

# IBM® SystemStorage® SAN06B-R

## IBM Storage and Server Interoperability Matrix

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## Table of Contents

[DS8000](#)

[XIV](#)

[DS4000](#)

[DS5000](#)

[Tape](#)

[NAS](#)

[SVC](#)

[BladeCenter](#)

[Transceivers](#)

### Notes:

1. For the latest available and supported firmware levels see the product support pages.
  - SAN06B-R
2. This SAN product cannot attach to public telecom networks and is not intended to attach to public telecom networks.
3. Both tape and disk attached to the same HBA are not recommended.
4. Native Interoperability mode is supported when attached to System z products or in FICON networks with the IBM TotalStorage SAN256M only.
  - ISL (Cascaded) Connections between Brocade B-Series products (all switches and directors) and ISL (Cascaded) Connections between Brocade B-Series products (all switches and directors) and Brocade M-Series (M4700, Mi10k, M6140) not supported for FICON deployment with the IBM SystemStorage SAN768B, SAN40B-4, and SAN80B-4.
5. Use of OM3 cable is recommended for 8 and 10Gbps applications.

## DS8000 Connectivity

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

**IBM [System z](#) Servers Models z10 EC, z10 BC, z9 EC, z10 BC, z990, z890, z900 and z800**

Description	Operating Systems	Additional Information
IBM TotalStorage <a href="#">DS8000</a>	IBM z/OS level 1.7 and above  z/VM, VSE, TPF	System z <a href="#">I/O Connectivity</a>

**IBM [System z](#) Servers Models z10 EC, z10 BC, z9 EC, z10 BC, z990, z890, z900 and z800**

Description	Operating Systems	Additional Information
IBM TotalStorage <a href="#">DS8000</a>	Fibre Channel  Red Hat Enterprise Linux <ul style="list-style-type: none"> <li>• 3.0</li> <li>• 4.0</li> <li>• 5.0</li> </ul> SuSE Linux Enterprise Server (SLES) <ul style="list-style-type: none"> <li>• 9</li> <li>• 10</li> </ul>	

**IBM System p Servers**

Description	Operating Systems	Additional Information
<p><b>IBM TotalStorage DS8000</b></p> <ul style="list-style-type: none"> <li>• DS8100 2107-921</li> <li>• DS8300 2107-922 2107-9A2</li> </ul>	<p><b>AIX</b></p> <ul style="list-style-type: none"> <li>• 5L Version 5.2</li> <li>• Version 5.3</li> <li>• Version 6.1 SP2</li> </ul> <p><b>HACMP <sup>1</sup></b></p> <p><b>Red Hat Enterprise Linux</b></p> <ul style="list-style-type: none"> <li>• 4.0</li> <li>• 4.6</li> <li>• 5.1</li> </ul> <p><b>SuSE Linux Enterprise Server (SLES)</b></p> <ul style="list-style-type: none"> <li>• 9</li> <li>• 10</li> </ul>	<p><b>IBM TotalStorage DS8000 Interoperability Matrix</b></p>

**IBM System i Servers**

Description	Platform/Operating Systems	Additional Information
<p><b>IBM TotalStorage DS8000</b></p> <ul style="list-style-type: none"> <li>• DS8100 2107-921</li> <li>• DS8300 2107-922 2107-9A2</li> </ul>	<p><b>IBM iSeries Model and i5 eServer</b></p> <p><b>OS/400</b></p> <ul style="list-style-type: none"> <li>• V5R3</li> <li>• V5R4</li> </ul> <p><b>I5/OS</b></p> <ul style="list-style-type: none"> <li>• V5R3</li> <li>• V5R4</li> </ul>	<p><b>IBM TotalStorage DS8000 Interoperability Guide</b></p> <p><a href="#">iSeries SAN information</a></p>

<sup>1</sup> See **DS8000** Interoperability matrix for **AIX and HACMP** support information.

**IBM System x Servers and other Intel-based Servers**

Description	Operating Systems	Additional Information
<b>IBM TotalStorage <a href="#">DS8000</a></b> <ul style="list-style-type: none"> <li>• DS8100 2107-921</li> <li>• DS8300 2107-922 2107-9A2</li> </ul>	<b>Microsoft Windows Server 2003</b> <ul style="list-style-type: none"> <li>• Standard Edition</li> <li>• Enterprise Edition including cluster service</li> <li>• Datacenter Edition including cluster service</li> </ul>	<b>IBM TotalStorage DS8000 <a href="#">Interoperability Matrix</a></b>
	<b>Novell Netware</b> <ul style="list-style-type: none"> <li>• 6.5</li> </ul>	
	<b>Red Hat Enterprise Linux</b> <ul style="list-style-type: none"> <li>• 5.1</li> </ul> <b>SuSE Linux Enterprise Server (SLES)</b> <ul style="list-style-type: none"> <li>• 9</li> <li>• 10</li> </ul>	

### SUN Microsystems Servers

Description	Operating Systems	Additional Information
IBM TotalStorage <a href="#">DS8000</a> • DS8100 2107-921 • DS8300 2107-922 2107-9A2	Solaris • 9 • 10	IBM TotalStorage DS8000 <a href="#">Interoperability Matrix</a>

### Hewlett-Packard Servers – HP- UX

Description	Operating Systems	Additional Information
IBM TotalStorage <a href="#">DS8000</a> • DS8100 2107-921 • DS8300 2107-922 2107-9A2	HP-UX • 11i • 11iv2	IBM TotalStorage DS8000 <a href="#">Interoperability Matrix</a>



## XIV Connectivity

### IBM [System p](#) Servers

Description	Operating Systems	Additional Information
<b>IBM XIV Storage System</b> <ul style="list-style-type: none"> <li>• 2810</li> <li>• 2812</li> </ul>	<b>AIX</b> <ul style="list-style-type: none"> <li>• Version 5.3</li> <li>• Version 6.1 SP2</li> </ul> <b>Red Hat Enterprise Linux</b> <ul style="list-style-type: none"> <li>• 5.3</li> </ul> <b>SuSE Linux Enterprise Server (SLES)</b> <ul style="list-style-type: none"> <li>• 10</li> </ul>	

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

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

### SUN Microsystems Servers

Description	Operating Systems	Additional Information
<b>IBM XIV Storage System</b> <ul style="list-style-type: none"> <li>• 2810</li> <li>• 2812</li> </ul>	<b>Solaris</b> <ul style="list-style-type: none"> <li>• 9</li> <li>• 10</li> </ul>	

### Hewlett-Packard Servers – HP- UX

Description	Operating Systems	Additional Information
<b>IBM XIV Storage System</b> <ul style="list-style-type: none"> <li>• 2810</li> <li>• 2812</li> </ul>	<b>HP-UX</b> <ul style="list-style-type: none"> <li>• 11iv2</li> </ul>	



## DS4000 Connectivity

- For the most current supported HACMP, PSSP, GPFS/RVSD configurations see the important notices and readmes posted on:
  - <http://www-1.ibm.com/servers/storage/support/disk/ds4500/>
  - <http://www-1.ibm.com/servers/storage/support/disk/ds4400/>
  - <http://www-1.ibm.com/servers/storage/support/disk/ds4300/>
  - <http://www-1.ibm.com/servers/storage/support/disk/ds4100/>
  - <http://www-03.ibm.com/servers/storage/support/disk/fastt500/>
  - <http://www-03.ibm.com/servers/storage/support/disk/fastt200/>

### IBM System p Servers

Description	Operating Systems	Additional Information
<b>IBM TotalStorage Storage Servers</b> <ul style="list-style-type: none"> <li><a href="#">DS4100</a></li> <li><a href="#">DS4300</a></li> <li><a href="#">DS4400</a></li> <li><a href="#">DS4500</a></li> <li><a href="#">DS4800</a></li> <li><a href="#">FAStT500</a></li> <li><a href="#">FAStT200</a></li> </ul>	<b>AIX</b> <ul style="list-style-type: none"> <li>5L                             <ul style="list-style-type: none"> <li>Version 5.1</li> <li>Version 5.2</li> <li>Version 5.3</li> <li>Version 6.1 SP2</li> </ul> </li> </ul> <b>Red Hat Enterprise Linux</b> <ul style="list-style-type: none"> <li>4.0</li> <li>4.6</li> <li>5.1</li> </ul> <b>SuSE Linux Enterprise Server (SLES)</b> <ul style="list-style-type: none"> <li>9</li> <li>10</li> </ul>	<b>IBM TotalStorage DS4000 Storage</b> <a href="#">Interoperability matrix</a>

### IBM System x Servers and other Intel-based Servers

Description	Operating Systems	Additional Information
<b>IBM TotalStorage Storage Servers</b> <ul style="list-style-type: none"> <li><a href="#">DS4100</a></li> <li><a href="#">DS4300</a></li> <li><a href="#">DS4400</a></li> <li><a href="#">DS4500</a></li> <li><a href="#">DS4800</a></li> <li><a href="#">FAStT500</a></li> <li><a href="#">FAStT200</a></li> </ul>	<b>Microsoft Windows 2003, 2008</b>	<b>IBM TotalStorage DS4000 Storage</b> <a href="#">Interoperability matrix</a>
	<b>Red Hat Enterprise Linux</b> <ul style="list-style-type: none"> <li>4.0</li> <li>5.1</li> </ul> <b>SuSE Linux Enterprise Server (SLES)</b> <ul style="list-style-type: none"> <li>9</li> <li>10</li> </ul>	

### SUN Microsystems Servers

Description	Operating Systems	Additional Information
<b>IBM TotalStorage Storage Servers</b> <ul style="list-style-type: none"> <li>• <a href="#">DS4100</a></li> <li>• <a href="#">DS4300</a></li> <li>• <a href="#">DS4400</a></li> <li>• <a href="#">DS4500</a></li> <li>• <a href="#">DS4800</a></li> <li>• <a href="#">FAStT500</a></li> <li>• <a href="#">FAStT200</a></li> </ul>	<b>Solaris</b> <ul style="list-style-type: none"> <li>• 9</li> <li>• 10</li> </ul>	<b>IBM TotalStorage DS4000 Storage</b> <a href="#">Interoperability matrix</a>

### Hewlett-Packard Servers – HP- UX

Description	Operating Systems	Additional Information
<b>IBM TotalStorage Storage Servers</b> <ul style="list-style-type: none"> <li>• <a href="#">DS4100</a></li> <li>• <a href="#">DS4300</a></li> <li>• <a href="#">DS4400</a></li> <li>• <a href="#">DS4500</a></li> <li>• <a href="#">DS4800</a></li> <li>• <a href="#">FAStT500</a></li> <li>• <a href="#">FAStT200</a></li> </ul>	<b>HP-UX</b> <ul style="list-style-type: none"> <li>• 11i</li> <li>• 11iv2</li> </ul>	<b>IBM TotalStorage DS4000 Storage</b> <a href="#">Interoperability matrix</a>

## DS5000 Connectivity

### IBM [System p](#) Servers

Description	Operating Systems	Additional Information
<b>IBM System Storage</b> • DS5100 • DS5300	<b>AIX</b> • 5L Version 5.2 • Version 5.3 • Version 6.1 SP2  <b>Red Hat Enterprise Linux</b> • 4.6 • 5.1  <b>SuSE Linux Enterprise Server (SLES)</b> • 9 • 10	

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

Description	Operating Systems	Additional Information
<b>IBM System Storage</b> • DS5100 • DS5300	<b>Microsoft Windows 2003, 2008</b>	
	<b>Red Hat Enterprise Linux</b> • 4.0 • 5.1  <b>SuSE Linux Enterprise Server (SLES)</b> • 9 • 10	

### SUN Microsystems Servers

Description	Operating Systems	Additional Information
<b>IBM System Storage</b> • DS5100 • DS5300	<b>Solaris</b> • 9 • 10	

## TAPE Connectivity

**AVOID DYNAMIC ZONING CHANGES**

As a recommendation, we advise that one avoid making zoning changes to your fabric while data is being transferred, if possible. There may be some risk in job interruption, especially with serial data during the Registered State Change Notifications (RSCN's) that are produced as a result of the zone change. Some HBA's are more prone to an interruption than others.

**IBM z10 EC, z10 BC, z9 EC, z9 BC, z990, z890, z900, and z800**

Description	Operating Systems	Additional Information
<p><b>IBM Virtualization Engine TS7700</b></p>	<p>FICON Channel Card</p>	<p>Web site for TS7700 code and Brocade Code interoperability  <a href="http://www-03.ibm.com/support/techdocs/atsmastr.nsf/WebIndex/FQ116133">http://www-03.ibm.com/support/techdocs/atsmastr.nsf/WebIndex/FQ116133</a></p>
<p><b>IBM TotalStorage Enterprise</b>                      Automated Tape Library 3494</p>		<p>Web site for TS7400 code and Brocade Code interoperability  <a href="http://www.ibm.com/support/techdocs/atsmaster.nsf/WebIndex/FQ105505">http://www.ibm.com/support/techdocs/atsmaster.nsf/WebIndex/FQ105505</a></p>
<p><b>IBM TotalStorage Virtual Tape Server 3494-B10/B20.</b></p>		
<p><b>IBM TotalStorage Enterprise Tape Controller <a href="#">3592</a> Model J70</b></p>		
<p><b>IBM TotalStorage Enterprise Tape Drive Frame 3590 Model A14</b></p>		

**IBM System p Servers**

Description	Operating Systems	Additional Information
IBM Enterprise Tape System <a href="#">3592</a>	AIX • 5L	
IBM Enterprise Tape System <a href="#">3590</a>	Version 5.2 • Version 5.3 • Version 6.1 SP2	
IBM <a href="#">3584</a> Tape Library	Red Hat Enterprise Linux	
IBM <a href="#">3583</a> Tape Library	• 4.0	
IBM <a href="#">3582</a> Tape Library.	• 4.6	
IBM <a href="#">3581</a> Tape Library.	• 5.1	
IBM System Storage TS3310 Tape Library	SuSE Linux Enterprise Server (SLES)	
IBM System Storage TS3100 Tape Library	• 9	
IBM System Storage TS3200 Tape Library	• 10	
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		



**IBM System i Servers**

Description	Platform/Operating Systems	Additional Information
<b>IBM Enterprise Tape System <a href="#">3592</a></b>	<b>IBM <a href="#">iSeries</a> Model</b>	<b>System i SAN <a href="#">information</a>.</b>
<b>IBM Enterprise Tape System <a href="#">3590</a></b>	<b>OS/400</b> <ul style="list-style-type: none"> <li>• V5R3</li> <li>• V5R4</li> </ul>	
<b>IBM <a href="#">3584</a> Tape Library</b>		
<b>IBM <a href="#">3583</a> Tape Library</b>		
<b>IBM <a href="#">3582</a> Tape Library.</b>		
<b>IBM <a href="#">3581</a> Tape Library.</b>		
<b>IBM System Storage TS3310 Tape Library</b>		
<b>IBM System Storage TS3100 Tape Library</b>		
<b>IBM System Storage TS3200 Tape Library</b>		
<b>IBM Virtualization Engine TS7520</b>		
<b>IBM System Storage TS3500 Tape Library</b>		
<b>IBM System Storage TS1120 Tape Drive</b>		
<b>IBM System Storage TS1130 Tape Drive</b>		
<b>IBM Ultrium 2, 3, or 4 LTO Tape Drive</b>		

**IBM System x Servers and other Intel-based Servers**

Description	Operating Systems	Additional Information
IBM Enterprise Tape System <a href="#">3592</a>	Microsoft Windows 2003, 2008 Server	Please review <a href="#">RMSS TechnicalSupport</a> Site.
IBM Enterprise Tape System <a href="#">3590</a>	Red Hat Enterprise Linux	
IBM <a href="#">3584</a> Tape Library	<ul style="list-style-type: none"> <li>• 4.0</li> </ul>	
IBM <a href="#">3583</a> Tape Library	<ul style="list-style-type: none"> <li>• 5.1</li> </ul>	
IBM <a href="#">3582</a> Tape Library.	SuSE Linux Enterprise Server (SLES)	
IBM <a href="#">3581</a> Tape Library.	<ul style="list-style-type: none"> <li>• SLES 9</li> </ul>	
IBM System Storage TS3310 Tape Library	<ul style="list-style-type: none"> <li>• SLES 10</li> </ul>	
IBM System Storage TS3100 Tape Library	<ul style="list-style-type: none"> <li>• SLES 11</li> </ul>	
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
<b>IBM Enterprise Tape System <a href="#">3592</a></b>	<b>Solaris</b> <ul style="list-style-type: none"> <li>• 9</li> <li>• 10</li> </ul>	
<b>IBM Enterprise Tape System <a href="#">3590</a></b>		
<b>IBM <a href="#">3584</a> Tape Library</b>		
<b>IBM <a href="#">3583</a> Tape Library</b>		
<b>IBM <a href="#">3582</a> Tape Library.</b>		
<b>IBM <a href="#">3581</a> Tape Library.</b>		
<b>IBM System Storage TS3310 Tape Library</b>		
<b>IBM System Storage TS3100 Tape Library</b>		
<b>IBM System Storage TS3200 Tape Library</b>		
<b>IBM Virtualization Engine TS7520</b>		
<b>IBM System Storage TS3500 Tape Library</b>		
<b>IBM System Storage TS1120 Tape Drive</b>		
<b>IBM System Storage TS1130 Tape Drive</b>		
<b>IBM Ultirum 2, 3, or 4 LTO Tape Drive</b>		

**Hewlett-Packard Servers – HP- UX**

Description	Operating Systems	Additional Information
IBM Enterprise Tape System <a href="#">3592</a>	HP-UX	
IBM Enterprise Tape System <a href="#">3590</a>	<ul style="list-style-type: none"> <li>• 11i</li> <li>• 11iV2</li> </ul>	
IBM <a href="#">3584</a> Tape Library		
IBM <a href="#">3583</a> Tape Library		
IBM <a href="#">3582</a> Tape Library.		
IBM <a href="#">3581</a> 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		

## IBM System Storage N Series Connectivity

Description	Firmware Version	Additional Information
N3600, N3700	7.3.1	
N5200, N5300, N5500	7.3.1	
N7600, N7800	7.3.1	

## SAN Volume Controller (SVC) Connectivity

Description	Software Version	Additional Information
<b>SAN Volume Controller</b> <ul style="list-style-type: none"> <li>• <a href="#">2145</a></li> </ul>	4.3	

## IBM BladeCenter Connectivity

Description	Blade Switch Module Firmware	Additional Information
<b>Brocade 10-port 4Gb SAN Switch Module</b>	6.2.0	Uses BladeCenter specific (bc) version
<b>Brocade 20-port 4Gb SAN Switch Module</b>	6.2.0	Uses BladeCenter specific (bc) version
<b>IBM BladeCenter Optical Pass-thru Module</b>	n/a	
<b>Qlogic 4Gb Intelligent Pass-thru Module for IBM BladeCenter</b>	6.5.0.17.0	NPIV mode only

## Transceivers

Below are supported transceivers.

IBM P/N	Description	Alternate PN
<b>8 Gbps</b>		
21R9941	8 Gbps Short Wave	IB-000147
45W1193	8 Gbps Long Wave 10km	IB-000153
45W2060	8 Gbps Extended Long Wave 25km	IB-000174
<b>4 Gbps</b>		
21R9929	4 Gbps Short Wave	IB-000139
21R9931	4 Gbps Long Wave 4km	IB-000142
21R9937	4 Gbps Long Wave 10km	IB-000144
17P9949	4 Gbps Extended Long Wave 30km	IB-000146