



iSR6260

Enterprise-Class Connectivity, Routing, and Services

Features

- TrueFlex™ architecture provides any-to-any protocol flexibility and connectivity
- Open fabric interoperability supports existing networks, SANs, and WANs
- Enterprise-class high availability (HA) design provides dual hot-swap power supplies and router blades for no single point of failure
- Future-proof modular design enables easy upgrades to more ports or new protocols
- Unmatched performance: 4Gb and 8Gb Fibre Channel ports deliver up to 3.2GBps throughput and over 400K IOPS
- Massive storage consolidation for 1,024 virtual machines using 2,048 iSCSI initiator support and 8,192 LUN support through dual-blade iSR6260 configuration
- Simultaneous support for iSCSI connectivity and SAN-over-WAN connection lowers the cost of storage consolidation and distance connectivity for dynamic reconfiguration (DR), and simplifies ongoing management
- Advanced installation and configuration wizards allow setup in fewer than 25 minutes
- Power efficient: uses as little as 210W for a fully-loaded configuration



Benefits

iSR6260 Fabric Routing Platform. The QLogic Intelligent Storage Router, iSR6260, based on our dual-blade TrueFlex architecture, is an intelligent, HA fabric routing and application hosting platform that enables multi-protocol routing, SAN-over-WAN extension, and support for data migration service. The Initiator Virtualization technology deployed in the iSR6260 provides storage consolidation for a large number of servers and virtual machines. The iSR6260 has a unique, dual-blade, HA architecture that provides best-in-class price, performance, and flexibility available for saving time, money, and management resources.

Fabric routing platform details include the following:

- **Bandwidth Aggregation for Blade Server Deployments.** Placing more servers into denser environments can push the infrastructure bandwidth to its limits. The iSR6260 with 4Gb and 8Gb Fibre Channel ports can aggregate Fibre Channel connectivity, allowing unimpeded server deployment through the Fibre Channel SAN without major disruptions to the fabric. The iSR6260 provides essential 8Gb performance for Fibre Channel to Fibre Channel data migration service.
- **iSCSI Host Connectivity for Fibre Channel Arrays and Devices.** The iSR6260 provides multi-protocol iSCSI connectivity to Fibre Channel SAN devices for higher storage consolidation and better utilization of SAN, significantly reducing connection costs and simplifying storage management.
- **Branch Office Data Consolidation and Centralized Management.** Data that reside in remote locations and branch offices create problems for backup, archiving, and regulatory compliance. Higher storage utilization and better return on investment (ROI) can be achieved by consolidating data in the data center. The file server at the remote office accesses SAN storage in the data center using both the iSCSI initiator in the file server host and the iSR6260.

True Flexibility and Ease-of-Use. The iSR6260 can simultaneously provide all of the functionality described in the preceding from a single device. A simple GUI allows IT managers to establish and configure connections for any operational mode.

ISR6260 Enterprise-Class Connectivity, Routing, and Services

6200 Configurations

ISR6260 Configuration SKUs

- 6260-C12-B (Chassis):
 - Includes one 6260 Blade, rail kit, two North America power cords, one RJ-45 to RS-232 adapter, and two 8Gb Fibre Channel SR SFP+
 - Maximum two blades per chassis
- 6260-B10-N (Blade):
 - Includes one 6260 Blade, one RJ-45 to RS-232 adapter, and two 8Gb Fibre Channel SR SFP+

Interface Specification per 6260 Blade

Gigabit Ethernet

- Two ports: copper 1000 Base-T, RJ-45
 - Full duplex, auto negotiating 100/1000 Mbps

Fibre Channel

- Four optical ports, full duplex
- Auto negotiation: 8Gbps, 4Gbps, 2Gbps
- N_Ports, NL_Ports, F_Ports, FL_Ports, Transparent ports for Fibre Channel over IP (FCIP)
- Class 2, 3 connectionless

Management Ports

- Ethernet 10, 100, 1000 Base-T with RJ-45
- RS-232 serial port with RJ-45

Product Features per Blade

- FCIP: 2 Gbps (4 Gbps aggregated over two blades) using two 1 GbE ports
- 140K IOPS (280K aggregated over two blades)
- 1 virtual LAN (VLAN) per Ethernet port
- 1,024 iSCSI hosts per blade
- 4,096 LUNs per blade
- 64 Fibre Channel target ports per blade

FCIP WAN Support

- Up to two FCIP routes per blade
- FCIP route through 1GbE ports¹
- Compression 1.5Gbps
- Up to 250 ms roundtrip delays

Supported SFP Types

- Shortwave (optical)

Interoperability

- Compatible with FC-SW-2 compliant switches
- Management interoperability with leading SAN management applications

Initiator Support

- Microsoft: Windows 2003, 2008
- Solaris: SPARC 2.6, 8, 9, 10, x86
- Linux: Red Hat AS 3, 4, 5 and SUSE Enterprise Server 8, 9, 10
- VMware: ESX Server v3.5x, v4.0x
- AIX¹: AIXL 5
- HP-UX: versions 10, 11iv2, 11iv3
- QLogic iSCSI: 4010, 4050, 4052, 4060, 4062
- Apple: OS X (with ATTO driver)

Device Management

Management Methods

- Wizard-based configuration tools
- Command line interface (CLI)
- SNMP and storage management initiative specification (SMI-S)¹

FRU Management

- Dual-blade configuration enables replacing a failed blade with a new one without requiring any reconfiguration of SAN, LAN, or ISR6260

Access Methods

- Two dedicated out-of-band (OOB) Ethernet 10, 100, 1000 Base-T, RJ-45 and RS-232 serial ports per blade

Diagnostics

- Power-on self-test (POST) of all functions except media modules

User Interface

- LED front panel indicators, CLI, and browser utilities

Mechanical and Power

Enclosure Type

- 1U, full rack width, mounting rails included

Dimensions

- Width: 431.8mm (17.00")
- Height: 44.5mm (1.75")
- Depth: 631.4mm (24.9")
- Weight: 12.7 kg (27.9 lbs)

Power Supply

- Dual, redundant, hot-swap power supplies
- 235W maximum, 200W typical
- 100 VAC to 240 VAC; 50 Hz to 60 Hz
- 1.9A at 100–125 VAC; 1.02A at 200–240VAC

Cooling

- Six redundant fans with back-to-front airflow

Protocols

- iSCSI to Fibre Channel protocol (FCP)
- FCIP
- CHAP security and authentication
- IPv6 and IPv4

Environmental and Safety²

Operating

- Temperature: +5C to +40C (41F to 104F)
- Altitude: 0 to +10,000 feet

Non-Operating

- Temperature: -40C to +70C (40F to 158F)
- Altitude: 0 to +50,000 feet

Agencies

- Safety Standards: UL 60950 (USA), CSA 2.2 No. 60950 (Canada), EN 60950 (EC), CB Scheme-IEC 60950, FCC Class A, Industry Canada IECS-003 Class-A, CISPR22:1997 (3rd Edition, Class-A International), VCCI Approval to V.3 (Japan), ACA C-Tick Approval to AS/NZS 3548 (Australia/New Zealand), RPL Certification (Korea), Class 1 Laser Product per DHHS 21 CFR(J) and IEC 680825
- Environmental: RoHS, WEEE

¹ Future product release.

² For more information, go to www.qlogic.com.



Corporate Headquarters QLogic Corporation 26650 Aliso Viejo Parkway Aliso Viejo, CA 92656 949.389.6000 www.qlogic.com
 Europe Headquarters QLogic (UK) LTD. Quatro House Lyon Way, Frimley Camberley Surrey, GU16 7ER UK +44 (0) 1276 804 670

© 2010 QLogic Corporation. Specifications are subject to change without notice. All rights reserved worldwide. QLogic and the QLogic logo are registered trademarks of QLogic Corporation. Apple is a registered trademark of Apple, Inc. AIX is a registered trademark of International Business Machines Corporation. Linux is a registered trademark of Linus Torvalds. Microsoft and Windows are registered trademarks of Microsoft Corporation. Red Hat is a registered trademark of Red Hat, Inc. Solaris is a registered trademark of Sun Microsystems, Inc. SPARC is a registered trademark of SPARC International, Inc. in the USA and other countries. VMware is a registered trademark of VMware, Inc. All other brand and product names are trademarks or registered trademarks of their respective owners. Information supplied by QLogic Corporation is believed to be accurate and reliable. QLogic Corporation assumes no responsibility for any errors in this brochure. QLogic Corporation reserves the right, without notice, to make changes in product design or specifications.