



NEW IBM SYSTEM STORAGE SAN64B-2 (2005-B64) UNIQUELY POSITIONED FOR PORT AGGREGATION AND CORE SWITCHING

The IBM System Storage SAN64B-2 (2005-B64) delivers the best performance and value in a 32-48-64-port SAN switch for organizations that want to consolidate or scale to larger port counts in fewer switches—with the option to scale on a “pay-as-you-grow” basis at a nominal cost. The reduced domain count and cabling complexity help improve administrator productivity, and 4 Gbit/sec Fibre Channel technology provides extremely high performance. The IBM System Storage SAN64B-2 (2005-B64) is an ideal solution as a core switch for organizations that do not require the full capabilities of a director-class switch, and as an edge switch in large data centers.

INTRODUCING THE NEW IBM SYSTEM STORAGE SAN18B-R (2005-R18) AND FC ROUTING BLADE FOR THE SAN256B-2 (2109-M48)

The The IBM System Storage SAN18B-R (2005-R18) and FC Routing Blade for the SAN256B-2 (2109-M48) enable organizations to derive more value from the SAN infrastructure by extending its reach across disparate SANs without the risk and downtime of merging them. Organizations can achieve this value whether the SANs reside in the same data center or in geographically disparate locations using FCIP or native Fibre Channel.

BROCADE DIFFERENTIATING FEATURES SUPPORT BUSINESS CONTINUITY

Brocade® ultra-high availability features address a variety of issues that can cause downtime for a SAN:

- **Hardware Failures:** Hardware redundancy provides 99.999 percent availability (includes non-disruptive control processor failover).
- **Maintenance:** Hot code activation causes zero-second data flow interruption and no dropped frames.
- **User Errors or Malicious Attacks:** Advanced Security enforces change control in the fabric to greatly reduce operator errors. Plus, SAN fabric and corporate data are protected from attacks that might cause downtime, data corruption, or data theft.
- **Catching Marginal Components:** The Fabric Watch health monitoring tool allows administrators to catch marginal components and error conditions before they become hard failures that cause downtime.

WHY CHOOSE BROCADE?

Market-Proven Technology: Brocade is the SAN infrastructure market leader with 52% share of the entire SAN switch market. With over 8 million SAN ports deployed in small, medium, and enterprise companies worldwide, Brocade-based SANs are proven to deliver increased storage utilization, reduced management costs, and highly available systems for business continuity.

Tailored Solutions: Brocade has the broadest product line that supports IBM networked storage solutions. Under the IBM System Storage brand, Brocade delivers simplified infrastructure for entry-level SANs requiring ease of use and pay-as-you-grow scalability as well as infrastructure for enterprise-level, larger SANs demanding high-availability and scalability. In addition, the Brocade SAN Switch Module for the IBM BladeCenter brings a higher level of SAN intelligence to the bladed server environment.

Compatibility: Brocade is IBM’s longest-standing Fibre Channel networking partner that sells its product under the IBM System Storage brand of SAN Switches and Directors. This strategic relationship ensures that Brocade-based products are tested, certified, and warranted by IBM to be compatible with all IBM server, storage, and solution offerings such as:

- **Server Lines:** System i, System p, System x, System z
- **Storage Virtualization:** SAN Volume Controller, SAN Integration Server, and SAN File System products
- **Enterprise Storage:** Both Fibre Channel and FICON support on DS8x00 products
- **Modular Storage:** The IBM System Storage DS family (formerly FASTT)
- **Storage Management:** Integrated into Tivoli SAN Manager for total storage area management

GENERAL INFORMATION

For technical or sales questions, send e-mail to: ibm-sales@brocade.com or in EMEA, ibm_emea_la@brocade.com

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QUICK REFERENCE GUIDE

IBM 1-4 GBIT/SEC SYSTEM STORAGE SAN SWITCH FAMILY

	2005-B16	2005-B32	2005-B64	2109-M48	FC ROUTING BLADE FOR THE 2109-M48	2005-R18	2109-A16
							
Brocade Product Name	SilkWorm 200E	SilkWorm 4100	SilkWorm 4900	SilkWorm 48000	FR4-18i	SilkWorm 7500	SilkWorm AP7420
Port Count	8-16	16-32	32-64	16-256 in a single domain	2 GigE/16 FC	2 GigE/16 FC	8-16 GigE/FC
Height	1U	1U	2U	14U	1 Slot in M48, max 2	1U	2U
Hardware (Standard)							
Power Supply	Single, Fixed	2 Hot Swappable	2 Hot Swappable	2-4 Hot Swappable	Requires 2 Additional Power Supplies in the 2109M48 Director (FC7840)	2 Hot Swappable	2 Hot Swappable
Fans	Fixed (3)	3 Hot Swappable	3 Hot Swappable	3 Hot Swappable		3 Hot Swappable	2 Hot Swappable
Other	200516B HVEC (Includes (8) 4 Gbit SWL SFPs)	200532B HVEC (Includes (16) 4 Gbit SWL SFPs)		2 Additional Power Supplies Option FC7840	Order FC3450		
Hardware (Optional)							
SWL and LWL SFPs	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ports on Demand	4 ports (Field/Plant Upgrade FC7515) 4 ports 8-11 (Field Upg. FC7515) 4 ports 12-15 (Field Upg. FC7515)	8 ports (Field/Plant Upgrade FC7514) 8 ports 16-23 (Field Upg. FC7510) 8 ports 24-31 (Field Upg. FC7511) 16 ports 16-31 (Field Upg. FC7513) 16 ports 16-31 (Plant Only FC7512)	16 ports (Field/Plant Upgrade FC7520)	N/A	N/A	N/A	8 ports (Field Upgrade FC7902) 8 ports (Plant Upgrade FC7901)
Other	1. 4Gbit/sec SWL & LWL SFP's 2. 2Gbit/sec SWL & LWL SFP's	1. 4Gbit/sec SWL & LWL SFP's 2. 2Gbit/sec SWL & LWL SFP's	1. 4Gbit/sec SWL & LWL SFP's 2. 2Gbit/sec SWL & LWL SFP's	1. 16 & 32 port 4Gbit/sec FC cards 2. Designed to support 16 port 2Gbit/sec cards from the M14. 3. Designed to support additional blades with Routing, IP, and Application capabilities	1. 4Gbit/sec SWL & LWL SFPs 2. 2Gbit/sec SWL & LWL SFPs	1. 4Gbit/sec SWL & LWL SFPs 2. 2Gbit/sec SWL & LWL SFPs	1. Tri-rate SW SFP (FC2110) 2. Tri-rate 10km LW SFP (FC 2120) 3. Extended Distance LW 35km SFP (FC 2335)
Software							
Fabric OS	Fabric OS v5.0.x	Fabric OS 4.x, 5.0x	Fabric OS 5.1.x	Fabric OS 5.0.x 5.1.x w/FC Routing Blade	Fabric OS 5.1.x	Fabric OS 5.1.x	XPath OS 7.x
Web Tools	Base	Base	Base	Base	Base	Base	Base
Advanced Zoning	Base	Base	Base	Base	Base	Base	Base
Fabric Watch	Optional FC7550	Base	Base	Base	Base	Base	Base
Full Fabric	Optional E-Port Activation (Plant FC7450; Field FC7451)	Base	Base	Base	Base	Base	Base
Performance Bundle (ISL Trunking, Advanced Performance Monitoring)	Optional FC7555	Optional FC7555	Optional FC7565	Base	Base	Optional FC7575	Exchange-Based Trunking in Base
Dynamic Path Selection	Base	Base	Base	Base	Base	Base	Base
Extended Fabrics	Optional FC7455	Optional FC7553	Optional FC7563	Optional FC7803	Optional FC7803	Base	Base
Advanced Security (Secure Fabric OS)	Optional FC7554	Optional FC7554	Optional FC7564	Optional FC7823	Optional FC7823	Optional FC7574	
FC Routing					Base with Fabric OS 5.1.x	Base with Fabric OS 5.1.x	Optional FC7903
FCIP				Order FC3450 and FC7827	Optional FC7827	Optional FC7579	Optional FC7904
NPIV		Base	Base	Base			
FICON		Yes	In process	Yes	In process	In process	
FICON CUP		Optional Single FC7530, Cascading FC7531	In Process	Optional Single FC7831, Cascading FC7833			
Hot Code Activation	Yes	Yes	Yes	Yes	Yes	Yes	
Other	EZSwitchSetup Wizard Performance Monitoring (FC7556), ISL Trunking (FC7557)	EZSwitchSetup Wizard Performance Monitoring (FC7556), ISL Trunking (FC7557)	Performance Monitoring (FC7566), ISL Trunking (FC7567)			Performance Monitoring (Optional FC7576), ISL Trunking (Optional FC7577)	FC Routing and FCIP Bundle (FC7905)
Fabric Management	Fabric Manager 5.x	Fabric Manager 4.x, 5.x • Unlimited Domains (Option FC#7551)	Fabric Manager 5.x	Fabric Manager 5.x		Fabric Manager 5.x	Fabric Manager 4.x, 5.x
Target Environment	<ul style="list-style-type: none"> • Entry • Workgroup • Department • Edge 	<ul style="list-style-type: none"> • Departments • High-performance edge • FICON 	<ul style="list-style-type: none"> • Enterprise Edge • Fabric Core Switch • FICON 	<ul style="list-style-type: none"> • Enterprise Core Director (up to 256 ports) • FICON 	<ul style="list-style-type: none"> • Consolidation • ILM • Business Continuity 	<ul style="list-style-type: none"> • Consolidation • ILM • Business Continuity 	<ul style="list-style-type: none"> • SAN consolidation • Infrastructure consolidation • Infrastructure migration
Customer Profile	<ul style="list-style-type: none"> • SMB SAN • Cost sensitive • High Availability • DAS to SAN migration 	<ul style="list-style-type: none"> • Workgroup • Midsize SAN • High Availability • Projected growth 	<ul style="list-style-type: none"> • Workgroup • Mid-Large Size SAN • High Availability • Projected Growth 	<ul style="list-style-type: none"> • Large Mission Critical SAN • High Availability • Future expandability to 10 Gbit/sec 	<ul style="list-style-type: none"> • Multiple SAN Islands • Multiple SAN Vendors • Consolidation • Distance 	<ul style="list-style-type: none"> • Multiple SAN Islands • Multiple SAN Vendors • Consolidation • Distance 	<ul style="list-style-type: none"> • Multiple SAN islands • Multiple SAN vendors • Consolidation