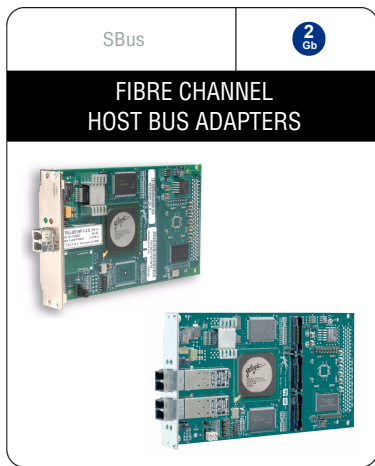




SANblade®

2-Gbps Fibre Channel (FC) to
SBus Host Bus Adapters (HBAs)

• QSB2340/
• QSB2342



Ease of Use

- Autonegotiation of Fibre Channel speed bit rate (1 Gbps or 2 Gbps)
- Easy detection of activities through an LED panel:
 - Power
 - Online
 - Signal acquired
 - Loss of synchronization
 - Firmware error
- Automatic topology detection
- Quick start guide
- Persistent binding

Superior Scalability

- Concurrent support for SCSI and IP protocols
- Load balancing for optimized performance
- Simultaneous initiator and target mode support
- Local and remote management

Enhanced Reliability

- Unique, single-integrated Fibre Channel controller for added reliability and optimum performance

• HBA and LUN level failover

• LUN masking

• Loopback and read/write buffer tests

Why QLOGIC? Designed as the optimum choice for Sun Microsystems servers implementing SBus, the QLogic SANblade QSB2340 and QSB2342 host bus adapters (HBAs) offer 2-Gbps Fibre Channel combined with 64-bit, 25-MHz SBus. This union provides the performance and interoperability needed for highly scalable storage area networks (SANs).

These multimode optic HBAs are specifically targeted for SUN enterprise servers in direct attach storage (DAS) as well as SAN environments.

Cost Effective. The QSB2340 is the right solution for the added boost in performance if you require a single port, 2-Gbps SBus HBA. If you want to maximize connectivity and optimize port density, the QSB2342, a dual channel version of the QSB2340, is the perfect fit.

Leading Single Chip Integration. The QSB2340/2342 uniquely integrates a RISC processor, a Fibre protocol engine, and transceivers into a single, efficient FC controller chip that increases reliability and performance by lowering CPU utilization.

Broad OEM Acceptance. The QSB2340/2342 HBA is validated by every major OEM including EMC and Sun. The QSB2340's extensive certification from major server and storage manufacturers makes it the perfect choice for multiplatform requirements.

Simplified Setup. Point-and-click installation and configuration wizards simplify the HBA setup process. Storage administrators can quickly deploy HBAs across a SAN using standard HBA management tools and device utilities. The QSB2340/2342 is also fully compatible with industry standard application programming interfaces (APIs), including SNIA HBA API and SMI-S, thereby allowing administrators to manage QLogic HBAs using third-party software applications.

Proven Architecture. The QSB2340/2342 architecture is the result of more than 15 years of progressive development and testing. Proven architecture from QLogic delivers higher overall reliability and enables advanced functionality with its single-chip integration, placing QLogic years ahead of its competitors. The QSB2340/2342 also has proven interoperability with all major software applications, hardware platforms, and operating systems.

The Bottom Line. Driving the standard for interoperability with extensive FC testing in SAN environments, you can feel confident in choosing the QLogic solution.



Host Bus Interface Specifications

Speed	64-bit, 25-MHz SBUS
Signal voltage	5.0 V bus supported
Compliance	SBUS Specification, IEEE std 1496-1993

Fibre Channel Specifications

Speed	200 MBps maximum at half-duplex, 400 MBps maximum at full-duplex
Topology	FC-AL, FC-AL-2, point to point, switched fabric (FL_Port and F_Port)
Class of service	Class 3 Fibre Channel service
Protocols	SCSI-FCP, IP, FC-TAPE
Buffer credits	For 512-byte frame size, 9 credits issued. For 2K-byte frame size, 3 credits issued.
Compliance	Second Generation FC Generic Services Definition (FC-GS-2), Third Generation FC Generic Services Definition (FC-GS-3), Fibre Channel-Physical and Signaling Interface (FC-PH), SCSI-3 Fibre Channel Protocol (SCSI-FCP), Fibre Channel-Arbitrated Loop-2 (FC-AL-2), Fibre Channel-Private Loop Direct Attach Technical Report (FC-PLDA), RFC 2625 IP and APR Over Fibre Channel, Fibre Channel Framing and Signaling (FC-FS)

Physical Specifications

Ports	One (QSB2340) Two (QSB2342)
Media	Multimode optic
Optics	Short wave laser
Connectors	LC-style duplex connector that supports non-OFC, multimode fibre optic cabling using a 2 × 5 fibre optic transceiver module.
Form factor	SBUS: 14.7cm × 8.4cm (5.8" × 3.3")
Bracket size	Standard size

Environment and Equipment Specifications

Temperature	Operating: 0°C/32°F to 55°C/131°F. Storage: -20°C/-4°F to 70°C/158°F
Airflow	0 lf/m
Humidity	Relative (noncondensing): 10% to 90%, Storage: 5% to 95%
Power dissipation	~ 9.0 watts
Cable	50/125µm multimode fiber, 62.5/125 µm multimode fiber
Cable distances	1 Gbps: 500 meters 50/125 µm fiber, 300 meters 62.5/125 µm fiber 2 Gbps: 300 meters 50/125 µm fiber, 150 meters 62.5/125 µm fiber

Agency Approvals—EMI and EMC

US	FCC Part 15, Class B
Canada	Industry Canada ICES-003, Class B
Europe	89/336/EEC EMC Directive CE Mark: EN55022: 1995 CISPR 22: 1997 Class B EN55024: 1998 EN61000-3-2:1995 EN61000-3-3:1995
Japan	VCCI, Class B
Australia/New Zealand	AS/NZS 3548 Class B

Tools and Utilities

Management tools	FC HBA Manager
Device utilities	Command line interface; configuration utility resident with FCode
Boot support	Solaris SPARC: FCode
APIs	SNIA HBA API V2, SMI-S, and FDMI
Operating systems	Solaris SPARC

Ordering Information

QSB2340	Ships to OEMs in an individually packed box
QSB2340-BK	Ships to OEMs in a bulk pack box in quantities of 20, 50, or 100
QSB2340-CK	Ships to authorized distributors and resellers in an individually packed box with the FC HBA Manager
QSB2342	Ships to OEMs in an individually packed box
QSB2342-BK	Ships to OEMs in a bulk pack box in quantities of 20, 50, or 100
QSB2342-CK	Ships to authorized distributors and resellers in an individually packed box with the FC HBA Manager



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