

Roadmap for installing the D24 and T24 expansion units



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ESCALA

Roadmap for installing the D24 and T24 expansion units

Hardware

May 2009

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Safety notices may be printed throughout this guide:

- **DANGER** notices call attention to a situation that is potentially lethal or extremely hazardous to people.
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IBM® servers can use I/O cards or features that are fiber-optic based and that utilize lasers or LEDs.

Laser compliance

All lasers are certified in the U.S. to conform to the requirements of DHHS 21 CFR Subchapter J for class 1 laser products. Outside the U.S., they are certified to be in compliance with IEC 60825 as a class 1 laser product. Consult the label on each part for laser certification numbers and approval information.

CAUTION:

This product might contain one or more of the following devices: CD-ROM drive, DVD-ROM drive, DVD-RAM drive, or laser module, which are Class 1 laser products. Note the following information:

- **Do not remove the covers. Removing the covers of the laser product could result in exposure to hazardous laser radiation. There are no serviceable parts inside the device.**
- **Use of the controls or adjustments or performance of procedures other than those specified herein might result in hazardous radiation exposure.**

(C026)

CAUTION:

Data processing environments can contain equipment transmitting on system links with laser modules that operate at greater than Class 1 power levels. For this reason, never look into the end of an optical fiber cable or open receptacle. (C027)

CAUTION:

This product contains a Class 1M laser. Do not view directly with optical instruments. (C028)

CAUTION:

Some laser products contain an embedded Class 3A or Class 3B laser diode. Note the following information: laser radiation when open. Do not stare into the beam, do not view directly with optical instruments, and avoid direct exposure to the beam. (C030)

Power and cabling information for NEBS (Network Equipment-Building System) GR-1089-CORE

The following comments apply to the IBM servers that have been designated as conforming to NEBS (Network Equipment-Building System) GR-1089-CORE:

The equipment is suitable for installation in the following:

- Network telecommunications facilities
- Locations where the NEC (National Electrical Code) applies

The intrabuilding ports of this equipment are suitable for connection to intrabuilding or unexposed wiring or cabling only. The intrabuilding ports of this equipment *must not* be metallically connected to the interfaces that connect to the OSP (outside plant) or its wiring. These interfaces are designed for use as intrabuilding interfaces only (Type 2 or Type 4 ports as described in GR-1089-CORE) and require isolation from the exposed OSP cabling. The addition of primary protectors is not sufficient protection to connect these interfaces metallically to OSP wiring.

Note: All Ethernet cables must be shielded and grounded at both ends.

The ac-powered system does not require the use of an external surge protection device (SPD).

The dc-powered system employs an isolated DC return (DC-I) design. The DC battery return terminal *shall not* be connected to the chassis or frame ground.

Road map for installing the 5786, 5787, 7031-D24, and 7031-T24 expansion units

Follow the steps outlined in this road map for installing your expansion unit.

Note: This document is provided in printed form as a high-level overview of tasks for installing 5786, 5787, 7031-D24, and 7031-T24 expansion units. For best results, use the online version of this document at Road map for installing the 5786, 5787, 7031-D24, and 7031-T24 expansion units (<http://publib.boulder.ibm.com/infocenter/systems/scope/hw/topic/arecl/areclroadmap.htm>).

To install the 5786, 5787, 7031-D24, and 7031-T24 expansion units you must perform the following tasks. These tasks are arranged in a series of chronological steps for installing your expansion unit. Where appropriate links are available to provide you with additional detail related to performing these tasks. **At the completion of each task, return to this road map for guidance related to performing the next task.**

1. **Unpack the expansion unit.**
2. **Complete a parts inventory.** For details, go to this link and complete steps 1 and 2 Installing the model 5786, or 7031-D24 into a rack (<http://publib.boulder.ibm.com/infocenter/systems/scope/hw/topic/iphbf/iphbf7031.htm>).
3. **Verify the rack.**

Note:

This step is optional. Skip to step 7 for deskside units.

If the rack is not installed, see Installing the rack (<http://publib.boulder.ibm.com/infocenter/systems/scope/hw/topic/iphbf/installrack.htm>).

4. **Determine where to install the expansion unit in the rack.** For details, see Determining the location (<http://publib.boulder.ibm.com/infocenter/systems/scope/hw/topic/iphbf/locateinrack7031.htm>).
5. **Install the rail assembly into the rack.** For details, see Attaching the mounting hardware to the rack (<http://publib.boulder.ibm.com/infocenter/systems/scope/hw/topic/iphbf/attachmounting7031.htm>).
6. **Install the expansion unit onto the rails.** For details, see Installing the 5786, or 7031-D24 on the rail assembly (<http://publib.boulder.ibm.com/infocenter/systems/scope/hw/topic/iphbf/install7031.htm>).
7. **Cable the expansion unit to the server:**

Review your specific system configuration and use one of the following procedures to install your expansion units:

- To connect to a system with the AIX[®] operating system, see Connect to a system with the AIX operating system (<http://publib.boulder.ibm.com/infocenter/systems/scope/hw/topic/ipham/configaixscsienclosure.htm>).
- To connect to a system in an AIX clustered environment, see Connecting and configuring the SCSI disk-drive enclosure in an AIX clustered environment (<http://publib.boulder.ibm.com/infocenter/systems/scope/hw/topic/ipham/clusteredscsienclosure.htm>).
- To connect to a system with the Linux[®] operating system, see Connect and configure the disk drive enclosure in a system with the Linux operating system (<http://publib.boulder.ibm.com/infocenter/systems/scope/hw/topic/ipham/scsidiskdriveenclosurelinux.htm>).
- To connect to a system with the IBM i operating system, see Connect and configure the enclosure in a system with the IBM i operating system (<http://publib.boulder.ibm.com/infocenter/systems/scope/hw/topic/ipham/scsidiskdriveenclosurei5.htm>).

Note:

- This unit uses SCSI cables to connect to the server.
- For certain situations the server must be shut down (powered off) in order to add expansion units. For details, see Expansion units (<http://publib.boulder.ibm.com/infocenter/systems/scope/hw/topic/ipham/expansionunit.htm>).
- For additional information related to installing 5786, 5787, 7031-D24, and 7031-T24 expansion units, see 5786, 5787, 7031-D24, or 7031-T24 SCSI disk-drive enclosure (<http://publib.boulder.ibm.com/infocenter/systems/scope/hw/topic/ipham/scsidiskdriveenclosure.htm>).

Appendix. Notices

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Electronic emission notices

Class A Notices

The following Class A statements apply to the IBM servers that contain the POWER6 processor.

Federal Communications Commission (FCC) statement

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.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. IBM is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Industry Canada Compliance Statement

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

Avis de conformité à la réglementation d'Industrie Canada

Cet appareil numérique de la classe A respecte est conforme à la norme NMB-003 du Canada.

European Community Compliance Statement

This product is in conformity with the protection requirements of EU Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility. IBM cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the fitting of non-IBM option cards.

This product has been tested and found to comply with the limits for Class A Information Technology Equipment according to European Standard EN 55022. The limits for Class A equipment were derived for commercial and industrial environments to provide reasonable protection against interference with licensed communication equipment.

European Community contact:
IBM Technical Regulations
Pascalstr. 100, Stuttgart, Germany 70569
Tele: 0049 (0)711 785 1176
Fax: 0049 (0)711 785 1283
E-mail: tjahn@de.ibm.com

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声 明

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Declaration: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may need to perform practical action.

Electromagnetic Interference (EMI) Statement - Taiwan

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IBM Taiwan Contact Information:

台灣IBM 產品服務聯絡方式：
台灣國際商業機器股份有限公司
台北市松仁路7號3樓
電話：0800-016-888

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Germany Compliance Statement

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Verantwortlich für die Konformitätserklärung nach des EMVG ist die IBM Deutschland GmbH, 70548 Stuttgart.

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