

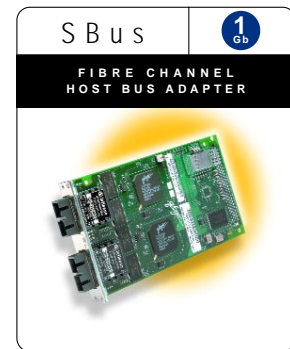
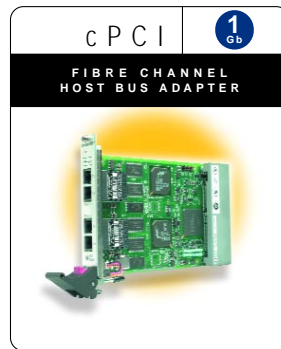
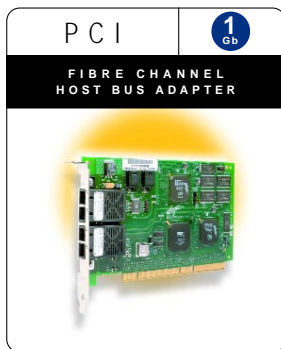


SANblade™

1Gb Fibre Channel Solutions:
PCI, CompactPCI and SBus Host Bus
Adapters

2200 SERIES

The SANblade 2200 Series is based on QLogic's award winning Fibre Channel architecture and is designed for performance in the Storage Area Network (SAN) environment. The 2200 Series provides all the benefits of Fibre Channel technology – fabric connections for hundreds of devices, bandwidth to 200MB/s (in full duplex) - in a highly integrated cost-effective package. With PCI, CompactPCI (cPCI), and SBus models, the high-performance 2200 Series supports SAN-enabled features, like F_port fabric login, full duplex, FC-tape and IP protocol, creating a powerful SAN connectivity solution.



- Single and Multi-Channel Models
- Standard Short Card and Low Profile MD2
- Supports up to 200MB/s Fibre Channel Data Transfer Rates (w/Full Duplex)
- FC-AL Private & Public Loop
- Fabric Attach via FL_port and F_port
- SCSI, IP and FC-Tape Profile Support
- Classes 2 and 3
- SCSI Initiator & Target Operation
- Copper, Fiber Optic and GBIC Models
- ACPI Power Management
- Robust Suite of Software Drivers

REAL-WORLD SCALABILITY. The SANblade 2200 Series supports key features that are critical to real-world application performance. The high-speed, on-chip RISC processor and high-level software interface enable the 2200 Series to complete multiple I/O operations without host intervention, creating the lowest CPU utilization of any SAN adapter on the market. The result is the ability to add multiple host adapters with linear performance increases, expanding the reach of your SAN with minimal hardware investment. To further boost performance, QLogic's configuration utility provides tunable parameters for application-specific needs, and our industry-leading Reduced Interrupt Operation (RIO) allows you to significantly reduce CPU interrupts per I/O.

SAN-ENABLED SOFTWARE SOLUTIONS. The SANblade 2200 Series is designed for maximum functionality in the SAN. Cutting-edge SAN utilities like QLogic SANsurfer™ Management Suite provide advanced capabilities for remote configuration and management, failover, load-

balancing and persistent binding. Enhanced software drivers include support for SAN-critical features including concurrent SCSI/IP and FC-tape. Plus, QLogic's unique software architecture simplifies integration, with an easy host software migration path between parallel SCSI and Fibre Channel application. The 2200 Series is far more than just hardware – it's a complete I/O solution.

PROVEN INTEROPERABILITY. QLogic ships more Fibre Channel controller solutions than any other supplier, and our I/O controllers connect every type of SAN end-node including hard disk and tape drives, RAID controllers, tape libraries, UNIX and NT servers, storage subsystems and video workstations. We're also driving the standard for SAN interoperability, with a full suite of OS drivers and extensive Fibre Channel testing in SAN environments. You can feel confident that a QLogic Fibre Channel connection is the right connection.





Applications

- Box-to-Box
- JBOD
- RAID
- Storage Area Networks [SANs]
- Data Warehousing
- Clustering
- Remote Backup
- Near or On-Line Storage
- Video Editing & CAD



Linux

Novell

SANblade
2200 SERIES1
Gb

TECHNICAL SPECIFICATIONS

SANblade 2200 Series

| | | | | | |
|---|---|-----------------|------------------|-----------------|-----------------|
| RISC RAM | 128 Kbytes per Fibre Channel Controller | | | | |
| Onboard Intelligence | Single chip engine includes integrated RISC processor, Fibre Channel Protocol manager, PCI DMA controller and 1Gb transceivers per Fibre Channel Controller | | | | |
| Onboard DMA Channels | Three independent DMA channels per Fibre Channel Controller, two data and one command | | | | |
| Frame Buffers | Integrated 4 Kbyte frame buffer FIFO for each data channel, GBIC models support optional external 16 Kbyte frame buffer per Fibre Channel Controller | | | | |
| Topology | FC-AL, Point-to-Point, Fabric | | | | |
| Fabric Support | FL_Port, F_Port | | | | |
| Class of Service | Class 2,3 | | | | |
| Transfers | Full Duplex | | | | |
| Protocols | SCSI, IP and FC-Tape, PCI boards support concurrent SCSI/IP | | | | |
| Host Bus | PCI Local Bus Specification 2.1; cPCI-Hot Swap Specification 2.1; SBus - IEEE 1496-1993 | | | | |
| Fibre Channel Data Transfers | Up to 200 MB/s per channel with Full Duplex | | | | |
| Power Consumption | | PCI-Copper | PCI-Optic | cPCI | SBus |
| | Single Channel | ~ 2 Watts | ~ 3.5 Watts | N/A | N/A |
| | Dual Channel | N/A | ~ 11 Watts | ~ 6.5 Watts | ~ 12 Watts |
| | Quad Channel | N/A | ~ 15 Watts | N/A | N/A |
| Form Factor | Standard Short Card PCI | Low Profile PCI | Full Length PCI | 3U CompactPCI | SBus |
| | 6.875" x 4.200" | 6.600" x 2.536" | 12.283" x 4.200" | 6.299" x 3.937" | 5.776" x 3.300" |
| Temperature | Operating: 0°C/32°F to 55°C/131°F Storage: -20°C/-4°F to 70°C/158°F | | | | |
| Humidity | Relative: 10% to 90% (non-condensing) Storage: 5% to 95% (non-condensing) | | | | |
| SANblade Manager™ HBA Management Software | Easy-to-use, Java-based configuration, diagnostic and analysis utility. Includes persistent binding and failover functionality. | | | | |
| SANblade Control FX | Wizard based utility provided for installation, configuration and diagnostic functions | | | | |
| Software Drivers | PCI HBAs: Windows NT, XP and 2000, Solaris SPARC, Linux and Novell NetWare cPCI and SBus HBAs: Solaris SPARC | | | | |

| | Media | GBIC Type | Ports | 64-Bit Bus | Form Factor | Bracket Size | Connector |
|--------------|------------------|-------------------------------------|------------|-------------|-----------------|--------------|---------------------------------------|
| QLA2200/33 | Copper | | One | 33MHz, PCI | Short Card | Standard | One external HSSDC Copper |
| QLA2200/66 | Copper | | | 66MHz, PCI | Short Card | | |
| QLA2200L/66 | Copper | | | 66MHz, PCI | Low Profile MD2 | Low Profile | |
| QLA2200F/33 | Multi-mode Optic | | | 33MHz, PCI | Short Card | Standard | |
| QLA2200F/66 | Multi-mode Optic | | 66MHz, PCI | Short Card | | | |
| QLA2202F/33 | Multi-mode Optic | | Two | 33MHz, PCI | Short Card | Standard | Two external SC duplex Multi-mode |
| QLA2202F/66 | Multi-mode Optic | | | 66MHz, PCI | Short Card | | |
| QLA2204F/66 | Multi-mode Optic | | Four | 66MHz, PCI | Long Card | Standard | Four external SFF Multi-mode optic LC |
| QLA2200G/66 | GBIC | Copper or Optical GBIC not included | One | 66MHz, PCI | Short Card | Standard | One external copper or optical GBIC |
| QLA2200GC/66 | GBIC | Copper included | | 66MHz, PCI | Short Card | | One external copper GBIC |
| QLA2200GF/66 | GBIC | Multi-mode Optic included | | 66MHz, PCI | Short Card | | One multi-mode GBIC |
| QLA2202FS | Multi-mode Optic | | Two | 25MHz, SBus | SBus | Standard | Two external SC duplex |
| QCP2202F/33 | Multi-mode Optic | | | 33MHz, cPCI | cPCI | | Two external SC duplex |



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