

[Quick Start Guide]



Purchasers of OEM products should consult with the OEM for support.

Please feel free to contact your QLogic approved reseller or QLogic Technical Support at any phase of integration for assistance. QLogic Technical Support can be reached by the following methods:

Web <http://support.qlogic.com>

E-mail support@qlogic.com

The QLogic knowledge database contains troubleshooting information for the QLogic host bus adapters. Access the data base from the QLogic Support Web page, <http://support.qlogic.com>. Use the Support Center search engine to look for specific troubleshooting information.

Products Affected

Product Name	Part Number
QLA200	FL0210403
QLE220	EL0210402
QLA2310	FC2310401
QLA234x	FC5010409
QLA24xx	FC2410401
QLE2460	PX2510401
QLE2462	PX2510401
QLE2464	PX2610401
QLE2560	PX2810403
QLE2562	PX2810403
QLE2564	PX4810402

Quick Start Guide

Installation Instructions

This Quick Start Guide describes how to install and configure your new QLogic host bus adapter in four simple steps:

- [Step 1. Verify the Package Contents.](#)
- [Step 2. Install the Adapter Hardware.](#)
- [Step 3. Install the Adapter Driver](#)
- [Step 4. Install QConvergeConsole™.](#)



Keep the adapter in the antistatic bag until installation. The host bus adapter contains parts that can be damaged by electrostatic discharge (ESD). Before handling the host bus adapter, use standard methods to discharge static electricity. Place the host bus adapter on the bag when examining it. Retain the bag for future use.

Step 1. Verify the Package Contents

The QLogic host bus adapter is shipped with the following items:

- QLogic adapter
 - Low-profile bracket (not available in all models)
- For QLE25xx adapter low-profile bracket installation instructions, go to <http://driverdownloads.qlogic.com>. Click the plus sign (+) next to **QLogic Products**. In the table that appears, select **Fibre Channel Adapters**. In the second column, select the appropriate adapter. In the third column, select your operating system. Click the **Go** button. Installation instructions are in the Documentation section.



Step 2. Install the Adapter Hardware

To install the adapter hardware, you need to open the computer and locate the appropriate bus slot. If necessary, consult your computer system manual for instructions to remove the computer cover.

Follow these steps to install the adapter hardware:

1. Power off the computer and all attached devices such as monitors, printers, and external components.
2. Disconnect the power cable.
3. Remove the computer cover and find an appropriate empty bus slot.
4. Pull out the slot cover (if any) by removing the screw or releasing the lever.
5. Install the low-profile bracket (if required).
6. Grasp the adapter by the top edge and seat it firmly into the appropriate slot (see [Figure 1](#)).
7. Refasten the adapter's retaining bracket using the existing screw or lever.
8. Close the computer cover.

9. Plug the Fibre Channel cable into the adapter.
10. Plug in the power cable and turn on the computer.

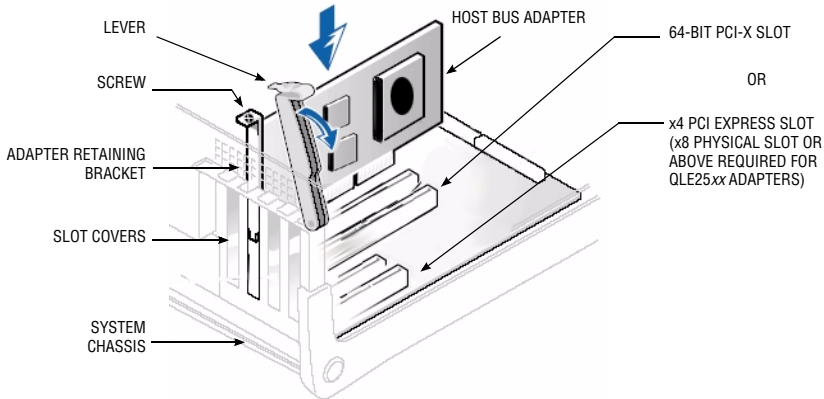


Figure 1. Illustration of Server Motherboard and Slots

Step 3. Install the Adapter Driver

To install the adapter driver:

1. Go to the QLogic Driver Downloads/Documentation page at <http://driverdownloads.qlogic.com>.
2. Click **QLogic Products**.
3. From the table at the bottom of the page, select **Fibre Channel Adapters**, the appropriate adapter model, and your operating system, and then click **Go**. The product download page opens.
4. On the download page under **Drivers**, select the appropriate driver and download it to your system.
5. Follow the instructions in the driver readme file for installing the downloaded driver.

Step 4. Install QConvergeConsole™

To install the QConvergeConsole web management interface:

1. Go to the QLogic Driver Downloads/Documentation page at: <http://driverdownloads.qlogic.com>.
2. Click **QLogic Products**.
3. From the table at the bottom of the page, select **Fibre Channel Adapters**, the appropriate adapter model, and your operating system, and then click **Go**. The product download page opens.
4. On the download page under **Management Tools**, select **QConvergeConsole** and download it to your system.
5. Follow the instructions in the QConvergeConsole readme file for installing the downloaded software.

Additional Resources

- To obtain the most current drivers, management tools, user instructions, and documentation, please visit the QLogic Web site at <http://driverdownloads.qlogic.com> and download the latest versions.
- For descriptions and procedures related to QConvergeConsole, use the built-in help system.
- The following sections contain additional information about the QLogic adapter, including the LED scheme, warranty, and laser safety information.

Adapter LEDs

Table 1. QLA2310/QLA200 Host Bus Adapter LED Scheme

Green LED	Yellow LED	Activity
Off	Off	Power off
On	On	Power
On	Off	Online
Off	On	Link
Off	Flashing	Loss of synchronization
Green and Yellow LEDs flashing alternately		Firmware error

Table 2. QLA234x/QLA210/QLE220 Host Bus Adapter LED Scheme

Green LED	Amber LED	Activity
Off	Off	Power off
On	On	Power
On	Off	Online
Off	On	Link
Off	Flashing	Loss of synchronization
Alternate flashing	Alternate flashing	Firmware error
Flashing	Off	Beacon

Table 3. QLA24xx/QLE24xx Host Bus Adapter LED Scheme

Yellow LED	Green LED	Amber LED	Activity
Off	Off	Off	Power off
On	On	On	Power on (before firmware init)
Flashing	Flashing	Flashing	Power on (after firmware init)
Yellow, Green, and Amber LEDs flashing alternately			Firmware error
Off	Off	On/Flashing	Online, 1Gbps link / I/O activity
Off	On/Flashing	Off	Online, 2Gbps link / I/O activity
On/Flashing	Off	Off	Online, 4Gbps link / I/O activity
Flashing	Off	Flashing	Beacon

Table 4. QLE25xx Host Bus Adapter LED Scheme

Yellow LED (8Gbps)	Green LED (4Gbps)	Amber LED (2Gbps)	Activity
Off	Off	Off	Power off
On	On	On	Power on (before firmware init)
Flashing	Flashing	Flashing	Power on (after firmware init)
Yellow, Green, and Amber LEDs flashing alternately			Firmware error
Off	Off	On/Flashing	Online, 2Gbps link / I/O activity
Off	On/Flashing	Off	Online, 4Gbps link / I/O activity
On/Flashing	Off	Off	Online, 8Gbps link / I/O activity
Flashing	Off	Flashing	Beacon

Warranty

For warranty details, please check the QLogic Web site at <http://www.qlogic.com/Support/warranty.aspx>.

Laser Safety

FDA Notice

This product complies with DHHS Rules 21CFR Chapter I, Subchapter J. This product has been designed and manufactured according to IEC60825-1 on the safety label of laser product.

Class 1 Laser Product
Appareil laser de classe 1
Produkt der Laser Klasse 1
Luokan 1 Laserlaitte

Caution—Class 1 laser radiation when open
Do not view directly with optical instruments

Attention—Radiation laser de classe 1
Ne pas regarder directement avec des instruments optiques

Vorsicht—Laserstrahlung der Klasse 1 bei geöffneter Abdeckung
Direktes Ansehen mit optischen Instrumenten vermeiden

Varoitus—Luokan 1 lasersäteilyä, kun laite on auki
Älä katso suoraan laitteeseen käyttämällä optisia instrumentteja

CLASS I LASER

Agency Certification QLogic Adapters

The following sections contain a summary of EMC/EMI test specifications performed on the QLogic host bus adapters to comply with radiated emission, radiated immunity, and product safety standards.

EMI and EMC Requirements

FCC Part 15 compliance: Class A (QLE236xx, QLA24xx, QLA2xx, QLE2464, QLE2xx, QLE25xx), Class B (QLA23xx, QLE24xx)

FCC compliance information statement: 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.

ICES-003 compliance: Class A (QLE236xx, QLA24xx, QLA2xx, QLE2xx, QLE2464, QLE25xx), Class B (QLA23xx, QLE24xx)

- For QLE236xx, QLA24xx, QLA2xx, QLE2xx, QLE2464, and QLE25xx adapters: This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.
- For QLA23xx and QLE24xx adapters: This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CE Mark 89/336/EEC EMC Directive compliance:

EN55022:1998/CISPR22:1997 - Class A (QLE236x, QLA2440, QLA246x, QLA2xx, QLE2xx, QLE2464, QLE25xx)
Class B (QLA23xx, QLE2440, QLE246x)

EN55024:1998
Immunity Standards
EN61000-4-2 : ESD
EN61000-4-3 : RF Electro Magnetic Field
EN61000-4-4 : Fast Transient/Burst
EN61000-4-5 : Fast Surge Common/ Differential
EN61000-4-6 : RF Conducted Susceptibility
EN61000-4-8 : Power Frequency Magnetic Field
EN61000-4-11: Voltage Dips and Interrupt
EN61000-3-2 : Harmonic Current Emission
EN61000-3-3 : Voltage Fluctuation and Flicker

VCCI compliance: Class A (QLE236x, QLA2440, QLA246x, QLE2xx, QLE2464, QLE25xx), Class B (QLA23xx, QLE2440, QLE246x, QLA2xx)

AS/NZS CISPR22 compliance: Class A (QLE236x, QLA2440, QLA246x, QLA2xx, QLE2xx, QLE2464, QLE25xx), Class B (QLA23xx, QLE2440, QLE246x)

CNS 13438 compliance: Class A (QLE236x, QLA2440, QLA246x, QLE2464, QLE25xx), Class B (QLA23xx, QLE2440, QLE246x)

- For QLE236x, QLA2440, QLA246x, and QLE2464 adapters

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.

警告使用者:
這是甲類的資訊產品，在居住的環境中使用時，
可能會造成射頻干擾，在這種情況下，
使用者會被要求採取某些適當的對策。

MIC compliance: Class A (QLA2310F, QLA2340, QLA2342, QLE236x, QLA24xx, QLE2xx, QLE2464, QLE25xx)
Class B (QLE24xx, QLA2xx)

- For QLA2310F, QLA2340, QLA2342, QLE236x, QLA24xx, QLE2xx, QLE2464, and QLE25xx host bus adapters: Korea MIC Class A Certified



Product Name/Model
Certification holder
Manufactured date
Manufacturer/Country of origin

Fibre Channel host bus adapter
QLogic Corporation
Refer to date code listed on product
QLogic Corporation/USA

A class equipment (Business purpose info/telecommunications equipment)	As this equipment has undergone EMC registration for business purpose, the seller and/or the buyer is asked to beware of this point and in case a wrongful sale or purchase has been made, it is asked that a change to household use be made.
--	---

- Korean Language Format— Class A

A급 기기 (업무용 정보통신기기)

이 기기는 업무용으로 전자파적합등록을 한 기기이오니
판매자 또는 사용자는 이 점을 주의하시기 바라며, 만약
잘못판매 또는 구입하였을 때에는 가장중요로 교환하시기
바랍니다.

- For QLE24xx and QLA2xx adapters: Korea MIC Class B Certified



Product Name/Model
Certification holder
Manufactured date
Manufacturer/Country of origin

Fibre Channel host bus adapter
QLogic Corporation
Refer to date code listed on product
QLogic Corporation/USA

B class equipment (Household purpose info/telecommunications equipment)	As this equipment has undergone EMC registration for household purpose, this product can be used in any area including residential area.
--	--

- Korean Language Format— Class B

B급 기기 (가정용 정보통신기기) 이 기기는 가정용으로 전자파적합등록을 한 기기로서 주거지역에서는 물론 모든 지역에서 사용할 수 있습니다.
--

Product Safety Compliance

UL, cUL product safety compliance: QLA23xx, QLE236x, QLA24xx, QLE24xx, QLA2xx, QLE2xx, QLE2464, QLE25xx

UL60950
CSA C22.2 No.60950
Class 1 Laser Product per DHHS 21CFR (J)

Complies with 21 CFR 1040.10 and 1040.11

Use only with listed ITE or equivalent.

73/23/EEC low voltage directive: QLA23xx, QLE236x, QLA24xx, QLE24xx, QLA2xx, QLE2xx, QLE2464, QLE25xx

TUV:
-EN60950-1:2001
-EN60825-1:1994+A1+A2
-EN60825-2:1994+A

© 2005–2011 QLogic Corporation. QLogic, the QLogic logo, and QConvergeConsole are trademarks or registered trademarks of QLogic Corporation. All other brands and product names are trademarks or registered trademarks of their respective owners. Information supplied by QLogic is believed to be accurate and reliable. QLogic Corporation assumes no responsibility for any errors in this brochure. QLogic Corporation reserves the right, without notice, to make changes in product design or specifications.



Corporate Headquarters

QLogic Corporation
26650 Aliso Viejo Parkway
Aliso Viejo, CA 92656
949.389.6000 www.qlogic.com

International Offices

UK | Ireland | Germany | France
India | Japan | China
Hong Kong | Singapore | Taiwan



FC0054505-00 F