

BROCADE Mi10K DIRECTOR



STORAGE AREA NETWORK

Taking Enterprise Storage Networking to the Limit

HIGHLIGHTS

- The right performance for any need, with 1/2/4/10 Gbit/sec transfer rates
- Simplifies networks with deterministic performance and 256 ports
- Enables safe and effective consolidation efforts with SAN LPARs™ and OPEN VSAN technology
- Advanced security and diagnostic tools to reduce risk and increase uptime
- Supports FICON® and Fibre Channel protocols
- Interoperable with equipment from other vendors
- Supports business continuity with link distances greater than 190km at 10 Gbit/sec

Today's enterprise SANs are growing exponentially. To reduce costs and make the best use of storage equipment, companies must consolidate and simplify vast and diverse storage networking environments. The Brocade® Mi10K Director meets this task, providing the most capable, flexible and robust switching solution available for enterprise environments. With the Brocade Mi10K, companies can now securely and efficiently consolidate very large, diverse and geographically distributed networks. The Brocade Mi10K offers up to 256 1/2/4 and 10 Gbit/sec I/O ports in a compact, 14 RU height chassis. The Brocade Mi10K is the highest performance SAN switching device available today.

WHAT'S NEW IN THE BROCADE Mi10K

Enterprises around the world are already relying on the unequalled features and functionality of the Brocade Mi10K. With the Brocade Mi10K, we have raised the bar for consolidation with new features and functionality that may be applied to all i10Ks back to SN1. The industry's best investment protection story has just gotten better.

Improved Performance: With the addition of 4 Gbit/sec performance, the Brocade Mi10K now offers 1/2/4/10 Gbit/sec throughput to meet varying application needs. Open Trunking allows companies to

further increase performance by balancing performance across under-utilized links.

Security: The Brocade Mi10K adds new features like Authentication and Radius Support, to lock down networks from accidental or malicious intrusions.

Manageability: Heterogeneous administration with Brocade EFCM release 9.0 reduces management costs by using a single, intuitive tool for all your network needs.

Availability: New advanced diagnostics catch problems before they occur.



BROCADE

MAXIMIZING SAN INVESTMENTS

Brocade and its partners offer complete SAN solutions to meet a wide range of technology and business requirements. These solutions include education and training, support, service, and professional services to help optimize SAN investments. For more information, contact an authorized Brocade sales partner or visit www.brocade.com.

BROCADE Mi10K DIRECTOR SPECIFICATIONS

Availability

99.999%

Hot-plug, redundant power supplies, fans, processors, switch cards

Hot-plug optics, port modules

Online diagnostics

HotCAT™ technology for online, non-disruptive firmware load and activation

*Port fencing

*Predictive optics monitoring

*Safe zoning mode

Supported Connectivity

Fibre Channel, FICON w/CUP

Compatibility

Fibre Channel Protocols	FC-PH, FC-PH-2, FC-PH-3, FC-GS-2, FC-GS-3, FC-FLA, FC-FG, FC-MI, FC-SW, FC-SW-2, 10GFC, FC-FS, FC-PI, FC-SB-2, FC-SB-3
-------------------------	--

Fibre Channel Element MIB	FE-MIB
---------------------------	--------

TCP/IP MIB-II Groups	System, Interface, Address Translation, IP, ICMP, TCP, UDP, SNMP
----------------------	--

Classes of Service	Class 2, Class 3, Class F
--------------------	---------------------------

Performance

Port Speed	1, 2, 4 and 10 Gbit/sec at full duplex
------------	--

*Open Trunking heterogeneous load balancing

RSCN filtering

Scalability

Ports per Chassis	256 ports
-------------------	-----------

*239 Fibre Channel domain addressing

Supported Optical Media

Media Type	Hot-plug, industry standard LC Small Form Factor
------------	--

2 Gbit/sec and 4 Gbit/sec

Shortwave	*150m (492 ft) at 4 Gbit/sec 300m (984 ft) at 2 Gbit/sec
-----------	---

Longwave	*4km (2.4 mi) at 4 Gbit/sec *10 km (6.2 mi) at 2,4 Gbit/sec 35km (21.7 mi) at 2 Gbit/sec 80km (49.7 mi) at 2 Gbit/sec
----------	--

Dist. w/Repeaters	Up to 100km (62 mi) at 4 Gbit/sec 10 Gbit/sec
Shortwave	82m (269 ft) with OM2 cable 300m (1,148 ft) with OM3 cable
Longwave	10km (6.2 mi) 35km (21.7 mi)
Dist. w/Repeaters	Up to 190km (117 mi)

Management Options

*Heterogeneous Enterprise Fabric Connectivity Manager (EFCM)

SNMP v1/2/3

CLI - Telnet, SSH, SSHv2

FICON Management Server (CUP)

Inband Management (OSMS)

RSCN Filtering

Virtual Director

SAN LPARs

*OPEN VSANS

Security

SAN LPAR hard partitioning

*Password Authentication

*Radius Support

*Security Log

*Log-in banner

*E/F port authentication

*CHAP authentication

*SSHv2

*IP ACLs

SSH

SSL

SNMP v3

Port, switch and fabric binding

Fabric Services

Simple Name Server

Management Server

Fabric Config Server

Unzoned Name Server

Fabric Zone Server

FICON CUP Server

Fabric Login Server

Fabric Controller

Domain Controller

Diagnostics

Power-on self test

Internal and external loopback

Online system health

*Fibre Channel ping

*Hot device detection

*Predictive optics

*Traceroute

BROCADE Mi10K DIRECTOR SPECIFICATIONS (CONTINUED)

*Global Name Services display

*Route table display

Serviceability

HotCAT™ (hot code activation technology)

Call-home, e-mail (with McDATA software)

FRU beaconing

Installation Options

Rack mountable, Brocade cabinet rack

Environmental

Non-operating temp 0° C to 60° C (32° F to 140° F)

Non-operating humidity 5%-80%

Max. non-operating altitude 12,192 m (40,000 ft.)

Operating temp 0° C to 40° C (32° F to 104° F)

Operating humidity 8%-80%

Max. operating altitude 3,048 m (10,000 ft.)

Physical Dimensions

Height 67.2 cm
(24.5 in. 14U)

Width 44.3 cm
(17.5 in.)

Depth 86.4 cm
(34 in.)

Weight 152.0 kg
(335 lbs.)

Electrical

Operating voltage 200-240 VAC

AMPs (max.) 12 AMPs @ 208 VAC

Heat output (max.) 8,533 BTU/hour

Watts (max.) 2500 Watts

Regulatory and Emissions

Meets safety and emission requirements CB, CE, ULcUL, UL AR+S, GS, GOST, NOM, AUS NZ, FCCA statement, Canadian statement, MIC mark, FCCI Demko

Corporate Headquarters

San Jose, CA USA
T: (408) 333-8000
info@brocade.com

European Headquarters

Geneva, Switzerland
T: +41 22 799 56 40
emea-info@brocade.com

Asia Pacific Headquarters

Singapore
T: +65-6538-4700
apac-info@brocade.com

© 2007 Brocade Communications Systems, Inc. All Rights Reserved. 01/07 GA-DS-1000-00

Brocade, the Brocade B-weave logo, Fabric OS, File Lifecycle Manager, MyView, Secure Fabric OS, SilkWorm, and StorageX are registered trademarks and the Brocade B-wing symbol and Tapestry are trademarks of Brocade Communications Systems, Inc., in the United States and/or in other countries. FICON is a registered trademark of IBM Corporation in the U.S. and other countries. All other brands, products, or service names are or may be trademarks or service marks of, and are used to identify, products or services of their respective owners.

Notice: This document is for informational purposes only and does not set forth any warranty, expressed or implied, concerning any equipment, equipment feature, or service offered or to be offered by Brocade. Brocade reserves the right to make changes to this document at any time, without notice, and assumes no responsibility for its use. This informational document describes features that may not be currently available. Contact a Brocade sales office for information on feature and product availability. Export of technical data contained in this document may require an export license from the United States government.



BROCADE