

IBM Converged Switch B32

IBM Converged Switch L32

IBM Storage and Server Interoperability Matrix

Last update: Jun. 23, 11

© Copyright International Business Machines Corporation 2009, 2010, 2011. All rights reserved.

THE INFORMATION PROVIDED IN THIS DOCUMENT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, INTEROPERABILITY OR COMPATIBILITY. IBM's products are warranted in accordance with the agreements under which they are provided.

Unless otherwise specified, the product manufacturer, supplier, or publisher of non-IBM products provides warranty, service, and support directly to you. IBM makes no representations or warranties regarding non-IBM products.

The inclusion of an IBM or non-IBM product on an interoperability list is not a guarantee that it will work with the designated IBM storage product. In addition, not all software and hardware combinations created from compatible components will necessarily function properly together. The following list includes products developed or distributed by companies other than IBM. IBM does not provide service or support for the non-IBM products listed, but does not prohibit them from being used together with IBM's storage products. During problem debug and resolution, IBM may require that hardware or software additions be removed from the IBM product to provide problem determination and resolution on the IBM-supplied hardware/ software. For support issues regarding non-IBM products, please contact the manufacturer of the product directly. IBM does not warrant either functionality or problem resolution of any non-IBM products.

This information could include technical inaccuracies or typographical errors. IBM does not assume any liability for damages caused by such errors as this information is provided for convenience only; the reader should confirm any information contained herein with the associated vendor.

Changes are periodically made to the content of the document. These changes will be incorporated in new editions of the document. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this document at anytime without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

All statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

This information is for planning purposes only. The information herein is subject to change before the products described become available.

IBM Converged Switch B32

The following terms are trademarks of the International Business Machines Corporation in the United States, other countries, or both:

AIX
BladeCenter
IBM
iSeries
OS/400
pSeries
Redbooks
Server Proven
System i
System p
System x
System z

Microsoft and Windows are trademarks of Microsoft Corporation in the United States, other countries, or both.

Ultruim is a trademark of IBM, HP, and Certance in the United States and other countries or both.
Linux is a trademark of Linus Torvalds in the United States and other countries or both.

Other company, product, or service names may be trademarks or service marks of others.

Table of Contents

[DS8000](#)

[DS5000](#)

[TAPE](#)

[SVC](#)

[CNAs](#)

[BladeCenter](#)

[Transceivers](#)

Notes:

1. For the latest supported firmware levels please see the [support page](#).
2. This SAN product is not intended to attach to public telecom networks.
3. Storage attachment is supported via Fibre Channel protocol only with an intervening b-type SAN switch
4. Fibre Channel over Ethernet attachment is supported with servers only.
5. Use of OM3 cable is recommended for 8 and 10Gbps applications.
6. Only FIPv0 is supported at the current time (FIPv1 not supported)

DS8000 Connectivity

Please see **IBM TotalStorage DS8000 [Interoperability Matrix](#)** for Licensed Machine Code (LMC) level and availability.

IBM [System p](#) Servers

Description	Operating Systems	Additional Information
IBM TotalStorage DS8000 <ul style="list-style-type: none"> • DS8100 2107-921 • DS8300 2107-922 2107-9A2 	AIX <ul style="list-style-type: none"> • 5.3 • 6.1 Red Hat Enterprise Linux <ul style="list-style-type: none"> • 5.1 • 5.3 SuSE Linux Enterprise Server (SLES) <ul style="list-style-type: none"> • 9 • 10SP2 	IBM TotalStorage DS8000 Interoperability Matrix Fibre Channel Host Bus Adapter firmware and driver level matrix.

IBM [System x](#) Servers and other Intel-based Servers

Description	Operating Systems	Additional Information
IBM TotalStorage DS8000 <ul style="list-style-type: none"> • DS8100 2107-921 • DS8300 2107-922 2107-9A2 	Microsoft Windows Server 2003, 2008	IBM TotalStorage DS8000 Interoperability Matrix Fibre Channel Host Bus Adapter firmware and driver level matrix.
	Red Hat Enterprise Linux <ul style="list-style-type: none"> • 5.3 SuSE Linux Enterprise Server (SLES) <ul style="list-style-type: none"> • 10 • 11 	

SUN microsystems Servers

Description	Operating Systems	Additional Information
IBM TotalStorage DS8000 <ul style="list-style-type: none"> • DS8100 2107-921 • DS8300 2107-922 2107-9A2 	Solaris <ul style="list-style-type: none"> • 9 • 10 	IBM TotalStorage DS8000 Interoperability Matrix Fibre Channel Host Bus Adapter firmware and driver level matrix. FCoE connectivity not supported

Hewlett-Packard Servers – HP- UX

Description	Operating Systems	Additional Information
IBM TotalStorage DS8000 <ul style="list-style-type: none"> • DS8100 2107-921 • DS8300 2107-922 2107-9A2 	HP-UX <ul style="list-style-type: none"> • 11i • 11iv2 	IBM TotalStorage DS8000 Interoperability Matrix Fibre Channel Host Bus Adapter firmware and driver level matrix. FCoE connectivity not supported

XIV Connectivity

IBM [System p](#) Servers

Description	Operating Systems	Additional Information
IBM XIV Storage System <ul style="list-style-type: none"> • 2810 • 2812 	Red Hat Enterprise Linux <ul style="list-style-type: none"> • 5.3 SuSE Linux Enterprise Server (SLES) <ul style="list-style-type: none"> • 10 	

IBM [System x](#) and other Intel-based Servers

Description	Operating Systems	Additional Information
IBM XIV Storage System <ul style="list-style-type: none"> • 2810 • 2812 	Microsoft Windows 2008	
	Red Hat Enterprise Linux <ul style="list-style-type: none"> • 5.3 SuSE Linux Enterprise Server (SLES) <ul style="list-style-type: none"> • 10 	

DS5000 Connectivity

IBM [System p](#) Servers

Description	Operating Systems	Additional Information
IBM System Storage <ul style="list-style-type: none">• DS5100• DS5300	AIX <ul style="list-style-type: none">• Version 6.1 SP2 Red Hat Enterprise Linux <ul style="list-style-type: none">• 5.1 SuSE Linux Enterprise Server (SLES) <ul style="list-style-type: none">• 9• 10	

TAPE Connectivity

IBM [System p](#) Servers

Description	Operating Systems	Additional Information
IBM Enterprise Tape System 3592	Red Hat Enterprise Linux • 5.3	Fibre Channel Host Bus Adapter firmware and driver level matrix. FCoE connectivity not supported
IBM Enterprise Tape System 3590		
IBM 3584 Tape Library	SuSE Linux Enterprise Server (SLES) • 10	
IBM 3583 Tape Library		
IBM 3582 Tape Library.		
IBM 3581 Tape Library.		
IBM System Storage TS3310 Tape Library		
IBM System Storage TS3100 Tape Library		
IBM System Storage TS3200 Tape Library		
IBM Virtualization Engine TS7520		
IBM System Storage TS3500 Tape Library		
IBM System Storage TS1120 Tape Drive		
IBM System Storage TS1130 Tape Drive		
IBM Ultrium 2, 3, or 4 LTO Tape Drive		

IBM [System x](#) and other Intel-based Servers

Description	Operating Systems	Additional Information
IBM Enterprise Tape System 3592	Microsoft Windows 2003 , 2008	Available.
IBM Enterprise Tape System 3590	Red Hat Enterprise Linux	IBM Server Proven Interoperability matrix
IBM 3584 Tape Library	<ul style="list-style-type: none"> • 5.3 	Fibre Channel Host Bus Adapter firmware and driver level matrix.
IBM 3583 Tape Library	SuSE Linux Enterprise Server (SLES)	
IBM 3582 Tape Library.	<ul style="list-style-type: none"> • SLES 10 	Please review RMSS TechnicalSupport Site.
IBM 3581 Tape Library.		
IBM System Storage TS3310 Tape Library		
IBM System Storage TS3100 Tape Library		
IBM System Storage TS3200 Tape Library		
IBM Virtualization Engine TS7520		
IBM System Storage TS3500 Tape Library		
IBM System Storage TS1120 Tape Drive		
IBM System Storage TS1130 Tape Drive		
IBM Ultirum 2, 3, or 4 LTO Tape Drive		

Sun Microsystems Servers

Description	Operating Systems	Additional Information
IBM Enterprise Tape System 3592	Solaris <ul style="list-style-type: none"> • 9 • 10 	Fibre Channel Host Bus Adapter firmware and driver level matrix.
IBM Enterprise Tape System 3590		
IBM 3584 Tape Library		FCoE connectivity not supported
IBM 3583 Tape Library		
IBM 3582 Tape Library		
IBM 3581 Tape Library		
IBM System Storage TS3310 Tape Library		
IBM System Storage TS3100 Tape Library		
IBM System Storage TS3200 Tape Library		
IBM Virtualization Engine TS7520		
IBM System Storage TS3500 Tape Library		
IBM System Storage TS1120 Tape Drive		
IBM System Storage TS1130 Tape Drive		
IBM Ultrium 2, 3, or 4 LTO Tape Drive		

Hewlett-Packard Servers – HP- UX

Description	Operating Systems	Additional Information
<p>IBM Enterprise Tape System 3592</p> <p>IBM Enterprise Tape System 3590</p> <p>IBM 3584 Tape Library</p> <p>IBM 3583 Tape Library</p> <p>IBM 3582 Tape Library.</p> <p>IBM 3581 Tape Library.</p> <p>IBM System Storage TS3310 Tape Library</p> <p>IBM System Storage TS3100 Tape Library</p> <p>IBM System Storage TS3200 Tape Library</p> <p>IBM Virtualization Engine TS7520</p> <p>IBM System Storage TS3500 Tape Library</p> <p>IBM System Storage TS1120 Tape Drive</p> <p>IBM System Storage TS1130 Tape Drive</p> <p>IBM Ultrium 2, 3, or 4 LTO Tape Drive</p>	<p>HP-UX</p> <ul style="list-style-type: none"> • 11i • 11iV2 	<p>Fibre Channel Host Bus Adapter firmware and driver level matrix.</p> <p>FCoE connectivity not supported</p>

SAN Volume Controller (SVC) Connectivity

Description	Software Version	Additional Information
SAN Volume Controller <ul style="list-style-type: none"> • 2145 	4.3	2 and 4Gbps clusters only

IBM BladeCenter Connectivity

Description	Blade Switch Module Firmware	Additional Information
Brocade 10-port 4Gb SAN Switch Module	6.2.0e	Uses BladeCenter specific (bc) version
Brocade 20-port 4Gb SAN Switch Module	6.2.0e	Uses BladeCenter specific (bc) version

Converged Network Adapters (CNAs)

Description	CNA Firmware		
Brocade 10Gb CNA for IBM System x	Description driver: bnx2 Driver: 2.1.0.0 FW version: 5.01.03 version: 1.7.9-1 firmware-version: 1.9.6	OS Levels RHEL 5.1 / 5.3 SLES10 SP2 SLES 11 Win 2003 Win 2008	Storage DS8K, XIV,Tape,SVC
QLogic 10Gb CNA for IBMSystem x	Description driver: qlge Drv: 8.03.00.08.05.04-k-t1 FW version: 5.01.03 version: 1.00.00.11 firmware-version: v1.35.4	OS Levels RHEL 5.1 / 5.3 SLES10 SP2 SLES 11 Win 2003 Win 2008	Storage DS8K, XIV,Tape,SVC
QLogic 10Gb CNA for IBM Power Systems	Description driver: qlge Drv: 8.03.00.10.05.04-k FW version: 5.01.04	OS Levels RHEL 5.4 SLES10 SP3 AIX 5.4, 6.1	Storage DS8K, XIV,Tape,SVC
10Gb FCoE PCIe Dual Port CNA for Power System Server	Adapter level 010401 AIX 6.1 driver devices.pciex.7710008077108001.diag 6.1.4.0 AIX 5.3 driver devices.pciex.771000801410b003.diag 5.3.11.0		

Transceivers

Below are supported transceivers.

IBM P/N	Description	Alternate PN
10 Gbps		
45W2412	10 Gbps SR SFP+	IB-000180
45W2417	10 Gbps LR SFP+	IB-000182
45W2399	1m Twinax	IB-TWX-0101
45W2404	3m Twinax	IB-TWX-0103
45W3037	5m Twinax	IB-TWX-0105
8 Gbps		
21R9941	8 Gbps Short Wave	IB-000147
45W1193	8 Gbps Long Wave 10km	IB-000153
45W2060	8 Gbps Extended Long Wave 25km	IB-000174