



IBM BladeCenter support options expand with new selection of higher capacity QLogic products

Table of contents

2	Key prerequisites	5	Technical information
2	Planned availability date	7	Planning information
2	Description	7	Terms and conditions
4	Product number	8	Prices
5	Product-specific information	9	IBM Global Financing
10	Corrections		

At a glance

New QLogic 8 Gb Intelligent Pass-thru Module for IBM BladeCenter

IBM® is offering a 8 Gb version of the QLogic Intelligent Pass-thru Module which helps provide seamless interoperability to an external SAN fabric, primarily those utilizing the extended features from their SAN infrastructure provider. This product is ideal for those clients with existing SANs that want to integrate BladeCenter® cost-effectively; and without disruption to their existing SAN.

QLogic 20-port 8 Gb SAN Switch Modules

The QLogic 20-port 8 Gb SAN Switch Module is the latest Fibre Channel switching options for the IBM BladeCenter. This offering allows BladeCenter integration with any open-standards-based storage area network (SAN), whether it is an enterprise open-system fabric functionality utilizing the full-fabric mode or the module with transparent switching functionality utilizing the Intelligent Pass-Thru mode.

New IBM 8 Gb SFP+ Optical Transceiver

A short wave version to support the QLogic 8 Gb FC switch modules.

For technical support:

- Call the IBM Support Center at 800-IBM-SERV (426-7378)
or
- Request technical information via the Web site at
<http://www.ibm.com/pc/support>

Overview

QLogic 8 Gb Intelligent Pass-thru Module for IBM BladeCenter*

The QLogic Intelligent Pass-thru Module provides a fully interoperable solution for seamless integration of the Fibre Channel initiators to an existing fabric. The pass-thru module provides open, standards-based NPIV interface in IBM BladeCenter; it helps simplify SAN interoperability and scalability.

QLogic 20-Port 8 Gb SAN Switch Modules for IBM BladeCenter (44X1905)

QLogic 20-port 8Gb SAN Switch Module is a high-speed addition to the BladeCenter switch portfolio which helps enable scalability in SAN size and complexity while maintaining ease of management.

The QLogic 8 Gb SAN Switch Modules are full-fabric Fibre Channel Switches and are available in a 20-port active configuration, which enable high-performances up to 2, 4 and 8 Gb per second SAN solutions.

IBM 8 Gb Optical Transceiver for IBM BladeCenter (44X1964)

- IBM 8 Gb SFP+ Short Wave® Optical Transceiver

* Refer to the ServerProven® Web site for a list of supported adapters.

Warranty

One year, customer replaceable unit (CRU), limited warranty

For information on the IBM Statement of Limited Warranty, visit

http://www.ibm.com/servers/support/machine_warranties/

or contact your IBM representative or reseller.

Additional information

All offers are subject to availability. IBM reserves the right to alter product offerings and specifications at any time without notice. IBM is not responsible for photographic or typographic errors.

IBM makes no representation or warranty regarding third-party products or services.

Key prerequisites

IBM BladeCenter E, BladeCenter T, BladeCenter H, BladeCenter S, or BladeCenter HT chassis

Note: When the I/O module is installed in a BladeCenter T unit, the internal ports operate at up to 2 Gbps, and the external ports operate at speeds up to 8 Gbps. When the I/O module is installed in a BladeCenter HT unit, the internal ports operate up to 4 Gbps, and the external ports operate at speeds up to 8 Gbps.

Planned availability date

November 14, 2008

Description

BladeCenter continues to be a leader in the industry in delivering high levels of function and integration.

The QLogic module and switches support the BladeCenter E, BladeCenter T, BladeCenter H, BladeCenter S, and BladeCenter HT Chassis.

Note: When the I/O module is installed in a BladeCenter T unit, the internal ports operate up to 2 Gbps, and the external ports operate at speeds up to 8 Gbps. When the I/O module is installed

in a BladeCenter HT unit, the internal ports operate up to 4 Gbps, and the external ports operate at speeds up to 8 Gbps.

Key features

- Up to 20-port 8 Gb Fibre Channel Switch with 14 internal/midplane ports for server connectivity and six external/SFP enabled ports for target or fabric connectivity.
- QLogic Full Fabric Identity:
 - QuickTools/EFS software architecture
 - License key resident on switch to provide Intelligent Pass-thru Module capability
- Six external client-accessible F/FL/E, 2, 4, and 8 Gb autodetect SFP ports.
- 14 internal copper SERDES connections to the blade servers with F-port 2 Gb and 4 Gb autodetect speed types.
- Two internal full-duplex 100 Mbps Ethernet links connected respectively to the two redundant Management Modules for setup and management of the switch.
- All necessary power conversion and regulation to run from 12v continuous power.
- A method to identify switch bay position and chassis type for automatic firmware and GUI modifications.
- A set of diagnostics that run at power on and store progress so that it can be read by the Management Modules.
- An embedded CPU subsystem for location initialization and management.

The QLogic 8 Gb Intelligent Pass-thru Module:

- Eliminates E_Port Switch to switch incompatibility
- Utilizes N_Port ID Virtualization Standard to present initiators to fabric as N_Ports
- Is fully interoperable with all vendor fabrics and management applications available on BladeCenter
- Fully supports 2 Gb, 4 Gb initiators from QLogic
- Provides 14 server blade ports and six SFP-enabled fabric ports
- Is capable of attaching to multiple fabrics
- Combines multiple physical host IDs to present several hosts to the fabric on a single port within the Intelligent Pass-Thru Module

The QLogic 20-port 8 Gb SAN Switch Modules:

- Enable high-performance up to 2, 4, and 8 Gigabit-per-second SAN solutions
- Integrate transparent SAN switching capabilities to help reduce complexity and increase manageability with all existing SAN fabrics available on IBM BladeCenter
- Use Intelligent Pass-thru to eliminate E-port incompatibilities and provides properly scaled fabric management

IBM 8 Gb SFP+ SW Optical Transceiver

New 8 Gb SFP+ SW optical is being released in short wave version to support the QLogic 8 Gb FC switch modules.

Additional information

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Product number

Description	Part number
QLogic 8 Gb Intelligent Pass-thru Module for IBM BladeCenter	44X1907
QLogic 20-port 8 Gb SAN Switch Module for IBM BladeCenter	44X1905
IBM 8 Gb SFP+ SW Optical Transceiver	44X1964

New product structure:

The following are newly announced features associated with the following IBM BladeCenter Systems:

Description	Mach type	Model	Feature
8677-HC1	8677	HC1	
8852-HC1	8852	HC1	
8720-HC1	8720	HC1	
8730-HC1	8730	HC1	
8740-HC1	8740	HC1	
8750-HC1	8750	HC1	
QLogic 8Gb Intelligent Pass-thru Module for IBM			5482
QLogic 8Gb Intelligent Pass-thru Module for IBM in Bay 3			7065
QLogic 8Gb Intelligent Pass-thru Module for IBM in Bay 4			7066
QLogic 20-port 8Gb SAN Switch Module for IBM BladeCenter			5478
QLogic 20-port 8Gb SAN Switch Module for IBM BladeCenter in Bay 3			7061
QLogic 20-port 8Gb SAN Switch Module for IBM BladeCenter in Bay 4			7062
IBM 8 Gb SFP+ SW Optical Transceiver for IBM BladeCenter			5075

The following are newly announced features associated with the following IBM BladeCenter Systems:

Description	Mach type	Model	Feature
8852-HC1	8852	HC1	
QLogic 20-port 8 Gb SAN Switch Module in Bay 8			7063
QLogic 20-port 8 Gb SAN Switch Module in Bay 10			7064
QLogic 8 Gb Intelligent Pass-thru Module in Bay 8			7067
QLogic 8 Gb Intelligent Pass-thru Module in Bay 10			7068

The following are newly announced features associated with the following IBM BladeCenter Systems:

Description	Mach type	Model	Feature
8886-AC1	8886	AC1	
QLogic 20-port 8 Gb SAN Switch Module for IBM BladeCenter			5866
QLogic 8 Gb Intelligent Pass-thru Module for IBM BladeCenter			5868
IBM 8 Gb SFP+ SW Optical Transceiver			5056

Product-specific information

Product name

- QLogic 8 Gb Intelligent Pass-thru Module for IBM BladeCenter (44X1907)
- QLogic 20-port 8 Gb SAN Switch Module for IBM BladeCenter (44X1905)
- IBM 8 Gb SFP+ SW Optical Transceiver (44X1964)

Product-specific at a glance

QLogic 8 Gb Intelligent Pass-thru Module for IBM BladeCenter

Key features:

- Provides a flexible platform that accommodates multiple user needs
- Integrates transparent SAN switching capabilities to reduce complexity and increase manageability
- Combines multiple physical host IDs to present several hosts to the fabric on a single port on the switch

Announcement and availability dates

Announce date	Planned availability date
October 21, 2008	November 14, 2008

Technical information

Physical specifications

Approximate height: 29.5 mm (1.16 in)
Approximate width: 118.1 mm (4.65 in)
Approximate depth: 276.4 mm (10.88 in)

Operating environment

Temperature and altitude:

- Operating:
- 10° to 52° C (50° to 125.6° F) at an altitude of 0 to 914 m (0 to 3,000 ft)
 - 10° to 49° C (50° to 120.2° F) at an altitude of 0 to 3 000 m (0 to 10,000 ft)

- Non-operating:
- 40° to 65° C (-40 to 149 F) at an altitude of 0 to 12 000 m (0 to 39,370 ft)

Humidity:

- Operating: 8% to 80%, noncondensing
Non-operating: 5% to 80%, noncondensing

Agency approvals

Safety Certifications

- US: UL 60950-1 Listed Accessory Report
- Canada: CAN/CSA C22.2 No. 60950-1-03
- IEC 60950-1/EN 60950-1 CB Report and Certificate)

- GOST R IEC 60950-2002 is voluntary and is routinely requested by IBM-Russia to facilitate importation.

EMC/EMI Certifications

- FCC - Title 47 CFR Part 15 Subpart B
- Canada - ICES-003
- Australia/New Zealand - C-Tick - AS/NZS CISPR 22
- CE Mark - EN55022:1998+A2:2003 and EN55024:2006
- VCCI - Japan VCCI April 2003
- MIC Notice No. 2001-115 and No. 2001-116 (Korea)
- GOST 29216-91 (Russia)
- CISPR 22 Class A
- Taiwan BSMI " CNS 13438
- Turkey Communique No. 2004/9 and No. 2004/22
- Saudi Arabia - EMC.CVG, 28 October 2002
- China - GB 9524:1998

Energy Star compliance

Is this product Energy Star compliant? No

Note: The Energy Star emblem does not represent EPA endorsement of any product or service.

Hardware requirements

IBM Systems: The IBM 8 Gb Intelligent Pass-thru Module, part number 44X1907, is supported on the following IBM platforms.

System name	BladeCenter	Machine type	8677
	BladeCenter T		8720/8730
	BladeCenter H		8852
	BladeCenter HT		8740/8750
	BladeCenter S		8886/7779

QLogic 20-port SAN Switch Module (44X1905).

Non-IBM Systems: The IBM QLogic Pass-thru Module is supported on the following non-IBM platforms.

Software requirements

None; uses the BC operating system.

Compatibility

Use with BladeCenter Blade Server systems.

Supported with 8677, 8852, 8720, 8730, 8740, 8750 and 8886 blade systems.

Note: Some configurations may not be compatible.

Limitations

None

Planning information

- Additional cable orders required: No
- Approximate installation time: 10 min.

Packaging

One box

- Single box (HxDxW): 121 mm (4.75 in.) x 349 mm (13.75 in.) x 171 mm (6.75 in.)
- Weight: 1.1 kg (2.375 lb)

Shipment group

- QLogic 8 Gb Intelligent Pass-thru Module (44X1907)
- Support CD
- Important Notices flyer

Security, auditability, and control

Security and auditability features of this product are:

- This product uses the security and auditability features of the host hardware, software, and application software.

Terms and conditions

IBM direct terms and conditions

Features and options only

Field Installable	Yes
Customer Setup	Yes
warranty Period*	1 year*
Service Type (CCE/CCR/CRU)	CRU
Maintenance Agreement	No
Optional Upgrade	No
Licensed Programs	No

Note: Programs included with this product are licensed under the terms and conditions of the License Agreements that are shipped with the feature or option. All other terms and conditions are the same as those applicable to the IBM machine type in which the feature is installed.

* To obtain copies of the IBM Statement of Limited Warranty, contact your reseller or call IBM. In the United States, call 800-IBM-SERV (426-7378), or write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept JDJA/B203.

Licensed Machine Code

IBM machine code is licensed for use by a customer on the IBM machine for which it was provided by IBM under the terms and conditions of the IBM License Agreement for Machine Code, to enable the machine to function in accordance with its specifications, and only for the capacity authorized by IBM and acquired by the customer. You can obtain the agreement by contacting your IBM representative or visiting

http://www-1.ibm.com/servers/support/machine_warranties/machine_code.html

IBM may release changes to the machine code. IBM plans to make the machine code changes available for download from the IBM BladeCenter technical support Web site.

<http://www-304.ibm.com/systems/support/>

If the machine does not function as warranted and your problem can be resolved through your application of downloadable machine code, you are responsible for downloading and installing these designated machine code changes as IBM specifies. If you would prefer, you may request IBM to install downloadable machine code changes; however, you may be charged for that service.

Help and service information - Features and options

During the warranty period, support for a warranty related issue can be obtained by accessing IBM's online services (requires internet access account, not included) or calling the IBM Support Center at 800-IBM-SERV (426-7378), 24 hours a day, 7 days a week, to answer any questions regarding your new IBM option. Response time will vary depending on the number and nature of calls received. If you need warranty service, return or exchange is available. In addition, if your IBM option is installed in an IBM computer, you may be entitled to service at your location. For general questions related to the use of your options, fee-based support is available. Your technical support representative can help you determine the best alternative.

Accessing IBM online services

- IBM Web site at
<http://www.ibm.com/>

Placing the call to IBM

Use one of the following numbers when calling IBM for technical support:

- Within the United States, call the IBM Support Center at 800-IBM-SERV (426-7378).
- Within Canada
 - For support, call HelpPC at 800-565-3344.
 - For more information or to place an order, call 800-465-7999.

Prices

For current prices, contact IBM at 888-Shop-IBM (746-7426) or visit

<http://www-03.ibm.com/systems/x/>

Product charges

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IBM Global Financing

IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit

<http://www.ibm.com/financing>

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<http://www.ibm.com/legal/us/en/>

For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

<http://www.ibm.com/planetwide/us/>

Corrections

(Corrected on October 22, 2008 to remove machine type-model 8886-HC1 from the features support listings.)