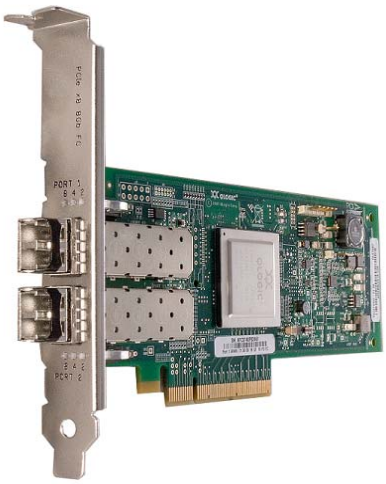
Next-generation Fibre Channel Host Bus adapters

QLogic® 8Gb Fibre Channel Host Bus Adapters for System x®



Highlights

- *Power, Security,& Virtualization optimized 8Gb Fibre Channel Single & Dual Port HBA Offerings*
- *Up to double the performance of 4Gb Fibre Channel with up to 1600 MBps (full-duplex) transfer rates attainable*
- *Half height full length PCI Express x8 with broad System x ServerProven® Support*
- *Protects your current fabric investment by providing backward compatibility with 8/4/2Gbps auto-negotiation*
- *Leverages Next generation PCI Express (PCIe) 2.0 (PCIe 1.0a compatible)*

The single and dual port QLogic 8Gb Fibre Channel Host Bus Adapters (HBAs) for System x are the latest generation in high speed network connectivity. This latest technology offers up to double the previously attainable data transfer rate.

RAS Optimized

These Fibre Channel HBAs provide higher data integrity than previous generations by ensuring Overlapping Protection Domains (OPD) on both the control and data paths. It also utilizes Enhanced Hardware Assist Firmware Tracing (EHAFT), allowing more comprehensive debugging with standard drivers.

Power Optimized

Leveraging the latest in power management innovation, these 8Gb Fibre channel HBA offerings take advantage of QLogic's StarPower™ technology, helping to ensure power efficiency. StarPower technology offers dynamic and adaptive power management features such as power and bandwidth optimized intelligent PCI Express link training, low-power switching power supplies, and thermally efficient layout requiring lower airflows.

Security Optimized

The QLogic 8Gb Fibre Channel HBAs for System x enable SAN-level authentication (FC-SP), fabric level isolation (NPIV), and is capable of end-to-end data integrity (T10).

Virtualization Optimized

Allows multiple logical connections to share the same port. Each connection has its own recourses and the ability to be managed independently.

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Technical specifications

Model	QLogic Single Port 8GB Fibre Channel HBA for IBM System x	QLogic Dual Port 8GB Fibre Channel HBA for IBM System x
Part number	42D0501	42D0510
Feature Code	3578	3579
Power Consumption	5.5 Watts (typical) 4.2 Watts (with dynamic power mgmt.)	6.2 Watts (typical) 4.9 Watts (with dynamic power mgmt.)
Interface	SFP+ with LC-style connector	
Bus architecture	PCI-e 2.0 , backwards compatibility with PCI-e 1.0a	
Data rate	1600 MBps full-duplex	1600 MBps per port full-duplex
IOPS	200,000	200,000 per port
Boot Support	BIOS, FCode, UEFI, EFI	
Performance features	Virtualization, Power, RAS, Security, Management	
Supported servers	See the IBM ServerProven® Page for the latest supported servers http://www.ibm.com/servers/eserver/serverproven/compat/us/	
Operating systems	Microsoft Windows; Red Hat EL 5.2;Netware, VMWare	
Protocols	FCP-3-SCSI; FC-Tape (FCP-2)	
Standards supported	Enahnced Authentication (FC-SP), Data Integrity (T10) and Network isolation (NPIV)	
Form factor	Low profile form factor	
Dimensions	6.6” x 2.54”	6.6” x 2.54”
Limited warranty[2]	1-year limited warranty, or when installed in a System x Server these cards assume your systems base warranty and any ServicePac® upgrade	

Need more information?

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