



## QLogic Virtual Fabric Extension Module for IBM BladeCenter

First 'in-chassis' BladeCenter FCoE Solution



*QLogic Virtual Fabric Extension Module*



*IBM® BladeCenter® H  
High performance*

**BladeCenter chassis equipped with  
the BNT 10GE Switch Modules**

The data center is evolving and converging—where higher speed networking is enabling communications between all IT resources, including compute, storage, clients, voice, LAN and internal and external clouds. As the data center is becoming a virtual set of networked resources and intelligent converged fabrics, QLogic's FCoE solutions are at the center of this convergence, allowing data center managers to combine the lossless features of Fibre Channel with the ubiquitous connectivity of Ethernet. FCoE will become one of the important technologies associated with cost containment and modernization initiatives for IT infrastructures over the coming years. And QLogic is at the forefront of this technology, being the first to bring FCoE solutions to the marketplace.

### Virtual Fabric Extension Module

QLogic provides industry leading hardware and software solutions for the network backbone of many of today's leading companies. The QLogic Virtual Fabric Extension Module is a critical part of IBM's first 'in-chassis' Fibre Channel over Ethernet solution. When paired with the BNT 10GE Switch Module, it provides the Fibre Channel Forwarder (FCF) piece of the overall solution, stripping the IP part from the FC part in the CEE packet. It then sends the FC packet out to either the SAN FC fabric or any FC Storage to which it may be attached.

## QLogic Virtual Fabric Extension Module for IBM BladeCenter

## For IBM BladeCenter environments, there is no better choice than QLogic.

The Virtual Fabric Extension Module, when matched with the BNT 10GE Switch Module provides IBM with it's first 'in-chassis' FCoE solution, eliminating the need for and cost of an external Top of Rack (ToR) FCoE switch. The easy-to-install module provides the key component to the full FCoE solution, the Fibre Channel Forwarder (FCF). Its four internal ports attach to four ports of the BNT Switch Module to provide the BladeCenter with 6 ports of SAN connectivity and the BNT switch provides 6 ports of IP connectivity.

The QLogic Virtual Fabric Extension Module (and BNT 10GE Switch Module) provides 6 external FC connections between BladeCenter servers with QLogic's 2-port CNA CFFh Expansion Cards and external SAN fabrics and FC devices.



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## QLogic Virtual Fabric Extension Module for IBM BladeCenter

<b>Part Number</b>	46M6172
<b>Weight</b>	2.05 Lbs
<b>Dimensions</b>	1.16" x 4.65" x 10.88" (H x W x D)
<b>Power usage</b>	TBD
<b>Ports</b>	4 internal/6 external FC
<b>Form Factor</b>	BladeCenter Slot 3 and/or 5
<b>Data Rate</b>	8/4/2 Gb auto-negotiate
<b>Configurable modes</b>	Full fabric mode (external E_Port) or Transparent mode (external N_Port)
<b>BladeCenter product support</b>	Must be deployed with BNT 10GE Switch Module for IBM BladeCenter in BladeCenter H only
<b>Media Type</b>	Hot pluggable, industry standard SFP+
<b>Supported servers</b>	See the IBM ServerProven® Page for the latest supported servers <a href="http://www.ibm.com/servers/eserver/serverproven/compat/us">http://www.ibm.com/servers/eserver/serverproven/compat/us</a>
<b>Limited warranty</b>	1-year limited warranty, or when installed in an IBM BladeCenter® Server these cards assume your base warranty and any ServicePac® upgrade

## Benefits of IBM BladeCenter

- Best in class energy efficiency: 35% more efficient than rack servers
- Ultra density platform, 31% more than competitive products and 2x the density of 1U rack servers
- Innovative design reduces cabling up to 80% compared to rack servers
- Open and easy management tools to deliver advanced, proactive management
- Light path diagnostics provide a quick and easy guide to troubleshoot your blade servers and help provide higher availability
- Highly integrated IT infrastructure simplifies the deployment, provisioning and management of servers as well as network and storage switched fabrics
- "Virtualize everything" for a more flexible, better utilized, and lower cost IT infrastructure

## Product Part Numbers

Model	Marketing Part Number (OPT)	
	IBM	QLogic
QLogic Virtual Fabric Extension Module for IBM BladeCenter	46M6172	BRF-8200E-09

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<http://www.qlogic.com/go/IBM>

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