

IBM 42D0510 Datasheet



IBM 42D0510 42D0516 QLogic 8Gb FC Dual-port HBA for System x
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The QLogic 8Gb FC Host Bus Adapters are PCI Express 2.0 x8 8Gb Fibre Channel adapters with SFP+ LC-style connectors . The adapters connect to SFP+ Multimode Fiber SR optical modules. These adapters support 8 Gbps per port maximum bidirectional throughput for high-bandwidth storage (SAN). The PCI Express low profile form factor adapter can be used in either a standard PCI Express slot or a low profile PCI Express slot.

QLogic 8Gb HBAs enable end-to-end SAN Solutions using 8 Gb Fibre Channel technology for System x servers. They provide the ability to build high-performance, highly available SANs and are easy to set up and integrate into existing SAN configurations.

These adapters take advantage of QLogic's StarPower technology, which provides energy-smart features. StarPower technology offers dynamic and adaptive power-management features such as power-optimized and bandwidth-optimized intelligent PCI-Express link training, low-power switching power supplies, and a thermally efficient layout that requires lower airflows.

Part number information

- 42D0501, 42D0507, 42D0502, 42D0503: QLogic 8Gb FC Single-port HBA

- 42D0510, 42D0516: QLogic 8Gb FC Dual-port HBA
- The part numbers for the QLogic 8Gb FC HBAs include the following items:
 - One QLogic adapter with one or two 8 Gb transceivers installed
 - Documentation package
 - 2U bracket

Features

The QLogic 8Gb FC host bus adapters have the following features:

- Based on the QLogic QLE2560 (single port) and QLE2562 (dual port) adapters
- Function at 8/4/2 Gbps (auto-negotiation)
- Persistent binding
- LUN masking
- 2,048 concurrent logins
- PCI Express 2.0 x8 compliance, backwards compatibility with PCI-e 1.0a
- Two (for Dual-port) or one (for Single-port) SFP+ with LC-style connectors
- Standard PCI Express card with low profile MD2 form factor
- Support for both standard and low-profile PCI-E slots

Specifications

The QLogic 8Gb FC host bus adapters have the following specifications:

- Data rate: 1600 MBps full duplex per port
- Performance: up to 200,000 IOPS per port
- Boot support: BIOS, FCode, UEFI, EFI
- Protocols: FCP-3-SCSI; FC-Tape (FCP-2)
- Standard supported: Enhanced Authentication (FC-SP), Data Integrity (T10) and Network isolation (NPIV)

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