



### **QLogic 8 Gb FC Single-Port and Dual-Port HBAs for IBM System x**

Before you use this information and the product it supports, read the "IBM Statement of Limited Warranty" in the *QLogic 8 Gb FC Single-Port and Dual-Port HBAs for IBM System x Installation and User's Guide* in the Documentation folder on the *QLogic 8 Gb FC Single-Port and Dual-Port HBAs for IBM System x Support CD* (the support CD) that comes with the host bus adapter.

The host bus adapter complies with Federal Communications Commission (FCC) Class A limits. For more information, see "Electronic emission notices" in the *Installation and User's Guide* in the Documentation folder on the support CD.

This *Quick Installation Guide* provides information about installing and configuring the QLogic 8 Gb FC Single-Port or Dual-Port HBA for IBM® System x™. For more information, see the *Installation and User's Guide*.

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#### **Hardware and software requirements**

The server in which you install the host bus adapter must have the following minimum hardware and software:

- An available PCI Express (PCIe) slot
- One of the following operating systems:
  - Microsoft® Windows® Server 2003, Advanced Server, or Enterprise Edition or Microsoft Windows Server 2008
  - Red Hat® Enterprise Linux® version 4 or Red Hat Enterprise Linux version 5
  - SUSE Linux Enterprise Server version 9 or SUSE Linux Enterprise Server version 10

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#### **Option package contents**

The host bus adapter option package contains the following items. If any items are missing or damaged, contact your place of purchase.

- One of the following host bus adapters:
  - QLogic 8 Gb FC Single-Port HBA for IBM System x
  - QLogic 8 Gb FC Dual-Port HBA for IBM System x
- One low-profile expansion-slot bracket
- This *Quick Installation Guide*
- One *QLogic 8 Gb FC Single-Port and Dual-Port HBAs for IBM System x Support CD* (includes the *Installation and User's Guide* and the *Safety Information* documents)
- One Safety Information pamphlet

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## Installing the host bus adapter

### Statement 1:



### DANGER

Electrical current from power, telephone, and communication cables is hazardous.

To avoid a shock hazard:

- Do not connect or disconnect any cables or perform installation, maintenance, or reconfiguration of this product during an electrical storm.
- Connect all power cords to a properly wired and grounded electrical outlet.
- Connect to properly wired outlets any equipment that will be attached to this product.
- When possible, use one hand only to connect or disconnect signal cables.
- Never turn on any equipment when there is evidence of fire, water, or structural damage.
- Disconnect the attached power cords, telecommunications systems, networks, and modems before you open the device covers, unless instructed otherwise in the installation and configuration procedures.
- Connect and disconnect cables as described in the following table when installing, moving, or opening covers on this product or attached devices.

#### To Connect:

1. Turn everything OFF.
2. First, attach all cables to devices.
3. Attach signal cables to connectors.
4. Attach power cords to outlet.
5. Turn device ON.

#### To Disconnect:

1. Turn everything OFF.
2. First, remove power cords from outlet.
3. Remove signal cables from connectors.
4. Remove all cables from devices.

**Note:** Installing the host bus adapter in a server with an Intel® 64-bit processor (IA-64) is not supported.

To install the host bus adapter in the server, complete the following steps:

1. Read the *Safety Information* document on the support CD.
2. Turn off the server and peripheral devices, disconnect the power cords, and remove the server cover.
3. Determine which PCI Express (PCIe) slot (x8) you will use. For information about the slot type and specification, see the server documentation.
4. Remove the expansion-slot cover by removing the expansion-slot screw or releasing the bracket lever.
5. Remove the host bus adapter from the static-protective package. Do not place the host bus adapter on the server cover or on a metal surface.
6. If you have to remove the preinstalled expansion-slot bracket and replace it with the low-profile bracket, complete the following steps; otherwise, go to step 7 on page 3.
  - a. Remove each SFP module from the host bus adapter. A dual-port host bus adapter has two SFP modules. For more information, see the *Installation and User's Guide*.
    - 1) Unlock the SFP module latch by pulling the wire tab outward 90°; then, grasp the wire tab and pull the SFP module out of the port.

- 2) Replace the protective cap on the SFP module and place the SFP module in a static-protective package.
- b. Use a small Phillips screwdriver to carefully remove the two screws from the bracket. Set the bracket aside for possible future use.
- c. Align the two screw holes on the low-profile bracket with the holes on the host bus adapter; then, attach the bracket to the host bus adapter, using the two screws that you removed in step 6b. Make sure that you do not slide the bracket past the ends of the grounding “finger” tabs on the SFP module cage.
- d. Reinstall each SFP module:
  - 1) Remove the SFP module from its static-protective package and remove the protective cap from the SFP module.
  - 2) Open the wire tab and insert the SFP module into the host bus adapter port until it clicks into place.
  - 3) Replace the protective cap on the SFP module.
7. Position the host bus adapter by aligning the PCIe connector with the PCIe slot on the system board. Insert the host bus adapter firmly into the connector.
8. Secure the host bus adapter to the server chassis with the expansion-slot screw, if you removed it in step 4 on page 2, or return the bracket lever to the closed position.

**Statement 3:**



**CAUTION:**

When laser products (such as CD-ROMs, DVD drives, fiber optic devices, or transmitters) are installed, note the following:

- 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 controls or adjustments or performance of procedures other than those specified herein might result in hazardous radiation exposure.



**DANGER**

Some laser products contain an embedded Class 3A or Class 3B laser diode. Note the following.

Laser radiation when open. Do not stare into the beam, do not view directly with optical instruments, and avoid direct exposure to the beam.

9. Remove the protective caps from the ends of an LC-LC fiber-optic cable and from each SFP module on the host bus adapter.
10. Connect one end of an LC-LC fiber-optic cable to the SFP module on the host bus adapter. Connect the other end to the Fibre Channel device.
11. Replace the server cover and reconnect the power cords.
12. Turn on all external Fibre Channel devices; then, turn on the server. To make sure that the host bus adapter is functioning correctly, check the LEDs on the front bracket of the host bus adapter. For more information about the host bus adapter LEDs, see the *Installation and User's Guide*.

The following information is displayed.

For a single-port host bus adapter:

QLogic Corporation  
QLE2560 PCI Fibre Channel ROM BIOS Version X.XX  
Copyright (C) QLogic Corporation 1993-2005 All Rights Reserved.  
www.qlogic.com

Press <Ctrl+Q> for Fast!UTIL

BIOS for Adapter 0 is disabled  
ROM BIOS not installed

For a dual-port host bus adapter:

QLogic Corporation  
QLE2562 PCI Fibre Channel ROM BIOS Version X.XX  
Copyright (C) QLogic Corporation 1993-2005 All Rights Reserved.  
www.qlogic.com

Press <Ctrl+Q> for Fast!UTIL

BIOS for Adapter 0 is disabled

BIOS for Adapter 1 is disabled

If the displayed information is not correct and you have verified that the host bus adapter is configured correctly, see the "Troubleshooting" chapter in the *Installation and User's Guide*.

13. Use one of the following methods to install the applicable device driver and update the host bus adapter BIOS code and NVRAM:
  - **(Preferred method)** Follow the procedures in Chapter 3, "Installing device drivers and using the QLogic SANsurfer Pro Utility to update BIOS code and NVRAM" in the *Installation and User's Guide*.
  - Follow the procedures in Chapter 4, "Using the flasutil utility (from a CD or diskette) to update BIOS code and NVRAM and device driver instructions" in the *Installation and User's Guide*.

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