Always disconnect power cables before installing or removing any components from the computer, including the backplane.

• Disconnect the power cable before installing or removing any cables from the backplane.

• Make sure that the backplane is securely and properly installed on the motherboard to prevent damage to the system due to power shortage.
B-3 Version Information

The BPN-SAS-825MTQ backplane has been designed to utilize the most up-to-date technology available, providing your system with reliable, high-quality performance. This manual reflects BPN-SAS-825MTQ, Revision 1.01, the most current release available at the time of publication. Refer to the Supermicro website at www.supermicro.com for the latest updates, compatible parts and supported configurations.
B-4 Rear Connector Locations

The following connectors are on the side of the backplane that faces the rear of the chassis. They are marked by silkscreen labels.

![Rear CONNECTOR LOCATIONS](image)

Figure B-1. BPN-SAS-825MTQ Rear View

Rear Connectors

1. **Main Power Connector**: JP10
2. **Sideband (SGPIO) Connector**: JP51
3. **DVD-ROM Drive Power Connector**: J9
4. **DVD-ROM Drive Power Connector**: J10
5. **MG9071 Chip**
6. **Upgrade Connector**: JP46
7. **J8**: SAS Port #0
8. **J7**: SAS Port #1
9. **J6**: SAS Port #2
B-5 Rear Connector and Pin Definitions

1. Main Power Connector
The 4-pin connector, designated JP10, provides power to the backplane. See the table on the right for pin definitions.

<table>
<thead>
<tr>
<th>Pin#</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>+12V</td>
</tr>
<tr>
<td>2</td>
<td>Ground</td>
</tr>
<tr>
<td>4</td>
<td>+5V</td>
</tr>
</tbody>
</table>

2. Sideband Connector
The sideband connector is designated JP51. For SES-2 to work properly, you must connect an 8-pin sideband cable to JP51. See the table to the right for pin definitions.

<table>
<thead>
<tr>
<th>Pin #</th>
<th>Definition</th>
<th>Pin #</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>SDataIn (SGPIO Data In)</td>
<td>1</td>
<td>N/C</td>
</tr>
<tr>
<td>4</td>
<td>SDataIn (SGPIO Data Out)</td>
<td>3</td>
<td>GND</td>
</tr>
<tr>
<td>6</td>
<td>GND</td>
<td>5</td>
<td>SLoad (SGPIO Load)</td>
</tr>
<tr>
<td>8</td>
<td>N/C</td>
<td>7</td>
<td>SClock (SGPIO Clock)</td>
</tr>
</tbody>
</table>

3. - 4. DVD-ROM 4-Pin Connectors
The 4-pin connectors, designated J9 and J10, provide power to the DVD-ROM drive. See the table on the right for pin definitions.

<table>
<thead>
<tr>
<th>Pin#</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>+12V</td>
</tr>
<tr>
<td>2</td>
<td>Ground</td>
</tr>
<tr>
<td>4</td>
<td>+5V</td>
</tr>
</tbody>
</table>

5. MG9071 Chip
The MG9071 is an enclosure management chip used in the BPN-SAS-825MTQ backplane.
6. MG9071 Upgrade Header

The upgrade header is designated JP46 and is used for manufacturing purposes only.

7. - 9. SAS Ports

The SAS ports are used to connect the SAS drive cables. The three ports are designated #0 - #2 and are compatible with SAS/SATA drives.
B-6  Rear Jumper Locations and Pin Definitions

Figure B-2. BPN-SAS-825MTQ Rear Jumpers

Explanation of Jumpers

To modify the operation of the backplane, jumpers can be used to choose between optional settings. Jumpers create shorts between two pins to change the function of the connector. Pin 1 is identified with a square solder pad on the printed circuit board.

Note: On two pin jumpers, "Closed" means the jumper is on and "Open" means the jumper is off the pins.

<table>
<thead>
<tr>
<th>Jumper</th>
<th>Jumper Settings</th>
<th>Note</th>
</tr>
</thead>
</table>
| J35    | Open = Default  
Closed = Enabled | Activity LED Test |
| J29    | Open = Default  
Closed = Reset     | Chip Reset      |
B-7  Front Connectors and LED Indicators

Front Connector Locations

Front Connector/LED Indicator Descriptions

<table>
<thead>
<tr>
<th>Rear Connector</th>
<th>SAS Drive Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS#0</td>
<td>SAS/SATA HHD #0</td>
</tr>
<tr>
<td>SAS#1</td>
<td>SAS/SATA HHD #1</td>
</tr>
<tr>
<td>SAS#2</td>
<td>SAS/SATA HHD #2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rear LED Indicator</th>
<th>Hard Drive Activity and Failure LEDs</th>
</tr>
</thead>
<tbody>
<tr>
<td>D12</td>
<td>SCA#0 Activity LED (Connected to HDD)</td>
</tr>
<tr>
<td>D13</td>
<td>SCA#1 Activity LED (Connected to HDD)</td>
</tr>
<tr>
<td>D14</td>
<td>SCA#2 Activity LED (Connected to HDD)</td>
</tr>
<tr>
<td>D5</td>
<td>SAS#0 Failure LED (Connected to HDD)</td>
</tr>
<tr>
<td>D6</td>
<td>SAS#1 Failure LED (Connected to HDD)</td>
</tr>
<tr>
<td>D7</td>
<td>SAS#2 Failure LED (Connected to HDD)</td>
</tr>
</tbody>
</table>

Figure B-3. BPN-SAS-825MTQ Front View
Appendix C

BPN-SAS3-825MTQ Backplane Specifications

C-1  ESD Safety Guidelines

Electrostatic Discharge (ESD) can damage electronic components. To prevent damage to your system, it is important to handle it very carefully. The following measures are generally sufficient to protect your equipment from ESD.

• Use a grounded wrist strap designed to prevent static discharge.

• Touch a grounded metal object before removing a component from the antistatic bag.

• Handle the backplane by its edges only; do not touch its components, peripheral chips, memory modules or gold contacts.

• When handling chips or modules, avoid touching their pins.

• Put the card and peripherals back into their antistatic bags when not in use.

C-2  General Safety Guidelines

• Always disconnect power cables before installing or removing any components from the computer, including the backplane.

• Disconnect the power cable before installing or removing any cables from the backplane.

• Make sure that the backplane is securely and properly installed on the motherboard to prevent damage to the system due to power shortage.

C-3  Version Information

The BPN-SAS3-825MTQ has been designed to utilize the most up-to-date technology available, providing your system with reliable, high-quality performance. This manual reflects BPN-SAS3-825MTQ revision 1.02, the most current release available at the time of publication. Refer to www.supermicro.com for the latest updates, compatible parts and supported configurations.
C-4 Rear Connector Locations

The following connectors are on the side of the backplane that faces the rear of the chassis. They are marked by silkscreen labels.

Figure D-1. BPN-SAS3-825MTQ Rear View

Rear Connectors

1. Main Power Connector: JP10
2. Sideband (SGPIO) Connector: JP51
3. DVD-ROM Drive Power Connector: J9
4. DVD-ROM Drive Power Connector: J10
5. MG9071 Chip
6. Upgrade Connector: JP46
7. J8: SAS Port #0
8. J7: SAS Port #1
9. J6: SAS Port #2
Appendix C: BPN-SAS3-825MTQ Backplane Specifications

C-5  Rear Connector and Pin Definitions

1. Main Power Connector
   The 4-pin connector, designated JP10, provides power to the backplane.

<p>| Backplane Main Power 4-Pin Connector |</p>
<table>
<thead>
<tr>
<th>Pin#</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>+12V</td>
</tr>
<tr>
<td>2 and 3</td>
<td>Ground</td>
</tr>
<tr>
<td>4</td>
<td>+5V</td>
</tr>
</tbody>
</table>

2. Sideband Connector
   The sideband connector is designated JP51. For SES-2 to work properly, you must connect an 8-pin sideband cable to JP51.

<p>| Sideband Connector |</p>
<table>
<thead>
<tr>
<th>Pin #</th>
<th>Definition</th>
<th>Pin #</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>SD data In (SGPIO Data In)</td>
<td>1</td>
<td>N/C</td>
</tr>
<tr>
<td>4</td>
<td>SD data In (SGPIO Data Out)</td>
<td>3</td>
<td>GND</td>
</tr>
<tr>
<td>6</td>
<td>GND</td>
<td>5</td>
<td>SLoad (SGPIO Load)</td>
</tr>
<tr>
<td>8</td>
<td>N/C</td>
<td>7</td>
<td>SClock (SGPIO Clock)</td>
</tr>
</tbody>
</table>

3. - 4. DVD-ROM 4-Pin Connectors
   The 4-pin connectors, designated J9 and J10, provide power to the DVD-ROM drive.

5. MG9071 Chip
   The MG9071 is an enclosure management chip.

6. MG9071 Upgrade Header
   The upgrade header, designated JP46, is for manufacturing purposes only.

7. - 9. SAS Ports
   The SAS ports are used to connect the drive cables. The three ports are designated #0 - #2 and are compatible with SAS/SATA drives.
C-6  Rear Jumper Locations and Pin Definitions

Explanation of Jumpers

To modify the operation of the backplane, jumpers can be used to choose between optional settings. Jumpers create shorts between two pins to change the function of the connector. Pin 1 is identified with a square solder pad on the printed circuit board.

Note: On two pin jumpers, "Closed" means the jumper is on and "Open" means the jumper is off the pins.

<table>
<thead>
<tr>
<th>Jumper</th>
<th>Jumper Settings</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>J35</td>
<td>Open = Default</td>
<td>Activity LED Test</td>
</tr>
<tr>
<td></td>
<td>Closed = Enabled</td>
<td></td>
</tr>
<tr>
<td>J29</td>
<td>Open = Default</td>
<td>Chip Reset</td>
</tr>
<tr>
<td></td>
<td>Closed = Reset</td>
<td></td>
</tr>
</tbody>
</table>

Figure C-2. BPN-SAS3-825MTQ Rear Jumpers
C-7 Front Connectors and LED Indicators

Front Connector Locations

Figure C-3. BPN-SAS3-825MTQ Front View

Front Connector/LED Indicator Descriptions

<table>
<thead>
<tr>
<th>Front SAS Connectors</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rear Connector</strong></td>
</tr>
<tr>
<td>SAS#0</td>
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<tr>
<td>SAS#1</td>
</tr>
<tr>
<td>SAS#2</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Front LED Indicators</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rear LED Indicator</strong></td>
</tr>
<tr>
<td>D12</td>
</tr>
<tr>
<td>D13</td>
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<tr>
<td>D14</td>
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<td>D5</td>
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<tr>
<td>D6</td>
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<td>D7</td>
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</tbody>
</table>
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