



# IBM Systems Storage SAN b-type switches now offer 8 Gbps LW SFP transceivers

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## At a glance

New features are available to extend the functionality of the IBM® System Storage™ SAN24B-4 Express, and SAN40B-4 models:

- The 8 Gbps 10 km Longwave (LW) Small Form Factor Pluggable (SFP) transceiver feature supports 2, 4, and 8 Gbps FC connections up to 10 km (6.2 miles)
- 8 Gbps 10 km LW SFP - 8-pack convenience package

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

## Overview

IBM System Storage SAN24B-4 Express, and SAN40B-4 8 Gbps SAN switches are designed to interconnect storage devices and servers in storage area networks (SANs). IBM is offering additional connectivity options by adding support for 8 Gbps longwave SFPs. The 8 Gbps 10 km Longwave (LW) Small Form Factor Pluggable (SFP) transceiver features have been added to the IBM Systems Storage b-type 8 Gbps SAN Switches and are designed to help increase performance and provide additional configuration options.

### *Feature exchange*

None

## Key prerequisites

The IBM Systems Storage SAN b-type switch family supports Fibre Channel connectivity for servers and storage.

The 8 Gbps SAN switches support all features and functions as indicated in this announcement and require Brocade Fabric Operating System (FOS) v6.1.1, or later.

For a list of supported servers and storage systems, refer to the [Technical information](#) section.

## Planned availability date

October 24, 2008

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## Description

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The following new SFPs are now available with the 8 Gbps capable SAN switches:

**8 Gbps 10 km LW SFP Transceiver (#2821/45W1216):** This optional feature provides a longwave 8 Gbps SFP fiber optic transceiver, and is designed to support 2, 4 or 8 Gbps Fibre Channel connections at distances up to 10 km (6.2 miles), while using the appropriate 9.0/125 micrometer single mode fiber optic cable.

**8 Gbps 10 km LW SFP Transceiver 8-Pack (#2828/45W1218):** This optional feature provides eight additional longwave 8 Gbps SFP fiber optic transceivers, and is designed to support 2, 4 or 8 Gbps Fibre Channel connections at distances up to 10 km (6.2 miles), while using the appropriate 9.0/125 micrometer single mode fiber optic cable.

The 8 Gbps SAN switches support all features and functions as indicated in this announcement and require Fabric OS v6.1.1, or later.

### Accessibility by people with disabilities

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A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

### For hardware offerings

The ports and connectors support connection of industry-standard devices support use by people with disabilities.

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## Reference information

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For more information on the IBM System Storage 8 Gbps b-type switches (2498-B40, and B24 Express), refer to Hardware Announcement [108-323](#), dated May 13, 2008.

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## Product number

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### New product structure (TMF)

The following are the newly announced features of the IBM System Storage SAN40B-4 and SAN24B-4 Express switches.

Description	Machine type	Model	Feature
IBM System Storage 8 Gbps switch			
SAN40B-4			
SAN24B-4 Express			
SFP 8 Gbps 10 km LW	2498	B24, B40	2821
SFP 8 Gbps 10 km LW 8-Pack	2498	B24, B40	2828

## Single Entity Offerings (SEOs)

Description	Machine type	Model	SEO number
IBM System Storage 8 Gbps switch			
SAN40B-4 SAN24B-4 Express			
SFP 8 Gbps 10 km LW	2498	B24, B40	45w1216
SFP 8 Gbps 10 km LW 8-Pack	2498	B24, B40	45w1218

### Model conversions

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Not applicable

### Feature conversions

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Not applicable

### Business Partner information

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If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld® ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=108-788>

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## Publications

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Publications are shipped with the product and have been revised to reflect this announcement. Additional copies of individual publications are available on the Internet at

<http://www-03.ibm.com/systems/storage/san/b-type/index.html>

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## Services

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### Global Technology Services

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IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an On Demand Business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

For details on available services, contact your IBM representative or visit

<http://www.ibm.com/services/>

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or visit

<http://www.ibm.com/services/continuity>

For details on education offerings related to specific products, visit

<http://www.ibm.com/services/learning/index.html>

Select your country, and then select the product as the category.

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## Technical information

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### Specified operating environment

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#### Physical specifications

249840E

width: 42.88 cm (16.88 in)  
Height: 4.29 cm (1.69 in)  
Depth: 61.0 cm (24.0 in)  
weight: 9.34 kg (20.6 lb.)

249824E

width: 42.88 cm (16.88 in)  
Height: 4.29 cm (1.69 in)  
Depth: 30.6 cm (12.07 in)  
weight: 4.35 kg (9.3 lb.)

For information on technical specifications of IBM SAN b-type products, including operating environment, physical specifications, and recommended installation procedures, refer to

<http://www.ibm.com/systems/storage/san/b-type/index.html>

#### Operating environment

For more information on the IBM System Storage 8 Gbps b-type switches (2498-B40, and B24 Express), refer to Hardware Announcement [108-323](#), dated May 13, 2008.

### Supported servers and storage systems

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The IBM System Storage SAN40B-4, and SAN24B-4 Express are designed to support FC connectivity for the following:

#### Servers

- IBM System z10, z9™ EC, z9 BC, and zSeries® 990, 900, 890, and 800
- IBM Power Systems
- IBM System p® and selected RS/6000® servers
- IBM System i® and selected AS/400® servers
- IBM System x™ and selected Netfinity® servers
- Other Intel-based servers with Linux®, Microsoft® Windows® 2000, and Windows 2003
- Selected Sun and HP servers

#### Storage software

IBM TotalStorage® SAN Volume Controller (SVC)

#### Storage systems

- IBM System Storage DS8000™
- IBM System Storage DS6000™
- IBM System Storage DS4000™
- IBM TotalStorage Enterprise Storage Server®
- IBM TotalStorage FASTT Family of Storage Servers
- IBM System Storage n Series NAS Filers and Gateways
- IBM TotalStorage 3580, 3588, 3590, and 3592 Tape Drives
- IBM TotalStorage 3494, 3582, 3583, and 3584 Tape Libraries

- IBM TotalStorage 3581 Tape Autoloader
- IBM TotalStorage 3584 High Availability Frame Model HA1
- Other selected storage systems

For specific support dates, configuration options, server models, operating systems levels, attachment capabilities, and throughput connectivity speeds, visit

<http://www.ibm.com/systems/storage/san/b-type>

### **Software requirements**

Specific details on supported operating system releases are available at

<http://www.ibm.com/systems/storage/san/b-type>

### **Compatibility**

The IBM System Storage SAN40B-4 and SAN24B-4 Express switches are compatible with the following options:

Description	Machine type	Model	Part number
SFP 8 Gbps 10 km LW	2498	24E, 40E	45W1216
SFP 8 Gbps 10 km LW 8-Pack	2498	24E, 40E	45W1218

### **Planning information**

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#### **Customer responsibilities**

Planning information, including customer responsibilities, physical planning, and installability is available in the specific product planning manuals at

<http://www.ibm.com/systems/storage/san/b-type>

You are responsible for downloading or obtaining from IBM, and installing designated Machine Code (microcode, basic input/output system code (called "BIOS"), utility programs, device drivers, and diagnostics delivered with an IBM machine) and other software updates in a timely manner from an IBM Internet Web site or from other electronic media, and following the instructions that IBM provides. You may request IBM to install Machine Code changes; however, you may be charged for that service.

#### **Cable orders**

**Fiber optic cable:** A fiber optic cable is required for attaching each active port to a host system adapter, or other storage area FC component. The cable can be customer supplied, or ordered with the 249824E, or 249840E in the lengths available. The attaching fiber cable must be 50.0/125 micrometers for distances up to 300 meters at 2 Gbps speed, 150 meters at 4 Gbps, or 50 meters at 8 Gbps. The attaching fiber cable must be 62.5/125 micrometers for distances up to 175 meters at 2 Gbps speed, or 70 meters at 4 Gbps, or 21 meters at 8 Gbps. Longwave SFPs require 9 Micron singlemode fiber optic cables.

The connection is an LC connector type.

In many situations, the required lengths and installation of fiber optic cables will be unique to each customer's configuration and facility specifications. IBM Network Integration and Deployment Services, offered by IBM Global Services, can provide assistance for these unique cabling and installation requirements.

#### **Packaging**

Product	Shipment Group	Number of boxes
45W1216	SFP 8 Gbps 10 km LW	1
45W1218	SFP 8 Gbps 10 km LW 8-Pack	1

## Security, auditability, and control

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The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

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## Terms and conditions

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### **MES discount applicable**

Equal to the volume commitment discount

### **Field installable feature**

Yes

### **Warranty period**

One year. This feature or features assume the same warranty or maintenance terms as the machine in which it is installed for the full warranty or maintenance period announced for such machine.

### **Customer setup**

Yes

### **Machine code**

No license terms apply.

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## Prices

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For current prices, contact IBM at 888-Shop-IBM (746-7426) or visit

<http://www-03.ibm.com/systems/ca/en/x/>

### **New product structure (TMF)**

Description	Type	Part number	Model	Feature	List Price
SFP 8Gbps 10 Km LW		45W1216			\$ 2,320
SFP 8Gbps 10 Km LW 8- pack		45W1218			18,560
SFP 8Gbps 10 Km LW	2498		B24	2821	2,320
SFP 8Gbps 10 Km LW 8- pack	2498		B24	2828	18,560
SFP 8Gbps 10 Km LW	2498		B40	2821	2,320
SFP 8Gbps 10 Km LW 8- pack	2498		B40	2828	\$18,560

\*\* Purchase Price reflects the purchase price for a single unit acquired from IBM and is subject to change without notice. This price shall not limit, in any way, IBM resellers' ability to set their own price.

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