

Safety and Regulatory Information

HP 9000 rp4410 and HP 9000 rp4440

Regulatory Model Number: RSVLA-0201



Manufacturing Part Number: A9950-96006-en

Third Edition

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1 HP 9000 rp4410 and HP 9000 rp4440 System Safety and Regulatory Information

Overview

Regulatory Compliance statements are required by some countries or regions for international importation of HP servers. The following information is provided:

- Notational Conventions
- Product Information
- Regulatory Information
- Regulatory Model Number
- Electrical Safety
- Electrostatic Discharge (ESD) Precautions
- Lithium Battery Caution (for User Replaceable Batteries)
- Laser Safety
- Cabinet Safety Precautions
- Disposal of waste equipment by users in private household in the European Union
- European Union RFI Statement
- USA Radio Frequency Interference (FCC Notice)
- Japan Radio Frequency Interference (VCCI)
- Japan Power Cord Notice
- Korea RFI Statement
- Canada RFI Statement
- Australia C-Tick Label
- Taiwan BSMI
- Taiwan Battery Warning
- Germany Acoustics
- Declaration of Conformity

Notational Conventions

WARNING Warnings highlight procedures or information necessary to avoid injury to personnel. The warning should 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.

Product Information

For detailed information on the HP 9000 rp4410 and HP 9000 rp4440 products, go to <http://docs.hp.com> (Enterprise Servers, Workstations and Systems Hardware section).

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.

Regulatory Model Number

For the purpose of regulatory compliance certifications and identification, the HP 9000 rp4410 and HP 9000 rp4440 servers are assigned an HP regulatory model number. The HP regulatory model number for these products is **RSVLA-0201**. This number can be found on the product label, along with the required approval markings and information. When requesting certification information for this product, always refer to this regulatory model number.

NOTE Do not confuse the regulatory model number with the marketing or model number assigned to your HP 9000 rp4410 or HP 9000 rp4440 server.

Electrical Safety

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

This product has not been evaluated for connection to an "IT" power system (AC distribution system having no direct connection to earth according to IEC 60950).

Installation Conditions

See installation instructions before connecting this equipment to the input supply.

WARNING **The equipment must be provided with a proper AC protective earth (PE) ground connection.**

Network Connected Equipment

WARNING **The installation must provide a ground connection for the network equipment.**

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 P/N A3024-80004) is available (or supplied with memory additions). This kit contains one wrist strap, one conductive sheet, and one antistatic foam pad.

- Always disconnect power from the server and wear a grounded wrist strap when working around the server. Always wear a grounded wrist strap 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.

Lithium Battery Caution (for User Replaceable Batteries)

WARNING **Observe the correct polarity when changing the lithium battery. There is a danger of explosion if battery is installed incorrectly.**

Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions and local disposal requirements.

IMPORTANT Switzerland: Annex 4.10 of SR 814.013 applies to batteries.

Laser Safety

NOTE Laser devices installed in this equipment must be certified as Class 1 Laser devices by the Regulatory Agency recognized by the country where the equipment is installed.

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.

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.

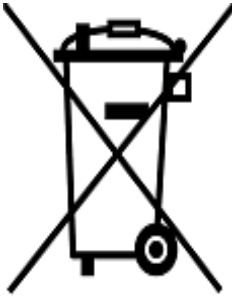
Slideable products are not to be extended from the cabinet while the equipment is on the shipping pallet. The cabinet must be unloaded from the pallet and all anti-tip devices properly installed prior to extending any slideable product.

Once installed, all anti-tip devices must remain in place to maintain stability. Only one slideable product must be extended at a time.

To determine ballast requirements, refer to the ballast worksheets in documentation accompanying the cabinet, or to information available at <http://docs.hp.com>.

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

Disposal of waste equipment by users in private household in the European Union



This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

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.

USA Radio Frequency Interference (FCC Notice)

The Federal Communications Commission (in 47 CFR Part 15 subpart B) has specified that the following notice be brought to the attention of the 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.

HP'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 HP 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.

Japan Radio Frequency Interference (VCCI)

Harmonics Current Guideline-Compliant Device

This equipment is in the Class A category information technology equipment based on the rules of Voluntary Control Council For Interference by Information Technology Equipment (VCCI). When used in a residential area, radio interference may be caused. In this case, the user may be required to take appropriate corrective actions.

Japan Power Cord Notice

Your computer must use only the power cord that was shipped with the computer. Do not use this power cord with any other products.

Korea RFI Statement

This equipment has been tested to comply with the limits for a Class A digital device. This equipment should be operated in a commercial environment. Please exchange if you purchased this equipment for noncommercial purposes.

Canada RFI Statement

This Class A digital apparatus complies with Canadian ICES-003.

Australia C-Tick Label



Taiwan BSMI

This product has been reviewed and is fully compliant to CNS 13438 (CISPR 22: 1993) Class A.

Warning Users: This is a Class A IT (Information Technology) Product. If this product is used in a domestic environment, radio frequency disturbance may occur, in which case the user may be required to take corrective actions.

Taiwan Battery Warning

The Taiwan EPA requires dry battery manufacturing or importing firms in accordance with Article 15 of the Waste Disposal Act are required to indicate the recovery marks on the batteries used in sales, giveaway or promotion. Contact a qualified Taiwanese recycler for proper battery disposal.

Figure 1-1 Taiwan Battery Warning




Germany Acoustics

Acoustic noise:

- Sound Pressure: $L_{pAm} < 55\text{dB}$
- Sound Power: $L_{WAd} < 7.5\text{ Bels}$

L_{pAm} is weighted Sound Pressure Level (L_{pA}) measured at the bystander position and normal operation per ISO 9296. L_{WAd} is a weighted Sound Power Level Reference at normal operation per ISO 9296.

Declaration of Conformity

DECLARATION OF CONFORMITY according to ISO/IEC Guide 22 and EN 45014	
Manufacturer's Name:	Hewlett-Packard Company General Systems and Technology Lab
Manufacturer's Address:	8000 Foothills Blvd. Roseville, CA 95747 USA
declares, that the product	
Product Name:	HP Server rp44yy and rx46yy (y is any number 0-9)
Regulatory Model:	RSVLA-0201-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 60950-1:2001 / EN 60950:2001 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 + A1:2001 / EN 55024:1998 + A1:2001 IEC 61000-3-2:2000 / EN 61000-3-2: 2000 IEC 61000-3-3/A1:2001 / EN 61000-3-3/A1:2001 GB 9254-1998 GB 17625.1-2003
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 and recommended cables.	
Roseville, 09/14/04	 Frank D. Dembski Jr. Hardware Compliance Manager
European Contact: Your local Hewlett-Packard Sales and Service Office or Hewlett-Packard GmbH, Department HQ-TRE, Herrenberger Straße140, D-71034 Böblingen (FAX: + 49-7031-14-3143)	