

Safety and Regulatory Information

HP Blade Server bh3710

Regulatory Model: RSVLA-0103-DC



First Edition
E0402

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HP Blade Server bh3710 Safety and Regulatory Information



Notational Conventions

WARNING Warnings highlight procedures or information necessary to avoid injury to personnel. The warning shall tell the reader exactly what will result from what actions and how to avoid them.

CAUTION A caution highlights procedures or information necessary to avoid damage to equipment, damage to software, loss of data, or invalid test results.

NOTE A note highlights supplemental information.

Overview

Hewlett-Packard utilizes numerous marketing model numbers and nomenclature to identify Enterprise Server products. Within a product family, the marketing model number typically identifies differences in the processor and I/O options. A product family is defined as a group of products wherein the form, fit, function, and power subsystem are essentially the same. Our practice is to assign a "regulatory number" to a product family to support monitoring and control of changes that potentially impact safety and EMC. The assigned regulatory product number for this product is RSVLA-0103-DC. The regulatory product number RSVLA-0103-DC is equivalent to the marketing designations referenced throughout this document.

Regulatory Compliance statements are required by some countries/regions for international importation of the HP Blade Server bh3710. The following information is provided:

- Product Information
- Regulatory Information
- Electrical Safety
- Electrostatic Discharge (ESD) Precautions
- International Symbols (IEC 417)
- Associated Documents
- Installation Conditions
- Fuse Warnings

Lithium Battery Warning
Cabinet Safety Precautions
Declaration of Conformity
FCC Statement (USA Only)
Canada RFI Statement
European Union RFI Statement
Acoustics (Germany)
Australian C-Tick Label
Laser Safety

Product Information

For detailed information on the HP Blade Server bh3710 product, please go to the <http://docs.hp.com> Web site (in the Systems Hardware selection).

Regulatory Information

For your protection, this product has been tested for conformance to various national and international regulations and standards. The scope of this regulatory testing includes electrical and mechanical safety, electromagnetic emissions, immunity, acoustics and hazardous materials.

When required, approvals are obtained from third party test agencies. Approval marks appear on the product label. In addition, various regulatory bodies require some information under the headings listed in this section.

Network Equipment-Building Systems (NEBS) Compliance

This system is compliant with NEBS Level 3 requirements as defined in GR63 and GR1089 standards.

Electrical Safety

Locate the DC outlet near the computer! The DC power cords are this product's main DC disconnect devices and must be easily accessible at all times.

Electrostatic Discharge (ESD) Precautions

When handling any electronic component or assembly (such as, a PCI card or Memory SIMM), you must observe the following antistatic precautions to prevent damage. An ESD kit (HP Part Number A5201-68004) is available (or supplied with Memory additions). This kit contains one wrist strap, one conductive sheet, and one anti-static foam pad.

- Always wear a grounded wrist strap when working around the system, and when handling printed circuit boards.
- Treat all assemblies, components and interface connections as static-sensitive.
- Avoid working in carpeted areas, and keep body movement to a minimum while removing or installing boards, to minimize buildup of static charge.

International Symbols (IEC 417)

Figure 1 Protective Earth (ground)



Figure 2 Direct Current



Figure 3 Alternating Current



Figure 4 On (Supply)



Figure 5 Off (Supply)



Associated Documents

The following documents provide more details on the topics presented in this manual:

- Standard for the Protection of Electronic Computer Data Processing Equipment, (NFPA75) National Fire Protection Association
- EIA Standard RS-232-C, Electronic Industries Association
- Electrostatic Discharge Failures of Semiconductor Devices, Unger, B.A. 1981, Bell Laboratories
- HP Blade Server bh3710: Site Preparation Guide
- HP Blade Server bh3710: Installation Guide

Installation Conditions

See installation instructions before connecting to the supply.

WARNING This equipment is configured with multiple power sources. Hazardous voltages and energy may be present even after the removal of a single input source. Trained service personnel must follow guidelines stipulated in the service guidelines in the HP Blade Server bh3710 EPSS.

WARNING NORDIC Class 1 Equipment

Denmark: Før tilslutning af de øvrige ledere, se medfølgende installationsvejledning.

Sweden: Apparaten skall anslutas till jordat uttag, när den ansluts till ett nätverk.

Fuse Warnings

WARNING No internal serviceable fuses. Factory replacement of the non-operating module is required.

Lithium Battery Warning

Battery Disposal

This hp product contains one or more Lithium ion batteries located on the cell board that may require special handling at end-of-life.

In the Netherlands: Batteries are delivered with this product. When empty do not throw them away, but collect them as small chemical waste.



Bij dit product zijn batterijen geleverd. Wanneer de batterijen leeg zijn, dient u deze niet als huisvuil weg te gooien, maar als KCA in te leveren.

Cabinet Safety Precautions

WARNING Cabinets are heavy even when empty. Exercise caution when moving cabinets whether equipment is installed in the cabinet or not. Avoid rolling cabinets on rough or uneven surfaces or inclines greater than 10 degrees. Unloading cabinets from the pallet and movement of cabinets should be performed by at least two people.

WARNING Slideable products are not to be extended from the cabinet while the equipment is on the shipping pallet. The cabinet must be unloaded from the pallet and both front and rear anti-tip feet properly installed prior to extending any slideable product.

WARNING Once installed, both the front and rear anti-tip feet must remain in place to maintain stability. Only one slideable product must be extended at a time.

WARNING Use of any slide mount product requires the installation of a cabinet anti-tip device.

The anti-tip device for the following cabinet products is a pair of anti-tip feet: A4900A, A4901A, A4902A, A5134A, A5135A, A5136A, J1500A/B, J1501A/B, and J1502A/B. Additional anti-tip feet information is located at www.hp.com/racksolutions

Install both front and rear anti-tip feet on the cabinet before installing any slide mount product.

Before installing this product in any HP rack, you must install an anti-tip stabilizer kit and ballast kit.

Failure to follow these precautions can result in damage to equipment or injury to personnel.

Procedimentos de Segurança - Armários

ATENÇÃO Os armários são pesados, mesmo quando vazios. Tenha cuidado ao movimentar os armários, quer haja equipamentos instalados quer não. Evite deslizar os armários sobre superfícies acidentadas, irregulares ou com inclinação superior a 10 graus. A retirada dos armários do palete e sua movimentação deverão ser feitas por, no mínimo, duas pessoas.

ATENÇÃO Partes deslizantes não deverão ser abertas enquanto o armário encontrar-se no palete de embarque. O armário deve ser descarregado do palete e os anteparos nos pés dianteiros e traseiros devem ser instalados adequadamente antes de se abrir qualquer parte deslizante.

ATENÇÃO Uma vez instalados, tanto os anteparos nos pés dianteiros quanto nos traseiros devem permanecer em seus lugares adequados para garantir a estabilidade da peça. Deve-se abrir apenas uma parte deslizante por vez.

ATENÇÃO O uso de qualquer produto de montagem deslizante requer a instalação de um dispositivo anti-tombamento para armários.

Um par de pés anti-tombamento é o dispositivo anti-tombamento para os seguintes armários: A4900A, A4901A, A4902A, A5134A, A5135A, A5136A, J1500A/B, J1501A/B, e J1502A/B. Há outras informações sobre pés anti-tombamento em www.hp.com/racksolutions.

Instalar ambos os pés anti-tombamento na frente e atrás do armário antes da instalação de qualquer produto de montagem deslizante.

Antes de instalar este produto em qualquer bandeja HP é preciso instalar um kit estabilizador e um kit de balastro (ou contrapeso).

A não observância destas precauções pode resultar em danos ao equipamento ou lesões as pessoas.

Säkerhetsföreskrifter för kabinett

VARNING Kabinetten är tunga även när de är tomma. Var försiktig när du flyttar ett kabinett, oavsett om det är tomt eller innehåller utrustning. Undvik att rulla kabinett på ett underlag som är ojämnt eller lutar mer än 10 grader. Det krävs minst två personer för att lasta av ett kabinett från transportpallen eller för att flytta det.

VARNING Inskjutningsbara produkter får inte vara utdragna när utrustningen befinner sig på transportpallen. Kabinettet måste lastas av från pallan och tippskyddsfötter ska monteras både fram- och baktill innan en inskjutningsbar produkt dras ut.

VARNING Efter montering ska tippskyddsfötterna sitta kvar både fram- och baktill så att stabiliteten upprätthålls. De inskjutningsbara produkterna får bara dras ut en i sänder.

VARNING Kabinettet måste tippskyddas för att en inskjutningsbar produkt ska kunna användas.

För följande kabinettprodukter ska två tippskyddsfötter användas: A4900A, A4901A, A4902A, A5134A, A5135A, A5136A, J1500A/B, J1501A/B och J1502A/B. Ytterligare upplysningar om tippskyddsfötter finns på www.hp.com/racksolutions.

Installera både den främre och den bakre tippskyddsfoten på kabinettet innan du installerar en inskjutningsbar produkt.

Innan du installerar produkten i ett HP-rack, måste en tippskyddande stabilisatorsats och en ballastsats installeras.

Om dessa föreskrifter inte följs föreligger risk för personskada eller skada på utrustningen.

Voorzorgsmaatregelen voor de veiligheid voor kasten

WAARSCHUWING Kastenvrij zijn zwaar, ook als deze leeg zijn. Ga voorzichtig te werk als u een kast verplaatst, of er nu wel of niet apparatuur in de kast is geïnstalleerd. Rol kasten niet over ruwe of ongelijke oppervlakken of hellingen van meer dan 10 graden. Als u een kast van een pallet moet afhaken of moet verplaatsen, doet u dat dan altijd met twee personen.

WAARSCHUWING Zorg ervoor dat er geen uitschuifbare onderdelen uit de kast uitsteken als de apparatuur ter verzending op een pallet is geplaatst. Voordat u een uitschuifbaar onderdeel uitschuift, moet u de kast eerst van het pallet halen en de stabilisatiesteunen aan de voor- en achterkant op de juiste manier installeren.

WAARSCHUWING Zodra de kast is geïnstalleerd, mogen de stabilisatiesteunen niet meer worden verplaatst. U mag niet meer dan één uitschuifbaar onderdeel tegelijk uitschuiven.

WAARSCHUWING Als u verwisselbare opslagmedia wilt plaatsen, moet u de kast stabiliseren.

Voor de volgende producten maakt u gebruik van stabilisatiesteunen: A4900A, A4901A, A4902A, A5134A, A5135A, A5136A, J1500A/B, J1501A/B en J1502A/B. Extra informatie over stabilisatiesteunen vindt u op het adres www.hp.com/racksolutions.

U moet de stabilisatiesteunen zowel aan de voorkant als aan de achterkant van de kast aanbrengen voordat u verwisselbare opslagmedia plaatst.

Voordat u dit product in een HP-rack plaatst, dient u eerst stabilisatie- en een ballastkit te installeren.

Als u deze aanwijzingen niet opvolgt, kan dit leiden tot schade aan de apparatuur of lichamelijk letsel.

Sikkerhedsforanstaltninger for skabe

ADVARSEL Skabene er tunge, selv når de er tomme. Vær forsigtig når De flytter skabe, hvad enten der er installeret udstyr i skabet eller ej. Undgå at rulle skabe på ru eller ujævne overflader eller skråninger der hælder mere end 10 grader. Der skal mindst to personer til at aflæse skabe fra pallen og til at flytte skabe.

ADVARSEL Udtræksdele må ikke være trukket ud, når skabet står på forsendespallen. Skabet skal først læses af pallen og anti-tip fødderne skal være installeret både forpå og bagpå, før udtræksdelene må trækkes ud.

ADVARSEL Efter installation skal både de forreste og bageste anti-tip fødder blive siddende for at opretholde stabiliteten. Der må kun trækkes en udtræksdel ud ad gangen.

ADVARSEL Ved enhver brug af udtræksdele skal der monteres anti-tip indretninger for skabet.

For følgende skabstyper anvendes der som anti-tip indretning et par anti-tip fødder: A4900A, A4901A, A4902A, A5134A, A5135A, A5136A, J1500A/B, J1501A/B og J1502A/B. Yderligere oplysninger om anti-tip fødder findes på www.hp.com/racksolutions.

Anti-tip fødderne skal monteres både på for- og bagsiden, før der isættes udtræksdele.

Inden dette produkt installeres i et HP rack, skal De installere et anti-tip stabilisatorsæt og et ballastsæt.

Hvis ovenstående anvisninger ikke følges, kan det medføre materiel skade eller kvæstelse.

Sikkerhetsforanstaltninger for skapene

ADVARSEL Skapene er tunge, selv når de er tomme. Vær forsiktig når du flytter skap, uansett om de er tomme eller inneholder utstyr. Ikke rull skap på ru eller ujevne overflater eller i skråninger som heller mer enn 10 grader. Det trengs minst to personer til lessing av skap fra pallen og til flytting av skap.

ADVARSEL Produkter som kan gli inn og ut av skapet bør ikke være trukket ut når skapet er på transportpallen. Skabet må lesses av pallen og anti-tippe-føtter må være påmontert både foran og bak før et produkt som kan gli inn og ut av skapet, trekkes ut.

ADVARSEL Etter montering skal anti-tippe-føttene både foran og bak fortsatt være på for å opprettholde stabilitet. Produkter som kan gli inn og ut av skapet, må kun trekkes ut ett og ett om gangen.

ADVARSEL Bruk av produkter som kan gli inn og ut, krever at det installeres en anti-tippe-enhet for skap.

Anti-tippe-enheten for følgende skapprodukter er et par anti-tippe-føtter: A4900A, A4901A, A4902A, A5134A, A5135A, A5136A, J1500A/B, J1501A/B og J1502A/B. Mer informasjon om anti-tippe-føtter finner du på www.hp.com/racksolutions.

Installer både fremre og bakre anti-tippe-fot på skapet før du installerer produkter som kan gli inn og ut.

Før du installerer dette produktet i et HP-rack, må du installere et anti-tipp stabilisatorsett og et ballastsett.

Hvis disse forholdsreglene ikke blir fulgt, kan det føre til skade på utstyr eller personer.

Laitekaappia koskeva turvavaroitus

VAROITUS Kaapit ovat tyhjinäkin painavia. Ole varovainen siirtäessäsi kaappia siitä riippumatta, onko siihen asennettu laitteistoa. Älä rullaa kaappeja karkeilla tai epätasaisilla pinnoilla tai jos pinnan kaltevuus ylittää 10 astetta. Kaappien ottamiseen alas lastausalustalta ja niiden siirtämiseen tarvitaan ainakin kaksi henkilöä.

VAROITUS Liukuvia osia ei pidä vetää ulos kaapista laitteen ollessa lastausalustalla. Kaappi täytyy ottaa alas alustalta, ja sekä etummaisena että takimmaisena kallistustuen täytyy olla asennettu ennen liukuvien osien vetämistä ulos.

VAROITUS Kun kallistustuet on asennettu, ne täytyy jättää paikoilleen sekä edessä että takana, jotta kaappi pysyisi vakaasti paikoillaan. Vain yksi liukuosa saa olla ulkona kerrallaan.

VAROITUS Liukuviksi asennettävien tuotteiden käyttö vaatii laitekaapin kaatumisen estävän laitteen asentamista.

Kaatumisen estävä laite laitekaapeille A4900A, A4901A, A4902A, A5134A, A5135A, A5136A, J1500A/B, J1501A/B ja J1502A/B on pari kaatumisen estäviä jalkoja. Lisätietoja kaatumisen estävistä laitteista on Web-osoitteessa www.hp.com/racksolutions.

Asenna sekä etu- että takajalka laitekaappiin ennen liukuviksi asennettävien tuotteiden asentamista.

Ennen kuin asennat tämän tuotteen mihinkaan HP-laitekaappiin, sinun on asennettava liukumisen estävä tasapainopaketti ja painolastipaketti.

Näiden ohjeiden noudattamatta jättäminen voi johtaa laitteiston vaurioitumiseen tai ihmisten loukkaantumiseen.

Меры предосторожности при работе со стойками

ОСТОРОЖНО Стойка очень тяжелая, даже если в ней не установлено оборудование, поэтому при ее перемещении соблюдайте меры предосторожности. Избегайте перемещения стойки по неровной поверхности или поверхности с углом наклона более 10 градусов. Снятие стойки с поддона и ее перемещение необходимо выполнять по крайней мере вдвоем.

ОСТОРОЖНО Оборудование, установленное на полозьях, нельзя выдвигать из стойки, пока она находится на транспортировочном поддоне. Прежде чем выдвинуть из стойки какое-либо оборудование, необходимо снять стойку с поддона и выдвинуть спереди и сзади стойки дополнительные опоры, предохраняющие от опрокидывания.

ОСТОРОЖНО Для обеспечения устойчивости стойки передние и задние опоры, предохраняющие стойку от опрокидывания, должны быть всегда выдвинуты. Никогда не выдвигайте одновременно более одного компонента оборудования, установленного на полозья.

ОСТОРОЖНО Перед использованием какого-либо оборудования, установленного на полозьях, необходимо установить устройство, предохраняющее стойку от опрокидывания.


Для стоек A4900A, A4901A, A4902A, A5134A, A5135A, A5136A, J1500A/B, J1501A/B и J1502A/B таким устройством являются две дополнительные опоры, которые крепятся к нижней части стойки. Дополнительную информацию см. на Web-узле HP по адресу: www.hp.com/racksolutions.

Прежде чем устанавливать на полозьях какое-либо оборудование, установите спереди и сзади стойки опоры, предохраняющие от опрокидывания.

Перед монтажом данного оборудования в любой стойке HP необходимо установить стабилизатор и балласт предохраняющие от опрокидывания.

Несоблюдение этих мер предосторожности может привести к травмам персонала и повреждению оборудования.

Declaration of Conformity

DECLARATION OF CONFORMITY according to ISO/IEC Guide 22 and EN 45014	
Manufacturer's Name:	Hewlett-Packard Company Internet & Applications Systems Division
Manufacturer's Address:	8000 Foothills Blvd. Roseville, CA 95747 USA
declares, that the product	
Product Name:	HP Blade Server bh37xx (where x is any number 0-9)
Regulatory Model:	RSVLA-0103-xx (where -xx is an optional suffix and x is any letter or blank)
Product Options:	All
conforms to the following Product Specifications:	
Safety:	IEC 60950:1991+A1+A2 +A3 +A4 / EN 60950: 1992+A1+A2 +A3 +A4 +A11 IEC 60825-1:1993 +A1 / EN 60825-1:1994+A11, Class 1 GB 4943-1995
EMC:	CISPR 22:1997 / EN 55022:1998 Class A ¹⁾ CISPR 24:1997 / EN 55024:1998
	IEC 61000-3-2:1995 / EN 61000-3-2:1995 +A14 IEC 61000-3-3:1994 / EN 61000-3-3:1995 GB 9254-1988
Supplementary Information:	
The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC and carries the CE marking accordingly.	
1) The product was tested in a typical configuration with Hewlett-Packard computer peripherals.	
2) DC versions of the product were tested in a typical configuration with a Hewlett-Packard 6813A AC/DC power source.	
	 Frank D. Dembski Jr., Quality Manager
Roseville, 12/1/01	
European Contact: Your local Hewlett-Packard Sales and Service Office or Hewlett-Packard GmbH, Department HQ-TRE, Herrenberger Straße 130, D-71034 Böblingen (FAX: + 49-7031-14-3143)	

FCC Statement (USA Only)

The United States Federal Communications Commission has specified that the following notice be brought to the attention of users of this product:

NOTE 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 instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Hewlett-Packard's system verification tests were conducted with HP-supported peripheral devices and HP shielded cables, such as those you receive with your computer. Changes or modifications not expressly approved by Hewlett-Packard could void the user's authority to operate the equipment. Cables used with this device must be properly shielded to comply with the requirements of the FCC.

Canada RFI Statement

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

European Union RFI Statement

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Acoustics (Germany)

Acoustic noise level per ISO 9296 (25° C):

LpA_m 53.0dB (bystander position)

Australian C-Tick Label



Laser Safety

NOTE If a Fibre Channel I/O card is present, the following laser safety statement applies.

This product contains a laser internal to the Optical Link Module (OLM) for connection to the Fibre communications port.

In the USA, the OLM is certified as a Class 1 laser product conforming to the requirements contained in the Department of Health and Human Services (DHHS) regulation 21 CFR, Subchapter J. The certification is indicated by a label on the plastic OLM housing.

Outside the USA, the OLM is certified as a Class 1 laser product conforming to the requirements contained in IEC 60825-1:1993 and EN 60825-1:1994, including Amendment 11:1996.

NOTE If a DVD is present, the following laser safety statement applies.

This product contains a laser internal to the Digital Versatile Disc (DVD) housing.

In the USA, the DVD is certified as a Class 1 laser product conforming to the requirements contained in the Department of Health and Human Services (DHHS) regulation 21 CFR, Subchapter J. The certification is indicated by a label on the DVD housing.

Outside the USA, the DVD is certified as a Class 1 laser product conforming to the requirements contained in IEC 60825-1:1993+A1 and EN 60825-1:1994+A11.

