



HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Modified Date: Fri, 16 Oct 2015 00:00:00 GMT

PDF Generated Date: Fri, 16 Oct 2015 16:29:26 GMT

Overview

This document contains information regarding compatibility and interoperability for a "configuration set" of Storage Area Network (SAN) components. A configuration set is a collection of components that are compatible in a particular context. For example, configuration sets of type "array-os" contain components that are compatible from an array-os perspective. An example of an array-os config set is the "EVA4400 Microsoft Windows Server 2008 IA64" config set. It describes the components that are currently supported for the EVA4400 array in a Windows 2008 IA64 environment.

It is very important that you note the details of the components listed in these tables, as they describe the specific attributes of supported component versions. It is also very important to examine the notes in each section, because they may further limit or clarify supported configurations.

The contents of this document were generated from the SPOCK website, located at: <http://spock.corp.hp.com> (HP Employees) or <http://www.hp.com/storage/spock> (HP Customers and Partners) .

Legal Notice

1. The information contained herein is subject to change without notice.
2. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

General notes about this configuration set

For specific configuration guidelines and coexistence information, refer to the SAN Design Reference Guide at <http://h18000.www1.hp.com/products/storageworks/san/documentation.html>.

Links

[Solution Software: Application Notes](http://https://v9intpro3a.itcs.hp.com/SPOCK/utility/document.aspx?docurl=Shared%20Documents/Solution_Software/All/SolSW_Application_Notes.pdf) -(http://https://v9intpro3a.itcs.hp.com/SPOCK/utility/document.aspx?docurl=Shared%20Documents/Solution_Software/All/SolSW_Application_Notes.pdf)

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

General notes about this configuration set-----	2
Disk Array (40)-----	4
Operating System (2)-----	6
Cluster Management-High Availability (4)-----	7
Server (3)-----	8
Host Bus Adapter (HBA) (234)-----	8
Converged Network Adapter (CNA) (207)-----	24
Fibre Channel Switch (53)-----	43
Fibre Channel over Ethernet (FCoE) Switch (12)-----	47
Router (7)-----	49
Path Management (4)-----	50

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Disk Array (40)						
Name	Vendor	Family	Controller	Firmware	ProductId	Host Mode
HP 3PAR StoreServ 10400 Storage	HP	3PAR		3PAR OS 3.2.1		15 (WindowsServer)
HP 3PAR StoreServ 10400 Storage	HP	3PAR		3PAR OS 3.2.2		15 (WindowsServer)
HP 3PAR StoreServ 10400 Storage	HP	3PAR		3PAR OS 3.1.3		15 (WindowsServer)
HP 3PAR StoreServ 10400 Storage	HP	3PAR		3PAR OS 3.1.1		2 (Generic-ALUA)
HP 3PAR StoreServ 10400 Storage	HP	3PAR		3PAR OS 3.1.2		2 (Generic-ALUA)
HP 3PAR StoreServ 10800 Storage	HP	3PAR		3PAR OS 3.1.1		2 (Generic-ALUA)
HP 3PAR StoreServ 10800 Storage	HP	3PAR		3PAR OS 3.2.2		15 (WindowsServer)
HP 3PAR StoreServ 10800 Storage	HP	3PAR		3PAR OS 3.1.3		15 (WindowsServer)
HP 3PAR StoreServ 10800 Storage	HP	3PAR		3PAR OS 3.2.1		15 (WindowsServer)
HP 3PAR StoreServ 10800 Storage	HP	3PAR		3PAR OS 3.1.2		2 (Generic-ALUA)
HP 3PAR StoreServ 20450 Storage	HP	3PAR		3PAR OS 3.2.2		15 (WindowsServer)
HP 3PAR StoreServ 20800 Storage	HP	3PAR		3PAR OS 3.2.2		15 (WindowsServer)
HP 3PAR StoreServ 20800 Storage	HP	3PAR		3PAR OS 3.2.2		15 (WindowsServer)
HP 3PAR StoreServ 20850 Storage	HP	3PAR		3PAR OS 3.2.2		15 (WindowsServer)
HP 3PAR StoreServ 7200 Storage	HP	3PAR		3PAR OS 3.2.2		15 (WindowsServer)

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Family	Controller	Firmware	ProductId	Host Mode
HP 3PAR StoreServ 7200 Storage	HP	3PAR		3PAR OS 3.2.1		15 (WindowsServer)
HP 3PAR StoreServ 7200 Storage	HP	3PAR		3PAR OS 3.1.3		15 (WindowsServer)
HP 3PAR StoreServ 7200 Storage	HP	3PAR		3PAR OS 3.1.2		2 (Generic-ALUA)
HP 3PAR StoreServ 7200c Storage	HP	3PAR		3PAR OS 3.2.2		15 (WindowsServer)
HP 3PAR StoreServ 7200c Storage	HP	3PAR		3PAR OS 3.2.1		15 (WindowsServer)
HP 3PAR StoreServ 7400 Storage	HP	3PAR		3PAR OS 3.2.2		15 (WindowsServer)
HP 3PAR StoreServ 7400 Storage	HP	3PAR		3PAR OS 3.1.3		15 (WindowsServer)
HP 3PAR StoreServ 7400 Storage	HP	3PAR		3PAR OS 3.2.1		15 (WindowsServer)
HP 3PAR StoreServ 7400 Storage	HP	3PAR		3PAR OS 3.1.2		2 (Generic-ALUA)
HP 3PAR StoreServ 7400c Storage	HP	3PAR		3PAR OS 3.2.1		15 (WindowsServer)
HP 3PAR StoreServ 7400c Storage	HP	3PAR		3PAR OS 3.2.2		15 (WindowsServer)
HP 3PAR StoreServ 7440c Storage	HP	3PAR		3PAR OS 3.2.2		15 (WindowsServer)
HP 3PAR StoreServ 7440c Storage	HP	3PAR		3PAR OS 3.2.1		15 (WindowsServer)
HP 3PAR StoreServ 7440c Storage	HP	3PAR		3PAR OS 3.2.2		15 (WindowsServer)
HP 3PAR StoreServ 7450 Storage	HP	3PAR		3PAR OS 3.2.1		15 (WindowsServer)
HP 3PAR StoreServ 7450 Storage	HP	3PAR		3PAR OS 3.1.2 MU2 or higher		2 (Generic-ALUA)

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Family	Controller	Firmware	ProductId	Host Mode
HP 3PAR StoreServ 7450 Storage	HP	3PAR		3PAR OS 3.2.2		15 (WindowsServer)
HP 3PAR StoreServ 7450 Storage	HP	3PAR		3PAR OS 3.1.3		15 (WindowsServer)
HP 3PAR StoreServ 7450 Storage	HP	3PAR		3PAR OS 3.2.2		15 (WindowsServer)
HP 3PAR StoreServ 7450c Storage	HP	3PAR		3PAR OS 3.2.1		15 (WindowsServer)
HP 3PAR StoreServ 7450c Storage	HP	3PAR		3PAR OS 3.2.2		15 (WindowsServer)
HP 3PAR StoreServ 8200 Storage	HP	3PAR		3PAR OS 3.2.2		15 (WindowsServer)
HP 3PAR StoreServ 8400 Storage	HP	3PAR		3PAR OS 3.2.2		15 (WindowsServer)
HP 3PAR StoreServ 8440 Storage	HP	3PAR		3PAR OS 3.2.2		15 (WindowsServer)
HP 3PAR StoreServ 8450 Storage	HP	3PAR		3PAR OS 3.2.2		15 (WindowsServer)

Notes:

General Disk Array (40) Notes:

- 1) 16Gb FC Target Adapter supported with minimum 3PAR OS 3.2.1.
- 2) HP 3PAR StoreServ 16Gb FC Target Adapter does not support direct connect to the host.
- 3) Gen 9 UEFI Boot from SAN is not currently supported with the HP 3PAR StoreServ 16Gb FC Target Adapter.

Operating System (2)						
Name	OS Family	OS Version	Service Pack	Vendor	Architecture	Patch
Windows Server 2012 R2 x64	Windows Server 2012	All Editions		Microsoft	x64	

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	OS Family	OS Version	Service Pack	Vendor	Architecture	Patch
Windows Server 2012 x64	Windows Server 2012	All Editions		Microsoft	x64	

Notes:

General Operating System (2) Notes:

- 01) Windows Server 2012 and 2012 R2 supported as of 3PAR OS 3.1.1.MU2
- 02) SAN Boot is supported
- 03) Windows Server 2012 and 2012 R2 Hyper-V is supported
- 04) Windows Server 2012 and 2012 R2 Hyper-V Live Migration is supported
- 05) Windows Server 2012 and 2012 R2 Hyper-V Live Storage Migration is supported. From 3PAR OS 3.1.2 with Windows Server 2012 Live Storage Migrations using Cluster Shared Volumes requires Microsoft HotFix KB2796995 (Not required for Windows Server 2012 R2)
- 06) Windows Server 2012 and 2012 R2 disk optimization feature is not supported with 3PAR OS 3.1.1 MU2. For 3PAR OS 3.1.1 MU2 only, the native Windows Server 2012 Defrag and Optimize Tool must not be used to "Optimize Drives" and "Scheduled optimization" must be disabled. Disable "Scheduled optimization" via Server Manager -> Tools -> Defrag and Optimize Drives -> Scheduled optimization -> Change settings.
- 07) Windows Server 2012 and 2012 R2 requires KB3046101 installed to resolve issue with MPIO path failover
- 08) For Windows Server 2012 and 2012 R2, KB2894032 is required when supporting Live Migration with guest clustered virtual machines using Virtual Fibre Channel adapters.
- 09) HP 3PAR OS Upgrades prior to 3.1.3 require the execution of KB2849097 before upgrading. For further information, refer to HP 3PAR Windows Server 2012 and Windows Server 2008 Implementation Guide and HP 3PAR Operating System Upgrade Pre-Planning Guide.
- 10) HP 3PAR OS Upgrades to 3.1.3 or later require the use of host persona 15 after upgrading. For further information, refer to HP 3PAR Windows Server 2012 and Windows Server 2008 Implementation Guide and HP 3PAR Operating System Upgrade Pre-Planning Guide.
- 11) KB2964429 is required to fix a problem with host memory consumption when using Windows Storage Optimizer.
- 12) Please refer to the following Microsoft article regarding the Permanent Resource Exhaustion condition and the potential associated risks:
[http://msdn.microsoft.com/en-us/library/windows/hardware/dn265487\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/windows/hardware/dn265487(v=vs.85).aspx)
- 13) KB2996802 is required to fix a performance problem involving Thin Provisioned Volumes.
- 14) The coexistence of Virtual Fibre Channel Adapters and Hyper-V Physical Disks (aka pass-through virtual devices) within a single VM is not supported

Cluster Management-High Availability (4)			
Name	Vendor	Software Version	Package
Microsoft Failover Clusters	Microsoft	Windows Server 2012	
Veritas Cluster Server	Symantec	6.1	
Veritas Cluster Server	Symantec	6.0.2	
VERITAS InfoScale Enterprise (Availability)	Symantec	7.0	

Notes:

General Cluster Management-High Availability (4) Notes:

- 1) Up to 64 nodes are supported with Microsoft Failover Clustering
- 2) Symantec/Veritas Storage Foundation (VxDMP/VCS) is only supported in a FC-Fabric attach (FC-switched) configuration.
- 3) Microsoft Failover Clusters are not supported in Symantec Storage Foundation environments

Server (3)		
Name	Vendor	Architecture
Link for Integrity x86 servers	HP	Integrity x86
Link for ProLiant AMD Opteron servers	HP	ProLiant
Link to ProLiant EM64T servers	HP	ProLiant

Notes:

General Server (3) Notes:

- 1) Link to ProLiant AMD64 Notes: ProLiant Server Information for Windows-(<http://h18004.www1.hp.com/products/servers/windows/index.html>)
- 2) Link to ProLiant EM64T servers Notes: ProLiant Server Information for Windows-(<http://h18004.www1.hp.com/products/servers/windows/index.html>)
- 3) For Virtual Connect support information, refer to the Virtual Connect support streams on SPOCK.
- 4) The following is applicable to HP Integrity Superdome X Enclosure with HP BL920s Blades. More details available at (<http://www.hp.com/go/integrity>)
 - 4a) 3PAR OS support is for 3.2.1 or later.
 - 4b) Superdome X FW limited to a minimum of Recipe 2.13 or later.
 - 4c) Superdome X support is limited to 710608-B21 16G HP Qlogic FC HBA and no direct connect support.
- 5) Gen 9 UEFI Boot from SAN is not currently supported with the HP 3PAR StoreServ 16Gb FC Target Adapter.

Host Bus Adapter (HBA) (234)														
Name	Vendor	Bus	Speed	HP Part Number	Firmware Version	BIOS	Vendor Part Number	Old HP Part Number	EFI	Boot Image	UEFI	Driver Version	Boot Support	Direct Connect Support
403619-B 21	QLogic	PCIe	4Gb	403619-B 21	Loaded By Driver	3.13	QMH2462			2.03AF		9.1.11.24	Y	N
403619-B 21	QLogic	PCIe	4Gb	403619-B 21	Loaded By Driver	3.13	QMH2462			2.03AF		9.1.11.23	Y	N
403619-B 21	QLogic	PCIe	4Gb	403619-B 21	Loaded By Driver	3.13	QMH2462			2.03AF		9.1.12.22	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Speed	HP Part Number	Firmware Version	BIOS	Vendor Part Number	Old HP Part Number	EFI	Boot Image	UEFI	Driver Version	Boot Support	Direct Connect Support
403619-B 21	QLogic	PCle	4Gb	403619-B 21	Loaded By Driver	3.13	QMH2462			2.03AF		9.1.11.28	Y	N
403619-B 21	QLogic	PCle	4Gb	403619-B 21	Loaded By Driver	3.13	QMH2462			2.03AF		9.1.10.27	Y	N
403619-B 21	QLogic	PCle	4Gb	403619-B 21	Loaded By Driver	3.13	QMH2462			2.03AF		9.1.11.20	Y	N
403619-B 21	QLogic	PCle	4Gb	403619-B 21	5.06.04	2.16	QMH2462			1.96AF		9.1.10.25	Y	N
403619-B 21	QLogic	PCle	4Gb	403619-B 21	Loaded By Driver	3.13	QMH2462			2.03AF		9.1.11.20	Y	N
403619-B 21	QLogic	PCle	4Gb	403619-B 21	Loaded By Driver	3.13	QMH2462			2.03AF		9.1.10.26	Y	N
403621-B 21	Emulex	PCle	4Gb	403621-B 21	2.82x4	3.30a1	LPe1105			6.10a14		2.76.003.001	Y	N
403621-B 21	Emulex	PCle	4Gb	403621-B 21	2.82x4	3.30a1	LPe1105			6.10a14		10.2.261.4	Y	N
403621-B 21	Emulex	PCle	4Gb	403621-B 21	2.82x4	3.30a2	LPe1105			6.20x4		10.2.370.8	Y	N
403621-B 21	Emulex	PCle	4Gb	403621-B 21	2.82x4	3.30a1	LPe1105			6.10a14		10.2.261.4	Y	N
403621-B 21	Emulex	PCle	4Gb	403621-B 21	2.82x4		LPe1105			6.03a11		2.72.12.1	Y	N
403621-B 21	Emulex	PCle	4Gb	403621-B 21	2.82x4	3.20a1	LPe1105			6.10a7		2.74.009.001	Y	N
403621-B 21	Emulex	PCle	4Gb	403621-B 21	2.82x4	3.20a1	LPe1105			6.10a8		2.76.002.001-2	Y	N
403621-B 21	Emulex	PCle	4Gb	403621-B 21	2.82x4	3.20a1	LPe1105			6.10a8		2.74.014.001	Y	N
451871-B 21	QLogic	PCle	8Gb	451871-B 21	5.06.04	2.16	QMH2562		NA	2.39AF		9.1.10.25	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Speed	HP Part Number	Firmware Version	BIOS	Vendor Part Number	Old HP Part Number	EFI	Boot Image	UEFI	Driver Version	Boot Support	Direct Connect Support
451871-B 21	QLogic	PCle	8Gb	451871-B 21	Loaded By Driver	3.13	QMH2562			2.65.01		9.1.11.23	Y	N
451871-B 21	QLogic	PCle	8Gb	451871-B 21	Loaded By Driver	3.13	QMH2562			2.58AF		9.1.10.27	Y	N
451871-B 21	QLogic	PCle	8Gb	451871-B 21	Loaded By Driver	3.28	QMH2562			3.72.03	6.36	9.1.14.22	Y	N
451871-B 21	QLogic	PCle	8Gb	451871-B 21	Loaded By Driver	3.13	QMH2562			2.58AF		9.1.10.26	Y	N
451871-B 21	QLogic	PCle	8Gb	451871-B 21	Loaded By Driver	3.24	QMH2562			3.71.01		9.1.11.28	Y	N
451871-B 21	QLogic	PCle	8Gb	451871-B 21	Loaded By Driver	3.28	QMH2562			3.71.09		9.1.12.22	Y	N
451871-B 21	QLogic	PCle	8Gb	451871-B 21	Loaded By Driver	3.13	QMH2562				3.60.04	9.1.11.20	Y	N
451871-B 21	QLogic	PCle	8Gb	451871-B 21	Loaded By Driver	3.13	QMH2562			2.65.01		9.1.11.24	Y	N
451871-B 21	QLogic	PCle	8Gb	451871-B 21	Loaded By Driver	3.13	QMH2562			2.65.01		9.1.11.20	Y	N
456972-B 21	Emulex	PCle	8Gb	456972-B 21	2.02x13	3.30 a2	LPe1205			6.20x4	4.13.a14	10.2.261.4	Y	N
456972-B 21	Emulex	PCle	8Gb	456972-B 21	2.02x13	3.30 a2	LPe1205			6.20x4	4.13.a14	10.2.261.4	Y	N
456972-B 21	Emulex	PCle	8Gb	456972-B 21	2.02x13	3.30 a2	LPe1205			6.20x4		10.2.370.8	Y	N
456972-B 21	Emulex	PCle	8Gb	456972-B 21	1.11x7		LPe1205		4.00a8	6.03a11		10.4.246.0	Y	N
456972-B 21	Emulex	PCle	8Gb	456972-B 21	2.02x13	3.30a10	LPe1205			6.20x10		10.4.246.0	Y	N
456972-B 21	Emulex	PCle	8Gb	456972-B 21	2.01 a4	3.20a1	LPe1205			6.10a7		2.74.009.001	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Speed	HP Part Number	Firmware Version	BIOS	Vendor Part Number	Old HP Part Number	EFI	Boot Image	UEFI	Driver Version	Boot Support	Direct Connect Support
456972-B 21	Emulex	PCle	8Gb	456972-B 21	2.00a4		LPe1205			6.03a11		2.72.12.1	Y	N
456972-B 21	Emulex	PCle	8Gb	456972-B 21	2.01 a4	3.20a1	LPe1205			6.10a8		2.74.014.001	Y	N
456972-B 21	Emulex	PCle	8Gb	456972-B 21	2.01a12	3.30a1	LPe1205			6.10a14		2.76.003.001	Y	N
456972-B 21	Emulex	PCle	8Gb	456972-B 21	2.01a12	3.30a2	LPe1205			6.10a15		2.76.003.001	Y	N
456972-B 21	Emulex	PCle	8Gb	456972-B 21	2.01 a4	3.20a1	LPe1205			6.10a8		2.76.002.001-2	Y	N
651281-B 21	QLogic	PCle	8Gb	651281-B 21	Loaded by Driver	3.13	QMH2572			2.59AF		9.1.11.20	Y	N
651281-B 21	QLogic	PCle	8Gb	651281-B 21	Loaded by Driver	3.13	QMH2572			2.59AF		9.1.10.27	Y	N
651281-B 21	QLogic	PCle	8Gb	651281-B 21	Loaded by Driver	3.28	QMH2572			3.72.03	6.36	9.1.14.22	Y	N
651281-B 21	QLogic	PCle	8Gb	651281-B 21	Loaded by Driver	3.13	QMH2572			2.65.01		9.1.11.24	Y	N
651281-B 21	QLogic	PCle	8Gb	651281-B 21	Loaded by Driver	3.28	QMH2572			3.71.09		9.1.12.22	Y	N
651281-B 21	QLogic	PCle	8Gb	651281-B 21	Loaded by Driver	3.24	QMH2572			3.71.01		9.1.11.28	Y	N
651281-B 21	QLogic	PCle	8Gb	651281-B 21	Loaded by Driver	3.13	QMH2572			2.59AF		9.1.10.26	Y	N
651281-B 21	QLogic	PCle	8Gb	651281-B 21	Loaded by Driver	3.13	QMH2572			2.65.01		9.1.11.20	Y	N
651281-B 21	QLogic	PCle	8Gb	651281-B 21	Loaded by Driver	3.13	QMH2572			2.65.01		9.1.11.23	Y	N
710608-B 21	QLogic	PCle	16Gb	710608-B 21	8.00.40	3.28	QMH2672 -HP-SP			5.00.12	6.31	9.1.14.22	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Speed	HP Part Number	Firmware Version	BIOS	Vendor Part Number	Old HP Part Number	EFI	Boot Image	UEFI	Driver Version	Boot Support	Direct Connect Support
710608-B21	QLogic	PCle	16Gb	710608-B21	7.03.01	3.24	QMH2672-HP-SP			4.00.12	6.29	9.1.11.28	Y	N
710608-B21	QLogic	PCle	16Gb	710608-B21	6.07.02	3.21	QMH2672-HP-SP			2.02.47		9.1.11.20	Y	N
710608-B21	QLogic	PCle	16Gb	710608-B21	6.07.02	3.21	QMH2672-HP-SP			2.02.47		9.1.11.24	Y	N
710608-B21	QLogic	PCle	16Gb	710608-B21	6.07.02	3.21	QMH2672-HP-SP				3.90.02	9.1.11.24	Y	N
710608-B21	QLogic	PCle	16Gb	710608-B21	7.04.00	3.28	QMH2672-HP-SP			4.00.19	6.31	9.1.12.22	Y	N
804	Brocade	PCle	8Gb	590647-B21	Loaded by Driver	3.2.5.0	804					3.2.5.0	Y	N
804	Brocade	PCle	8Gb	590647-B21	Loaded by Driver	3.2.1.0	804					3.2.1.0	Y	N
804	Brocade	PCle	8Gb	590647-B21	Loaded by Driver	3.2.1.0	804					3.2.3.1	Y	Only supported on P2000G3
804	Brocade	PCle	8Gb	590647-B21	Loaded by Driver	3.1.0.2	804					3.1.0.0	Y	N
804	Brocade	PCle	8Gb	590647-B21	Loaded by Driver	3.2.1.0	804					3.2.3.0	Y	N
81B	Brocade	PCle	8Gb	AP769A/B	Loaded by Driver	3.2.5.0	815					3.2.5.0	Y	N
81B	Brocade	PCle	8Gb	AP769A/B	Loaded by Driver	3.1.0.2	815					3.1.0.0	Y	N
81B	Brocade	PCle	8Gb	AP769A/B	Loaded by Driver	3.0.3.4	815					3.1.0.0	Y	N
81B	Brocade	PCle	8Gb	AP769A/B	Loaded by Driver	3.2.1.0	815					3.2.3.0	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Speed	HP Part Number	Firmware Version	BIOS	Vendor Part Number	Old HP Part Number	EFI	Boot Image	UEFI	Driver Version	Boot Support	Direct Connect Support
81B	Brocade	PCle	8Gb	AP769A/B	Loaded by Driver	3.2.1.0	815					3.2.3.1	Y	Only supported on P2000G3
81B	Brocade	PCle	8Gb	AP769A/B	Loaded by Driver	3.2.1.0	815					3.2.1.0	Y	N
81e	Emulex	PCle	8Gb	AJ762A/B	2.01 a4	2.12a9	LPe12000			5.20a0		2.74.009.001	Y	Y
81e	Emulex	PCle	8Gb	AJ762A/B	2.02x13	2.12a14	LPe12000			5.20x13	4.13a14	10.2.261.4	Y	Y
81e	Emulex	PCle	8Gb	AJ762A/B	2.02x13	2.20a6	LPe12000			5.21x4	4.20a7	10.4.246.0	Y	Y
81e	Emulex	PCle	8Gb	AJ762A/B	2.02x13	2.12a14	LPe12000			5.20x13	4.13a14	10.2.370.8	Y	Y
81e	Emulex	PCle	8Gb	AJ762A/B	2.01 a4	2.12a9	LPe12000			5.20a2		2.76.002.001-2	Y	Y
81e	Emulex	PCle	8Gb	AJ762A/B	2.01 a4	2.12a9	LPe12000			5.20a2		2.74.014.001	Y	Y
81e	Emulex	PCle	8Gb	AJ762A/B	2.01a12	2.12a14	LPe12000			5.20a6		2.76.003.001	Y	Y
81e	Emulex	PCle	8Gb	AJ762A/B	2.01a12	2.12a14	LPe12000			5.20x7	4.13a8	2.76.003.001	Y	Y
81e	Emulex	PCle	8Gb	AJ762A/B	2.00a4	2.12a9	LPe12000			5.20a0		2.72.12.1	Y	Y
81e	Emulex	PCle	8Gb	AJ762A/B	2.02x13	2.12a14	LPe12000			5.20x13	4.13a14	10.2.261.4	Y	Y
81Q	QLogic	PCle	8Gb	AK344A	Loaded By Driver	3.24	QLE2560			3.71.01	6.32	9.1.11.28	Y	Y
81Q	QLogic	PCle	8Gb	AK344A	Loaded By Driver	3.13	QLE2560			2.65.01		9.1.11.20	Y	Y
81Q	QLogic	PCle	8Gb	AK344A	Loaded By Driver	3.28	QLE2560			3.72.03	6.36	9.1.14.22	Y	Y

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Speed	HP Part Number	Firmware Version	BIOS	Vendor Part Number	Old HP Part Number	EFI	Boot Image	UEFI	Driver Version	Boot Support	Direct Connect Support
81Q	QLogic	PCle	8Gb	AK344A	Loaded By Driver	3.13	QLE2560			2.58AF		9.1.10.27	Y	Y
81Q	QLogic	PCle	8Gb	AK344A	Loaded By Driver	3.13	QLE2560				3.60.04	9.1.11.20	Y	Y
81Q	QLogic	PCle	8Gb	AK344A	Loaded By Driver	3.13	QLE2560			2.65.01		9.1.11.23	Y	Y
81Q	QLogic	PCle	8Gb	AK344A	Loaded By Driver	3.13	QLE2560			2.58AF		9.1.10.26	Y	Y
81Q	QLogic	PCle	8Gb	AK344A	Loaded By Driver	3.13	QLE2560			2.65.01		9.1.11.24	Y	Y
81Q	QLogic	PCle	8Gb	AK344A	Loaded By Driver	3.13	QLE2560			6.23	3.60.02	9.1.11.24	Y	Y
81Q	QLogic	PCle	8Gb	AK344A	5.06.04	2.16	QLE2560			2.39AF		9.1.10.25	Y	Y
81Q	QLogic	PCle	8Gb	AK344A	Loaded By Driver	3.28	QLE2560			3.71.09	6.35	9.1.12.22	Y	Y
82B	Brocade	PCle	8Gb	AP770A/B	Loaded by Driver	3.1.0.2	825					3.1.0.0	Y	N
82B	Brocade	PCle	8Gb	AP770A/B	Loaded by Driver	3.2.1.0	825					3.2.3.1	Y	Only supported on P2000G3
82B	Brocade	PCle	8Gb	AP770A/B	Loaded by Driver	3.2.1.0	825					3.2.3.0	Y	N
82B	Brocade	PCle	8Gb	AP770A/B	Loaded by Driver	3.2.1.0	825					3.2.1.0	Y	N
82B	Brocade	PCle	8Gb	AP770A/B	Loaded by Driver	3.0.3.4	825					3.1.0.0	Y	N
82B	Brocade	PCle	8Gb	AP770A/B	Loaded by Driver	3.2.5.0	825					3.2.5.0	Y	N
82e	Emulex	PCle	8Gb	AJ763A/B	2.02x13	2.20a6	LPe12002			5.21x4	4.20a7	10.4.246.0	Y	Y

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Speed	HP Part Number	Firmware Version	BIOS	Vendor Part Number	Old HP Part Number	EFI	Boot Image	UEFI	Driver Version	Boot Support	Direct Connect Support
82e	Emulex	PCle	8Gb	AJ763A/B	2.01a12	2.12a14	LPe12002			5.20x7	4.13a8	2.76.003.001	Y	Y
82e	Emulex	PCle	8Gb	AJ763A/B	2.00a4	2.12a9	LPe12002			5.20a0		2.72.12.1	Y	Y
82e	Emulex	PCle	8Gb	AJ763A/B	2.01 a4	2.12a9	LPe12002			5.20a2		2.76.002.001-2	Y	Y
82e	Emulex	PCle	8Gb	AJ763A/B	2.01 a4	2.12a9	LPe12002			5.20a0		2.74.009.001	Y	Y
82e	Emulex	PCle	8Gb	AJ763A/B	2.01a12	2.12a14	LPe12002			5.20a6		2.76.003.001	Y	Y
82e	Emulex	PCle	8Gb	AJ763A/B	2.01 a4	2.12a9	LPe12002			5.20a2		2.74.014.001	Y	Y
82e	Emulex	PCle	8Gb	AJ763A/B	2.02x13	2.12a14	LPe12002			5.20x13	4.13a14	10.2.370.8	Y	Y
82e	Emulex	PCle	8Gb	AJ763A/B	2.02x13	2.12a14	LPe12002			5.20x13	4.13a14	10.2.261.4	Y	Y
82e	Emulex	PCle	8Gb	AJ763A/B	2.02x13	2.12a14	LPe12002			5.20x13	4.13a14	10.2.261.4	Y	Y
82Q	QLogic	PCle	8Gb	AJ764A	Loaded By Driver	3.13	QLE2562				3.60.04	9.1.11.20	Y	Y
82Q	QLogic	PCle	8Gb	AJ764A	Loaded By Driver	3.28	QLE2562			3.72.03	6.36	9.1.14.22	Y	Y
82Q	QLogic	PCle	8Gb	AJ764A	Loaded By Driver	3.13	QLE2562			2.65.01		9.1.11.23	Y	Y
82Q	QLogic	PCle	8Gb	AJ764A	Loaded By Driver	3.13	QLE2562			2.65.01		9.1.11.24	Y	Y
82Q	QLogic	PCle	8Gb	AJ764A	Loaded By Driver	3.13	QLE2562			2.58AF		9.1.10.27	Y	Y
82Q	QLogic	PCle	8Gb	AJ764A	5.06.04	2.16	QLE2562			2.39AF		9.1.10.25	Y	Y
82Q	QLogic	PCle	8Gb	AJ764A	Loaded By Driver	3.13	QLE2562			2.58AF		9.1.10.26	Y	Y

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Speed	HP Part Number	Firmware Version	BIOS	Vendor Part Number	Old HP Part Number	EFI	Boot Image	UEFI	Driver Version	Boot Support	Direct Connect Support
82Q	QLogic	PCle	8Gb	AJ764A	Loaded By Driver	3.28	QLE2562			3.71.09	6.35	9.1.12.22	Y	Y
82Q	QLogic	PCle	8Gb	AJ764A	Loaded By Driver	3.24	QLE2562			3.71.01	6.32	9.1.11.28	Y	Y
82Q	QLogic	PCle	8Gb	AJ764A	Loaded By Driver	3.13	QLE2562			6.23	3.60.02	9.1.11.24	Y	Y
82Q	QLogic	PCle	8Gb	AJ764A	Loaded By Driver	3.13	QLE2562			2.65.01		9.1.11.20	Y	Y
FC1142SR	QLogic	PCle	4Gb	AE311A	5.06.04	2.16	QLE2460			1.96AF		9.1.10.25	Y	Y
FC1142SR	QLogic	PCle	4Gb	AE311A	Loaded By Driver	3.13	QLE2460		NA	2.03AF		9.1.11.24	Y	Y
FC1142SR	QLogic	PCle	4Gb	AE311A	Loaded By Driver	3.13	QLE2460		NA	2.03AF		9.1.11.20	Y	Y
FC1142SR	QLogic	PCle	4Gb	AE311A	Loaded By Driver	3.13	QLE2460		NA	2.03AF		9.1.12.22	Y	Y
FC1142SR	QLogic	PCle	4Gb	AE311A	Loaded By Driver	3.13	QLE2460		NA	2.03AF		9.1.11.28	Y	Y
FC1142SR	QLogic	PCle	4Gb	AE311A	Loaded By Driver	3.13	QLE2460		NA	2.03AF		9.1.11.20	Y	Y
FC1142SR	QLogic	PCle	4Gb	AE311A	Loaded By Driver	3.13	QLE2460		NA	2.03AF		9.1.11.23	Y	Y
FC1142SR	QLogic	PCle	4Gb	AE311A	Loaded By Driver	3.13	QLE2460		NA	2.03AF		9.1.10.27	Y	Y
FC1142SR	QLogic	PCle	4Gb	AE311A	Loaded By Driver	3.13	QLE2460		NA	2.03AF		9.1.10.26	Y	Y
FC1143	QLogic	PCI-X 2.0	4Gb	AB429A	Loaded By Driver	3.13	QLA2460			2.03AF		9.1.10.27	Y	Y
FC1143	QLogic	PCI-X 2.0	4Gb	AB429A	Loaded By Driver	3.13	QLA2460			2.03AF		9.1.11.23	Y	Y

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Speed	HP Part Number	Firmware Version	BIOS	Vendor Part Number	Old HP Part Number	EFI	Boot Image	UEFI	Driver Version	Boot Support	Direct Connect Support
FC1143	QLogic	PCI-X 2.0	4Gb	AB429A	5.06.04	2.16	QLA2460			1.96AF		9.1.10.25	Y	Y
FC1143	QLogic	PCI-X 2.0	4Gb	AB429A	Loaded By Driver	3.13	QLA2460			2.03AF		9.1.10.26	Y	Y
FC1143	QLogic	PCI-X 2.0	4Gb	AB429A	Loaded By Driver	3.13	QLA2460			2.03AF		9.1.11.24	Y	Y
FC1143	QLogic	PCI-X 2.0	4Gb	AB429A	Loaded By Driver	3.13	QLA2460			2.03AF		9.1.11.20	Y	Y
FC1143	QLogic	PCI-X 2.0	4Gb	AB429A	Loaded By Driver	3.13	QLA2460			2.03AF		9.1.11.20	Y	Y
FC1242SR	QLogic	PCIe	4Gb	AE312A	Loaded By Driver	3.13	QLE2462			2.03AF		9.1.10.26	Y	Y
FC1242SR	QLogic	PCIe	4Gb	AE312A	5.06.04	2.16	QLE2462			1.96AF		9.1.10.25	Y	Y
FC1242SR	QLogic	PCIe	4Gb	AE312A	Loaded By Driver	3.13	QLE2462			2.03AF		9.1.11.20	Y	Y
FC1242SR	QLogic	PCIe	4Gb	AE312A	Loaded By Driver	3.13	QLE2462			2.03AF		9.1.11.28	Y	Y
FC1242SR	QLogic	PCIe	4Gb	AE312A	Loaded By Driver	3.13	QLE2462			2.03AF		9.1.11.20	Y	Y
FC1242SR	QLogic	PCIe	4Gb	AE312A	Loaded By Driver	3.13	QLE2462			2.03AF		9.1.11.23	Y	Y
FC1242SR	QLogic	PCIe	4Gb	AE312A	Loaded By Driver	3.13	QLE2462			2.03AF		9.1.12.22	Y	Y
FC1242SR	QLogic	PCIe	4Gb	AE312A	Loaded By Driver	3.13	QLE2462			2.03AF		9.1.11.24	Y	Y
FC1242SR	QLogic	PCIe	4Gb	AE312A	Loaded By Driver	3.13	QLE2462			2.03AF		9.1.10.27	Y	Y
FC1243	QLogic	PCI-X 2.0	4Gb	AE369A	5.06.04	2.16	QLA2462			1.96AF		9.1.10.25	Y	Y
FC1243	QLogic	PCI-X 2.0	4Gb	AE369A	Loaded By Driver	3.13	QLA2462			2.03AF		9.1.11.24	Y	Y

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Speed	HP Part Number	Firmware Version	BIOS	Vendor Part Number	Old HP Part Number	EFI	Boot Image	UEFI	Driver Version	Boot Support	Direct Connect Support
FC1243	QLogic	PCI-X 2.0	4Gb	AE369A	Loaded By Driver	3.13	QLA2462			2.03AF		9.1.11.23	Y	Y
FC1243	QLogic	PCI-X 2.0	4Gb	AE369A	Loaded By Driver	3.13	QLA2462			2.03AF		9.1.10.27	Y	Y
FC1243	QLogic	PCI-X 2.0	4Gb	AE369A	Loaded By Driver	3.13	QLA2462			2.03AF		9.1.10.26	Y	Y
FC1243	QLogic	PCI-X 2.0	4Gb	AE369A	Loaded By Driver	3.13	QLA2462			2.03AF		9.1.11.20	Y	Y
FC1243	QLogic	PCI-X 2.0	4Gb	AE369A	Loaded By Driver	3.13	QLA2462			2.03AF		9.1.11.20	Y	Y
FC2142SR	Emulex	PCIe	4Gb	A8002A/B	2.82x4	2.12a9	LPe1150			5.20a0		2.76.002.001-2	Y	Y
FC2142SR	Emulex	PCIe	4Gb	A8002A/B	2.82x4	2.12a9	LPe1150			5.20a0		2.74.014.001	Y	Y
FC2142SR	Emulex	PCIe	4Gb	A8002A/B	2.82x4	2.12a8	LPe1150			5.03 a13		2.72.12.1	Y	Y
FC2142SR	Emulex	PCIe	4Gb	A8002A/B	2.82x4	2.12a9	LPe1150			5.20a0		2.74.009.001	Y	Y
FC2142SR	Emulex	PCIe	4Gb	A8002A/B	2.82x4	2.12a9	LPe1150			5.20a6		10.2.261.4	Y	Y
FC2142SR	Emulex	PCIe	4Gb	A8002A/B	2.82x4	2.12a9	LPe1150			5.20a6		10.2.370.8	Y	Y
FC2142SR	Emulex	PCIe	4Gb	A8002A/B	2.82x4	2.12a9	LPe1150			5.20a0		2.76.003.001	Y	Y
FC2142SR	Emulex	PCIe	4Gb	A8002A/B	2.82x4	2.12a14	LPe1150			5.20a6		10.2.261.4	Y	Y
FC2143	Emulex	PCI-X 2.0	4Gb	AD167A	2.82x4	2.12a9	LP1150			5.20a0		2.74.014.001	Y	Y
FC2143	Emulex	PCI-X 2.0	4Gb	AD167A	2.82x4	2.12a9	LP1150			5.20a0		2.74.009.001	Y	Y

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Speed	HP Part Number	Firmware Version	BIOS	Vendor Part Number	Old HP Part Number	EFI	Boot Image	UEFI	Driver Version	Boot Support	Direct Connect Support
FC2143	Emulex	PCI-X 2.0	4Gb	AD167A	2.82x4	2.12a8	LP1150			5.03 a13		2.72.12.1	Y	Y
FC2143	Emulex	PCI-X 2.0	4Gb	AD167A	2.82x4	2.12a9	LP1150			5.20a0		2.76.003.001	Y	Y
FC2242SR	Emulex	PCIe	4Gb	A8003A/B	2.82x4	2.12a9	LPe11002			5.20a0		2.74.014.001	Y	Y
FC2242SR	Emulex	PCIe	4Gb	A8003A/B	2.82x4	2.12a9	LPe11002			5.20a6		10.2.261.4	Y	Y
FC2242SR	Emulex	PCIe	4Gb	A8003A/B	2.82x4	2.12a9	LPe11002			5.20a6		10.2.370.8	Y	Y
FC2242SR	Emulex	PCIe	4Gb	A8003A/B	2.82x4	2.12a14	LPe11002			5.20a6		10.2.261.4	Y	Y
FC2242SR	Emulex	PCIe	4Gb	A8003A/B	2.82x4	2.12a9	LPe11002			5.20a0		2.76.002.001-2	Y	Y
FC2242SR	Emulex	PCIe	4Gb	A8003A/B	2.82x4	2.12a8	LPe11002			5.03 a13		2.72.12.1	Y	Y
FC2242SR	Emulex	PCIe	4Gb	A8003A/B	2.82x4	2.12a9	LPe11002			5.20a0		2.76.003.001	Y	Y
FC2242SR	Emulex	PCIe	4Gb	A8003A/B	2.82x4	2.12a9	LPe11002			5.20a0		2.74.009.001	Y	Y
FC2243	Emulex	PCI-X 2.0	4Gb	AD168A	2.82x4	2.12a9	LP11002			5.20a0		2.74.014.001	Y	Y
FC2243	Emulex	PCI-X 2.0	4Gb	AD168A	2.82x4	2.12a8	LP11002			5.03 a13		2.72.12.1	Y	Y
FC2243	Emulex	PCI-X 2.0	4Gb	AD168A	2.82x4	2.12a9	LP11002			5.20a0		2.74.009.001	Y	Y
FC2243	Emulex	PCI-X 2.0	4Gb	AD168A	2.82x4	2.12a9	LP11002			5.20a0		2.76.003.001	Y	Y
LPe1205A	Emulex	PCIe	8Gb	659818-B21	2.02x6	3.20a1	LPe1205A			6.10a8		2.74.014.001	Y	N
LPe1205A	Emulex	PCIe	8Gb	659818-B21	2.00a8	3.20a1	LPe1205A			6.10a7		2.74.009.001	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Speed	HP Part Number	Firmware Version	BIOS	Vendor Part Number	Old HP Part Number	EFI	Boot Image	UEFI	Driver Version	Boot Support	Direct Connect Support
LPe1205 A	Emulex	PCle	8Gb	659818-B21	2.02x12	3.30 a2	LPe1205 A			6.20x4	4.13.a14	10.2.261.4	Y	N
LPe1205 A	Emulex	PCle	8Gb	659818-B21	2.02x6	3.20a1	LPe1205 A			6.10a8		2.76.002.001-2	Y	N
LPe1205 A	Emulex	PCle	8Gb	659818-B21	2.02x6	3.30a2	LPe1205 A			6.10a15		2.76.003.001	Y	N
LPe1205 A	Emulex	PCle	8Gb	659818-B21	2.02x12	3.30 a2	LPe1205 A			6.20x4	4.13.a14	10.2.261.4	Y	N
LPe1205 A	Emulex	PCle	8Gb	659818-B21	2.02x12	3.30 a2	LPe1205 A			6.20x4		10.2.370.8	Y	N
LPe1205 A	Emulex	PCle	8Gb	659818-B21	2.02x6	3.30a1	LPe1205 A			6.10a14		2.76.003.001	Y	N
LPe1205 A	Emulex	PCle	8Gb	659818-B21	2.00a8	3.12a3	LPe1205 A			6.10a4		2.72.12.1	Y	N
LPe1605	Emulex	PCle	16Gb	718203-B21	10.5.65.14	Contained in FW	LPe1605					10.4.246.0	Y	N
LPe1605	Emulex	PCle	16Gb	718203-B21	10.2.477.09	Contained in FW	LPe1605					10.2.370.8	Y	N
LPe1605	Emulex	PCle	16Gb	718203-B21	1.1.62.0	Contained in FW	LPe1605					2.76.003.001	Y	N
LPe1605	Emulex	PCle	16Gb	718203-B21	A10.2.340.19	Contained in FW	LPe1605					10.2.261.4	Y	Y
LPe1605	Emulex	PCle	16Gb	718203-B21	A10.2.340.19	Contained in FW	LPe1605					10.2.261.4	Y	N
SN1000E 1P	Emulex	PCle	16Gb	QR558A	1.0.11.110	Contained in FW	LPe16000					2.72.12.1	Y	N
SN1000E 1P	Emulex	PCle	16Gb	QR558A	10.2.477.09	Contained in FW	LPe16000					10.2.370.8	Y	N
SN1000E 1P	Emulex	PCle	16Gb	QR558A	A10.2.340.19	Contained in FW	LPe16000					10.2.261.4	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Speed	HP Part Number	Firmware Version	BIOS	Vendor Part Number	Old HP Part Number	EFI	Boot Image	UEFI	Driver Version	Boot Support	Direct Connect Support
SN1000E 1P	Emulex	PCle	16Gb	QR558A	1.1.21.8	Contained in FW	LPe16000					2.74.009.001	Y	Y
SN1000E 1P	Emulex	PCle	16Gb	QR558A	10.5.65.14	Contained in FW	LPe16000					10.4.246.0	Y	N
SN1000E 1P	Emulex	PCle	16Gb	QR558A	1.1.62.0	Contained in FW	LPe16000					2.76.003.001	Y	Y
SN1000E 1P	Emulex	PCle	16Gb	QR558A	1.1.43.6	Contained in FW	LPe16000					2.76.002.001-2	Y	Y
SN1000E 1P	Emulex	PCle	16Gb	QR558A	1.1.65.101	Contained in FW	LPe16000					2.76.003.001	Y	Y
SN1000E 1P	Emulex	PCle	16Gb	QR558A	A10.2.340.19	Contained in FW	LPe16000					10.2.261.4	Y	N
SN1000E 2P	Emulex	PCle	16Gb	QR559A	A10.2.340.19	Contained in FW	LPe16002					10.2.261.4	Y	N
SN1000E 2P	Emulex	PCle	16Gb	QR559A	A10.2.340.19	Contained in FW	LPe16002					10.2.261.4	Y	N
SN1000E 2P	Emulex	PCle	16Gb	QR559A	10.5.65.14	Contained in FW	LPe16002					10.4.246.0	Y	N
SN1000E 2P	Emulex	PCle	16Gb	QR559A	1.1.65.101	Contained in FW	LPe16002					2.76.003.001	Y	Y
SN1000E 2P	Emulex	PCle	16Gb	QR559A	1.1.43.6	Contained in FW	LPe16002					2.76.002.001-2	Y	Y
SN1000E 2P	Emulex	PCle	16Gb	QR559A	1.1.62.0	Contained in FW	LPe16002					2.76.003.001	Y	Y
SN1000E 2P	Emulex	PCle	16Gb	QR559A	1.0.11.110	Contained in FW	LPe16002					2.72.12.1	Y	N
SN1000E 2P	Emulex	PCle	16Gb	QR559A	1.1.21.8	Contained in FW	LPe16002					2.74.009.001	Y	Y
SN1000E 2P	Emulex	PCle	16Gb	QR559A	10.2.477.09	Contained in FW	LPe16002					10.2.370.8	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Speed	HP Part Number	Firmware Version	BIOS	Vendor Part Number	Old HP Part Number	EFI	Boot Image	UEFI	Driver Version	Boot Support	Direct Connect Support
SN1000Q 1P	QLogic	PCle	16Gb	QW971A	6.02.00	3.14	QLE2660		NA	2.00.47		9.1.10.26	Y	Y
SN1000Q 1P	QLogic	PCle	16Gb	QW971A	8.00.40	3.28	QLE2660			5.00.12	6.31	9.1.14.22	Y	Y
SN1000Q 1P	QLogic	PCle	16Gb	QW971A	6.07.02	3.21	QLE2660		NA	6.20	3.90.01	9.1.11.24	Y	Y
SN1000Q 1P	QLogic	PCle	16Gb	QW971A	6.07.02	3.21	QLE2660				3.90.02	9.1.11.24	Y	Y
SN1000Q 1P	QLogic	PCle	16Gb	QW971A	7.03.01	3.24	QLE2660			4.00.12	6.29	9.1.11.28	Y	Y
SN1000Q 1P	QLogic	PCle	16Gb	QW971A	7.04.00	3.28	QLE2660			4.00.19	6.31	9.1.12.22	Y	Y
SN1000Q 1P	QLogic	PCle	16Gb	QW971A	6.07.02	3.21	QLE2660		NA	2.02.47		9.1.11.24	Y	Y
SN1000Q 1P	QLogic	PCle	16Gb	QW971A	6.07.02	3.21	QLE2660		NA	2.02.47		9.1.11.23	Y	Y
SN1000Q 1P	QLogic	PCle	16Gb	QW971A	6.07.02	3.21	QLE2660		NA	2.02.47		9.1.11.20	Y	Y
SN1000Q 2P	QLogic	PCle	16Gb	QW972A	6.02.00	3.14	QLE2662		NA	2.00.47		9.1.10.26	Y	Y
SN1000Q 2P	QLogic	PCle	16Gb	QW972A	8.00.40	3.28	QLE2662			5.00.12	6.31	9.1.14.22	Y	Y
SN1000Q 2P	QLogic	PCle	16Gb	QW972A	6.07.02	3.21	QLE2662		NA	2.02.47		9.1.11.20	Y	Y
SN1000Q 2P	QLogic	PCle	16Gb	QW972A	6.07.02	3.21	QLE2662		NA	2.02.47		9.1.11.24	Y	Y
SN1000Q 2P	QLogic	PCle	16Gb	QW972A	6.07.02	3.21	QLE2662		NA	6.20	3.90.01	9.1.11.24	Y	Y
SN1000Q 2P	QLogic	PCle	16Gb	QW972A	6.07.02	3.21	QLE2662		NA	2.02.47		9.1.11.23	Y	Y

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Speed	HP Part Number	Firmware Version	BIOS	Vendor Part Number	Old HP Part Number	EFI	Boot Image	UEFI	Driver Version	Boot Support	Direct Connect Support
SN1000Q 2P	QLogic	PCle	16Gb	QW972A	7.04.00	3.28	QLE2662			4.00.19	6.31	9.1.12.22	Y	Y
SN1000Q 2P	QLogic	PCle	16Gb	QW972A	6.07.02	3.21	QLE2662				3.90.02	9.1.11.24	Y	Y
SN1000Q 2P	QLogic	PCle	16Gb	QW972A	7.03.01	3.24	QLE2662			4.00.12	6.29	9.1.11.28	Y	Y
SN1100E 1P	Emulex	PCle	16Gb	C8R38A	10.5.65.14	Included in firmware	LPe16000b					10.4.246.0	Y	N
SN1100E 1P	Emulex	PCle	16Gb	C8R38A	1.1.43.6	Included in firmware	LPe16000b					2.74.014.001	Y	Y
SN1100E 1P	Emulex	PCle	16Gb	C8R38A	10.2.477.09	Included in firmware	LPe16000b					10.2.370.8	Y	N
SN1100E 1P	Emulex	PCle	16Gb	C8R38A	A10.2.340.19	Included in firmware	LPe16000b					10.2.261.4	Y	N
SN1100E 1P	Emulex	PCle	16Gb	C8R38A	1.1.65.101	Included in firmware	LPe16000b					2.76.003.001	Y	Y
SN1100E 1P	Emulex	PCle	16Gb	C8R38A	1.1.43.6	Included in firmware	LPe16000b					2.76.002.001-2	Y	Y
SN1100E 1P	Emulex	PCle	16Gb	C8R38A	A10.2.340.19	Included in firmware	LPe16000b					10.2.261.4	Y	N
SN1100E 1P	Emulex	PCle	16Gb	C8R38A	1.1.62.0	Included in firmware	LPe16000b					2.76.003.001	Y	Y
SN1100E 2P	Emulex	PCle	16Gb	C8R39A	10.5.65.14	Included in firmware	LPe16002b					10.4.246.0	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Speed	HP Part Number	Firmware Version	BIOS	Vendor Part Number	Old HP Part Number	EFI	Boot Image	UEFI	Driver Version	Boot Support	Direct Connect Support
SN1100E 2P	Emulex	PCIe	16Gb	C8R39A	A10.2.340.19	Included in firmware	LPe16002b					10.2.261.4	Y	N
SN1100E 2P	Emulex	PCIe	16Gb	C8R39A	10.2.477.09	Included in firmware	LPe16002b					10.2.370.8	Y	N
SN1100E 2P	Emulex	PCIe	16Gb	C8R39A	1.1.43.6	Included in firmware	LPe16002b					2.74.014.001	Y	Y
SN1100E 2P	Emulex	PCIe	16Gb	C8R39A	1.1.43.6	Included in firmware	LPe16002b					2.76.002.001-2	Y	Y
SN1100E 2P	Emulex	PCIe	16Gb	C8R39A	1.1.62.0	Included in firmware	LPe16002b					2.76.003.001	Y	Y
SN1100E 2P	Emulex	PCIe	16Gb	C8R39A	A10.2.340.19	Included in firmware	LPe16002b					10.2.261.4	Y	N
SN1100E 2P	Emulex	PCIe	16Gb	C8R39A	1.1.65.101	Included in firmware	LPe16002b					2.76.003.001	Y	Y

Notes:

General Host Bus Adapter (HBA) (234) Notes:

- 1) Emulex 4Gb HBAs LP11000 and LPe11000 are also supported using the same driver/firmware/bios combinations stated as supported for FC2143/LP1150 and FC2142SR/LPe1150 respectively.
- 2) Windows Server 2012 R2 supported from the following driver versions. These drivers are not supported with Windows Server 2012 non-R2:
 - 2a) Emulex: 2.76.002.001-2 (OOB)
 - 2b) Qlogic: 9.1.11.23 (OOB)
- 3) Windows Server 2012 R2 supported from Brocade driver version 3.2.3.0 (Inbox).

Converged Network Adapter (CNA) (207)

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Ethernet Speed	FC Speed	HP Part Number	3PO Part Number	Vendor Part Number	CEE Firmware	FC Firmware	BIOS	EFI	Boot Image	Firmware	UEFI	NIC Driver Version	Driver Version	Boot Support	Direct Connect Support
526FLR	HP	LOM	10GbE		629138-B21		QDH8252-HP-SP			3.24		2.70.22	4.16.50		5.3.27.0606	9.1.11.16	Y	N
526FLR	HP	LOM	10GbE		629138-B21		QDH8252-HP-SP			3.28		2.70.35	4.18.04		5.3.30.1001	9.1.12.10	Y	N
526FLR	HP	LOM	10GbE		629138-B21		QDH8252-HP-SP			3.28		2.70.35	4.18.04		5.3.30.1001	9.1.13.10	Y	N
526FLR	HP	LOM	10GbE		629138-B21		QDH8252-HP-SP					2.60.06	4.14.28		5.3.10.1101	9.1.11.14	Y	N
526FLR	HP	LOM	10GbE		629138-B21		QDH8252-HP-SP					01.13.51	4.14.26		5.3.10.0808	9.1.11.11	Y	N
526FLR	HP	LOM	10GbE		629138-B21		QDH8252-HP-SP					01.13.51	4.14.26		5.3.10.0808		Y	N
526FLR	HP	LOM	10GbE		629138-B21		QDH8252-HP-SP					01.13.23	4.14.25		4.7.28.0523	9.1.10.19	Y	N
534FLB	HP	LOM	10GbE		700741-B21								7.10.10		7.10.6.0c	7.10.3.0	Y	N
534FLB	HP	LOM	10GbE		700741-B21								7.8.24		7.8.51.0b		Y	N
534FLB	HP	LOM	10GbE		700741-B21								7.10.10		7.10.6.0c	7.10.3.0	Y	N
534FLB	HP	LOM	10GbE		700741-B21								7.10.10		7.10.6.0c	7.10.3.0	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Ethernet Speed	FC Speed	HP Part Number	3PO Part Number	Vendor Part Number	CEE Firmware	FC Firmware	BIOS	EFI	Boot Image	Firmware	UEFI	NIC Driver Version	Driver Version	Boot Support	Direct Connect Support
534FLB	HP	LOM	10GbE		700741-B21					Contained in FW			7.8.24		7.8.21	7.8.12.0	Y	N
534FLB	HP	LOM	10GbE		700741-B21					Contained in FW			7.10.37		7.10.30.0b	7.10.31.0	Y	N
534FLB	HP	LOM	10GbE		700741-B21					Contained in FW			7.10.72	7.11.7	7.10.71.0b	7.10.73.0	Y	N
534FLB	HP	LOM	10GbE		700741-B21					Contained in FW			7.10.39		7.10.30.0b	7.10.31.0	Y	N
534FLB	HP	LOM	10GbE		700741-B21					Contained in FW			7.8.24		7.8.51.0b	7.8.12.0	Y	N
534FLB	HP	LOM	10GbE		700741-B21					Contained in FW			7.8.79		7.8.52.0e	7.8.75.0	Y	N
534FLR	HP	LOM	10GbE		700751-B21					Contained in FW			7.10.39		7.10.30.0b	7.10.31.0	Y	N
534FLR	HP	LOM	10GbE		700751-B21					Contained in FW			7.8.79		7.8.52.0e	7.8.75.0	Y	N
534FLR	HP	LOM	10GbE		700751-B21					Contained in FW			7.10.72	7.11.7	7.10.71.0b	7.10.73.0	Y	N
534FLR	HP	LOM	10GbE		700751-B21					Contained in FW			7.10.37		7.10.30.0b	7.10.31.0	Y	N
534FLR	HP	LOM	10GbE		700751-B21					Contained in FW			7.8.24		7.8.51.0b		Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Ethernet Speed	FC Speed	HP Part Number	3PO Part Number	Vendor Part Number	CEE Firmware	FC Firmware	BIOS	EFI	Boot Image	Firmware	UEFI	NIC Driver Version	Driver Version	Boot Support	Direct Connect Support
534FLR	HP	LOM	10GbE		700751-B21					Contained in FW			7.10.10		7.10.6.0c	7.10.3.0	Y	N
534FLR	HP	LOM	10GbE		700751-B21					Contained in FW			7.10.10		7.10.6.0c	7.10.3.0	Y	N
534FLR	HP	LOM	10GbE		700751-B21					Contained in FW			7.10.10		7.10.6.0c	7.10.3.0	Y	N
534FLR	HP	LOM	10GbE		700751-B21					Contained in FW			7.8.24		7.8.51.0b	7.8.12.0	Y	N
534FLR	HP	LOM	10GbE		700751-B21					Contained in FW			7.8.24		7.8.21	7.8.12.0	Y	N
534M	HP	PCIe	10 GbE		700748-B21					Contained in FW			7.10.10		7.10.6.0c	7.10.3.0	Y	N
534M	HP	PCIe	10 GbE		700748-B21					Contained in FW			7.8.24		7.8.21	7.8.12.0	Y	N
534M	HP	PCIe	10 GbE		700748-B21					Contained in FW			7.10.10		7.10.6.0c	7.10.3.0	Y	N
534M	HP	PCIe	10 GbE		700748-B21					Contained in FW			7.10.10		7.10.6.0c	7.10.3.0	Y	N
534M	HP	PCIe	10 GbE		700748-B21					Contained in FW			7.8.24		7.8.51.0b	7.8.12.0	Y	N
534M	HP	PCIe	10 GbE		700748-B21					Contained in FW			7.10.39		7.10.30.0b	7.10.31.0	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Ethernet Speed	FC Speed	HP Part Number	3PO Part Number	Vendor Part Number	CEE Firmware	FC Firmware	BIOS	EFI	Boot Image	Firmware	UEFI	NIC Driver Version	Driver Version	Boot Support	Direct Connect Support
534M	HP	PCIe	10 GbE		700748-B21					Contained in FW			7.10.37		7.10.30.0b	7.10.31.0	Y	N
534M	HP	PCIe	10 GbE		700748-B21					Contained in FW			7.10.72	7.11.7	7.10.71.0b	7.10.73.0	Y	N
534M	HP	PCIe	10 GbE		700748-B21					Contained in FW			7.8.24		7.8.51.0b		Y	N
534M	HP	PCIe	10 GbE		700748-B21					Contained in FW			7.8.79		7.8.52.0e	7.8.75.0	Y	N
536FLB	HP	LOM	10GbE		766488-001		BCM957840A4004GHP2			Contained in FW			7.10.72	7.11.7	7.10.71.0b	7.10.73.0	Y	N
536FLB	HP	LOM	10GbE		766488-001		BCM957840A4004GHP2			Contained in FW			7.10.37		7.10.30.0b	7.10.31.0	Y	N
554FLB	HP	LOM	10GbE							Contained in FW			4.2.401.605		4.2.390.6	2.74.009.001	Y	N
554FLB	HP	LOM	10GbE							Contained in FW			4.2.401.6		4.2.390.6	2.74.009.001	Y	N
554FLB	HP	LOM	10GbE							Contained in FW			4.1.450.16		4.2.313.0	2.72.012	Y	N
554FLB	HP	LOM	10GbE		647586-B21					Contained in FW			10.5.65.21		10.5.65.6	10.4.246.0	Y	N
554FLB	HP	LOM	10GbE							Contained in FW			4.1.450.1707		4.2.313.0	2.72.012	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Ethernet Speed	FC Speed	HP Part Number	3PO Part Number	Vendor Part Number	CEE Firmware	FC Firmware	BIOS	EFI	Boot Image	Firmware	UEFI	NIC Driver Version	Driver Version	Boot Support	Direct Connect Support
554FLB	HP	LOM	10GbE							Contained in FW			4.2.401.2215		4.2.390.6	2.74.009.001	Y	N
554FLB	HP	LOM	10GbE							Contained in FW			4.1.450.7			2.72.12.1	Y	N
554FLB	HP	LOM	10GbE							Contained in FW			4.9.416.0		10.0.430.1109-2	2.76.003.001	Y	N
554FLB	HP	LOM	10GbE		647586-B21					Contained in FW			10.2.477.10		10.2.478.1	10.2.370.8	Y	N
554FLB	HP	LOM	10GbE							Contained in FW			4.9.311.20		10.0.430.1109-2	2.76.003.001	Y	N
554FLB	HP	LOM	10GbE							Contained in FW			10.2.340.19		10.2.298.37	10.2.261.4	Y	N
554FLB	HP	LOM	10GbE							Contained in FW			4.6.247.5		10.0.430.1003-3	2.76.002.001-2	Y	N
554FLB	HP	LOM	10GbE							Contained in FW			4.6.247.5		4.6.203.1	2.74.014.001	Y	N
554FLB	HP	LOM	10GbE							Contained in FW			4.6.247.5		10.0.430.1003-3		Y	N
554FLR	HP	LOM	10GbE							Contained in FW			4.9.416.0		10.0.430.1109-2	2.76.003.001	Y	N
554FLR	HP	LOM	10GbE							Contained in FW			10.2.340.19		10.2.298.37	10.2.261.4	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Ethernet Speed	FC Speed	HP Part Number	3PO Part Number	Vendor Part Number	CEE Firmware	FC Firmware	BIOS	EFI	Boot Image	Firmware	UEFI	NIC Driver Version	Driver Version	Boot Support	Direct Connect Support
554FLR	HP	LOM	10GbE							Contained in FW			4.6.247.5		4.6.203.1	2.74.01.4001	Y	N
554FLR	HP	LOM	10GbE		629142-B21					Contained in FW			10.5.65.21		10.5.65.6	10.4.24.6.0	Y	N
554FLR	HP	LOM	10GbE		629142-B21					Contained in FW			10.2.47.7.10		10.2.47.8.1	10.2.37.0.8	Y	N
554FLR	HP	LOM	10GbE							Contained in FW			4.9.311.20		10.0.43.0.1109-2	2.76.00.3.001	Y	N
554FLR	HP	LOM	10GbE							Contained in FW			4.2.401.6		4.2.390.6	2.74.00.9.001	Y	N
554FLR	HP	LOM	10GbE							Contained in FW			4.2.401.605		4.2.390.6	2.74.00.9.001	Y	N
554FLR	HP	LOM	10GbE							Contained in FW			4.1.450.1707		4.2.313.0	2.72.01.2	Y	N
554FLR	HP	LOM	10GbE							Contained in FW			4.2.401.2215		4.2.390.6	2.74.00.9.001	Y	N
554FLR	HP	LOM	10GbE							Contained in FW			4.6.247.5		10.0.43.0.1003-3	2.76.00.2.001-2	Y	N
554FLR	HP	LOM	10GbE							Contained in FW			4.6.247.5		10.0.43.0.1003-3		Y	N
554FLR	HP	LOM	10GbE							Contained in FW			4.1.450.16		4.2.313.0	2.72.01.2	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Ethernet Speed	FC Speed	HP Part Number	3PO Part Number	Vendor Part Number	CEE Firmware	FC Firmware	BIOS	EFI	Boot Image	Firmware	UEFI	NIC Driver Version	Driver Version	Boot Support	Direct Connect Support
554FLR	HP	LOM	10GbE							Contained in FW			4.1.450.7			2.72.12.1	Y	N
554M	HP	PCIe	10 GbE		647590-B21					Contained in FW			4.6.247.5		10.0.43.0.1003-3		Y	N
554M	HP	PCIe	10 GbE		647590-B21					Contained in FW			4.1.450.1707		4.2.313.0	2.72.01.2	Y	N
554M	HP	PCIe	10 GbE		647590-B21					Contained in FW			4.6.247.5		4.6.203.1	2.74.01.4.001	Y	N
554M	HP	PCIe	10 GbE		647590-B21					Contained in FW			10.5.65.21		10.5.65.6	10.4.24.6.0	Y	N
554M	HP	PCIe	10 GbE		647590-B21					Contained in FW			4.6.247.5		10.0.43.0.1003-3	2.76.00.2.001-2	Y	N
554M	HP	PCIe	10 GbE		647590-B21					Contained in FW			4.2.401.6		4.2.390.6	2.74.00.9.001	Y	N
554M	HP	PCIe	10 GbE		647590-B21					Contained in FW			4.9.416.0		10.0.43.0.1109-2	2.76.00.3.001	Y	N
554M	HP	PCIe	10 GbE		647590-B21					Contained in FW			4.2.401.2215		4.2.390.6	2.74.00.9.001	Y	N
554M	HP	PCIe	10 GbE		647590-B21					Contained in FW			10.2.47.7.10		10.2.47.8.1	10.2.37.0.8	Y	N
554M	HP	PCIe	10 GbE		647590-B21					Contained in FW			10.2.34.0.19		10.2.29.8.37	10.2.26.1.4	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Ethernet Speed	FC Speed	HP Part Number	3PO Part Number	Vendor Part Number	CEE Firmware	FC Firmware	BIOS	EFI	Boot Image	Firmware	UEFI	NIC Driver Version	Driver Version	Boot Support	Direct Connect Support
554M	HP	PCIe	10 GbE		647590-B21					Contained in FW			4.1.450.16		4.2.313.0	2.72.012	Y	N
554M	HP	PCIe	10 GbE		647590-B21					Contained in FW			4.2.401.605		4.2.390.6	2.74.009.001	Y	N
554M	HP	PCIe	10 GbE		647590-B21					Contained in FW			4.9.311.20		10.0.430.1109-2	2.76.003.001	Y	N
554M	HP	PCIe	10 GbE		647590-B21					Contained in FW			4.1.450.7			2.72.12.1	Y	N
556FL R-SFP+	HP	LOM	10GbE		727060-B21					Contained in FW			10.5.65.21		10.5.65.6	10.4.246.0	Y	N
556FL R-SFP+	HP	LOM	10GbE		727060-B21					Contained in FW			10.2.340.22		10.2.298.37	10.2.261.4	Y	N
556FL R-SFP+	HP	LOM	10GbE		727060-B21					Contained in FW			10.2.477.23		10.2.478.1	10.2.370.8	Y	N
556FL R-SFP+	HP	LOM	10GbE		727060-B21					Contained in FW			10.2.340.19		10.2.298.37	10.2.261.4	Y	N
630FL B	HP	LOM	20GbE		700065-B21					Contained in FW			7.10.72	7.11.7	7.10.71.0b	7.10.73.0	Y	N
630FL B	HP	LOM	20GbE		700065-B21					Contained in FW			7.10.10		7.10.6.0c	7.10.3.0	Y	N
630FL B	HP	LOM	20GbE		700065-B21					Contained in FW			7.10.37		7.10.30.0b	7.10.31.0	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Ethernet Speed	FC Speed	HP Part Number	3PO Part Number	Vendor Part Number	CEE Firmware	FC Firmware	BIOS	EFI	Boot Image	Firmware	UEFI	NIC Driver Version	Driver Version	Boot Support	Direct Connect Support
630FLB	HP	LOM	20GbE		700065-B21					Contained in FW			7.10.39		7.10.30.0b	7.10.31.0	Y	N
630FLB	HP	LOM	20GbE		700065-B21					Contained in FW			7.10.10		7.10.6.0c	7.10.3.0	Y	N
630M	HP	PCIe	20 GbE		700076-B21					Contained in FW			7.10.37		7.10.30.0b	7.10.31.0	Y	N
630M	HP	PCIe	20 GbE		700076-B21					Contained in FW			7.10.72	7.11.7	7.10.71.0b	7.10.73.0	Y	N
630M	HP	PCIe	20 GbE		700076-B21					Contained in FW			7.10.39		7.10.30.0b	7.10.31.0	Y	N
630M	HP	PCIe	20 GbE		700076-B21					Contained in FW			7.10.10		7.10.6.0c	7.10.3.0	Y	N
630M	HP	PCIe	20 GbE		700076-B21					Contained in FW			7.10.10		7.10.6.0c	7.10.3.0	Y	N
650FLB	HP	LOM	20GbE		700763-B21					Contained in FW			10.5.65.21		10.5.65.6	10.4.24.6.0	Y	N
650FLB	HP	LOM	20GbE		700763-B21					Contained in FW			10.2.47.7.23		10.2.47.8.1	10.2.37.0.8	Y	N
650FLB	HP	LOM	20GbE		700763-B21					Contained in FW			10.2.34.0.22		10.2.29.8.37	10.2.26.1.4	Y	Only 3PAR
650M	HP	PCIe	20 GbE		700767-B21					Contained in FW			10.2.47.7.23		10.2.47.8.1	10.2.37.0.8	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Ethernet Speed	FC Speed	HP Part Number	3PO Part Number	Vendor Part Number	CEE Firmware	FC Firmware	BIOS	EFI	Boot Image	Firmware	UEFI	NIC Driver Version	Driver Version	Boot Support	Direct Connect Support
650M	HP	PCIe	20 GbE		700767-B21					Contained in FW			10.2.34.022		10.2.29.8.37	10.2.26.1.4	Y	Only 3PAR
650M	HP	PCIe	20 GbE		700767-B21					Contained in FW			10.5.65.21		10.5.65.6	10.4.24.6.0	Y	N
CN1000E	HP	PCIe	10 GbE		AW520 A/B					Contained in FW			4.1.450.16		4.2.313.0	2.72.01.2	Y	N
CN1000E	HP	PCIe	10 GbE		AW520 A/B					Contained in FW			4.1.450.7			2.72.12.1	Y	N
CN1000E	HP	PCIe	10 GbE		AW520 A/B					Contained in FW			4.9.416.7		10.2.47.8.1	10.2.37.0.8	Y	Y
CN1000E	HP	PCIe	10 GbE		AW520 A/B					Contained in FW			4.2.401.6		4.2.390.6	2.74.00.9.001	Y	N
CN1000E	HP	PCIe	10 GbE		AW520 A/B					Contained in FW			4.9.416.2		10.2.47.8.1	10.2.37.0.8	Y	N
CN1000E	HP	PCIe	10 GbE		AW520 A/B					Contained in FW			4.9.311.20		10.0.43.0.1109-2	2.76.00.3.001	Y	N
CN1000E	HP	PCIe	10 GbE		AW520 A/B					Contained in FW			4.9.416.0		10.0.43.0.1109-2	2.76.00.3.001	Y	N
CN1000E	HP	PCIe	10 GbE		AW520 A/B					Contained in FW			4.9.416.2		10.2.29.8.37	10.2.26.1.4	Y	N
CN1000E	HP	PCIe	10 GbE		AW520 A/B					Contained in FW			4.6.247.5		10.0.43.0.1003-3	2.76.00.2.001-2	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Ethernet Speed	FC Speed	HP Part Number	3PO Part Number	Vendor Part Number	CEE Firmware	FC Firmware	BIOS	EFI	Boot Image	Firmware	UEFI	NIC Driver Version	Driver Version	Boot Support	Direct Connect Support
CN1000E	HP	PCIe	10 GbE		AW520 A/B					Contained in FW			4.6.247.5		10.0.430.1003-3		Y	N
CN1000E	HP	PCIe	10 GbE		AW520 A/B					Contained in FW			4.1.450.1707		4.2.313.0	2.72.012	Y	N
CN1000E	HP	PCIe	10 GbE		AW520 A/B					Contained in FW			4.2.401.2215		4.2.390.6	2.74.009.001	Y	N
CN1000E	HP	PCIe	10 GbE		AW520 A/B					Contained in FW			4.6.247.5		4.6.203.1	2.74.014.001	Y	N
CN1000E	HP	PCIe	10 GbE		AW520 A/B					Contained in FW			4.2.401.605		4.2.390.6	2.74.009.001	Y	N
CN1000Q	HP	PCIe	10 GbE		BS668 A							1.11.35	4.12.11		4.7.19.1023	9.1.10.16	Y	N
CN1000Q	HP	PCIe	10 GbE		BS668 A				3.28			2.70.35	4.18.04		5.3.30.1001	9.1.12.10	Y	N
CN1000Q	HP	PCIe	10 GbE		BS668 A				3.28			2.70.35	4.18.04		5.3.30.1001	9.1.13.10	Y	N
CN1000Q	HP	PCIe	10 GbE		BS668 A							01.13.23	4.14.25		4.7.28.0523	9.1.10.19	Y	N
CN1000Q	HP	PCIe	10 GbE		BS668 A							2.60.06	4.14.28		5.3.10.1101	9.1.11.14	Y	N
CN1000Q	HP	PCIe	10 GbE		BS668 A				3.24			2.70.22	4.16.50		5.3.27.0606	9.1.11.16	Y	N
CN1000Q	HP	PCIe	10 GbE		BS668 A							01.13.51	4.14.26		5.3.10.0808		Y	N
CN1000Q	HP	PCIe	10 GbE		BS668 A							01.13.51	4.14.26		5.3.10.0808	9.1.11.11	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Ethernet Speed	FC Speed	HP Part Number	3PO Part Number	Vendor Part Number	CEE Firmware	FC Firmware	BIOS	EFI	Boot Image	Firmware	UEFI	NIC Driver Version	Driver Version	Boot Support	Direct Connect Support
CN1100E	HP	PCIe	10 GbE		BK835A					Contained in FW			10.5.65.21		10.5.65.6	10.4.24.6.0	Y	N
CN1100E	HP	PCIe	10 GbE		BK835A					Contained in FW			4.1.450.1707		4.2.313.0	2.72.01.2	Y	N
CN1100E	HP	PCIe	10 GbE		BK835A					Contained in FW			4.2.401.2215		4.2.390.6	2.74.00.9.001	Y	N
CN1100E	HP	PCIe	10 GbE		BK835A					Contained in FW			4.6.247.5		10.0.43.0.1003-3		Y	N
CN1100E	HP	PCIe	10 GbE		BK835A					Contained in FW			4.9.416.0		10.0.43.0.1109-2	2.76.00.3.001	Y	N
CN1100E	HP	PCIe	10 GbE		BK835A					Contained in FW			10.2.34.0.19		10.2.29.8.37	10.2.26.1.4	Y	N
CN1100E	HP	PCIe	10 GbE		BK835A					Contained in FW			4.6.247.5		10.0.43.0.1003-3	2.76.00.2.001-2	Y	N
CN1100E	HP	PCIe	10 GbE		BK835A					Contained in FW			10.2.47.7.10		10.2.47.8.1	10.2.37.0.8	Y	N
CN1100E	HP	PCIe	10 GbE		BK835A					Contained in FW			4.2.401.605		4.2.390.6	2.74.00.9.001	Y	N
CN1100E	HP	PCIe	10 GbE		BK835A					Contained in FW			4.2.401.6		4.2.390.6	2.74.00.9.001	Y	N
CN1100E	HP	PCIe	10 GbE		BK835A					Contained in FW			4.1.450.16		4.2.313.0	2.72.01.2	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Ethernet Speed	FC Speed	HP Part Number	3PO Part Number	Vendor Part Number	CEE Firmware	FC Firmware	BIOS	EFI	Boot Image	Firmware	UEFI	NIC Driver Version	Driver Version	Boot Support	Direct Connect Support
CN1100E	HP	PCIe	10 GbE		BK835A					Contained in FW			4.9.311.20		10.0.430.1109-2	2.76.003.001	Y	N
CN1100E	HP	PCIe	10 GbE		BK835A					Contained in FW			4.1.450.7			2.72.12.1	Y	N
CN1100E	HP	PCIe	10 GbE		BK835A					Contained in FW			4.6.247.5		4.6.203.1	2.74.014.001	Y	N
CN1100R	HP	PCIe	10 GbE		QW990A					Contained in FW			7.10.10		7.10.6.0c	7.10.3.0	Y	N
CN1100R	HP	PCIe	10 GbE		QW990A					Contained in FW			7.10.37		7.10.30.0b	7.10.31.0	Y	N
CN1100R	HP	PCIe	10 GbE		QW990A					Contained in FW			7.10.10		7.10.6.0c	7.10.3.0	Y	N
CN1100R	HP	PCIe	10 GbE		QW990A					Contained in FW			7.8.24		7.8.51.0b	7.8.12.0	Y	N
CN1100R	HP	PCIe	10 GbE		QW990A					Contained in FW			7.10.39		7.10.30.0b	7.10.31.0	Y	N
CN1100R	HP	PCIe	10 GbE		QW990A					Contained in FW			7.8.24		7.8.21	7.8.12.0	Y	N
CN1100R	HP	PCIe	10 GbE		QW990A					Contained in FW			7.8.24		7.8.51.0b		Y	N
CN1100R	HP	PCIe	10 GbE		QW990A					Contained in FW			7.10.10		7.10.6.0c	7.10.3.0	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Ethernet Speed	FC Speed	HP Part Number	3PO Part Number	Vendor Part Number	CEE Firmware	FC Firmware	BIOS	EFI	Boot Image	Firmware	UEFI	NIC Driver Version	Driver Version	Boot Support	Direct Connect Support
CN110OR	HP	PCIe	10 GbE		QW990A					Contained in FW			7.8.79		7.8.52.0e	7.8.75.0	Y	N
CN110OR	HP	PCIe	10 GbE		QW990A					Contained in FW			7.10.72	7.11.7	7.10.71.0b	7.10.73.0	Y	N
CN1200E	HP	PCIe	10 GbE		E7Y06A					Contained in FW			10.2.47.7.23		10.2.47.8.1	10.2.37.0.8	Y	N
CN1200E	HP	PCIe	10 GbE		E7Y06A					Contained in FW			10.2.34.0.19		10.2.29.8.37	10.2.26.1.4	Y	N
CN1200E	HP	PCIe	10 GbE		E7Y06A					Contained in FW			10.5.65.21		10.5.65.6	10.4.24.6.0	Y	N
CN1200E	HP	PCIe	10 GbE		E7Y06A					Contained in FW			10.2.34.0.22		10.2.29.8.37	10.2.26.1.4	Y	N
NC551i	HP	LOM	10GbE							Contained in FW			4.9.416.7		10.2.47.8.1	10.2.37.0.8	Y	Y
NC551i	HP	LOM	10GbE							Contained in FW			4.6.247.5		10.0.43.0.1003-3		Y	N
NC551i	HP	LOM	10GbE							Contained in FW			4.9.416.2		10.2.29.8.37	10.2.26.1.4	Y	N
NC551i	HP	LOM	10GbE							Contained in FW			4.2.401.2215		4.2.390.6	2.74.00.9.001	Y	N
NC551i	HP	LOM	10GbE							Contained in FW			4.6.247.5		10.0.43.0.1003-3	2.76.00.2.001-2	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Ethernet Speed	FC Speed	HP Part Number	3PO Part Number	Vendor Part Number	CEE Firmware	FC Firmware	BIOS	EFI	Boot Image	Firmware	UEFI	NIC Driver Version	Driver Version	Boot Support	Direct Connect Support
NC551i	HP	LOM	10GbE							Contained in FW			4.9.311.20		10.0.430.1109-2	2.76.003.001	Y	N
NC551i	HP	LOM	10GbE							Contained in FW			4.9.416.0		10.0.430.1109-2	2.76.003.001	Y	N
NC551i	HP	LOM	10GbE							Contained in FW			4.9.416.2		10.2.478.1	10.2.370.8	Y	N
NC551i	HP	LOM	10GbE							Contained in FW			4.1.450.1707		4.2.313.0	2.72.012	Y	N
NC551i	HP	LOM	10GbE							Contained in FW			4.1.450.16		4.2.313.0	2.72.012	Y	N
NC551i	HP	LOM	10GbE							Contained in FW			4.1.450.7			2.72.12.1	Y	N
NC551i	HP	LOM	10GbE							Contained in FW			4.2.401.605		4.2.390.6	2.74.009.001	Y	N
NC551i	HP	LOM	10GbE							Contained in FW			4.6.247.5		4.6.203.1	2.74.014.001	Y	N
NC551i	HP	LOM	10GbE							Contained in FW			4.2.401.6		4.2.390.6	2.74.009.001	Y	N
NC551m	HP	PCIe	10 GbE		580151-B21					Contained in FW			4.9.416.7		10.2.478.1	10.2.370.8	Y	Y
NC551m	HP	PCIe	10 GbE		580151-B21					Contained in FW			4.1.450.1707		4.2.313.0	2.72.012	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Ethernet Speed	FC Speed	HP Part Number	3PO Part Number	Vendor Part Number	CEE Firmware	FC Firmware	BIOS	EFI	Boot Image	Firmware	UEFI	NIC Driver Version	Driver Version	Boot Support	Direct Connect Support
NC551m	HP	PCIe	10 GbE		580151-B21					Contained in FW			4.2.401.2215		4.2.390.6	2.74.009.001	Y	N
NC551m	HP	PCIe	10 GbE		580151-B21					Contained in FW			4.6.247.5		10.0.430.1003-3	2.76.002.001-2	Y	N
NC551m	HP	PCIe	10 GbE		580151-B21					Contained in FW			4.9.311.20		10.0.430.1109-2	2.76.003.001	Y	N
NC551m	HP	PCIe	10 GbE		580151-B21					Contained in FW			4.9.416.0		10.0.430.1109-2	2.76.003.001	Y	N
NC551m	HP	PCIe	10 GbE		580151-B21					Contained in FW			4.9.416.2		10.2.478.1	10.2.370.8	Y	N
NC551m	HP	PCIe	10 GbE		580151-B21					Contained in FW			4.9.416.2		10.2.298.37	10.2.261.4	Y	N
NC551m	HP	PCIe	10 GbE		580151-B21					Contained in FW			4.2.401.605		4.2.390.6	2.74.009.001	Y	N
NC551m	HP	PCIe	10 GbE		580151-B21					Contained in FW			4.1.450.16		4.2.313.0	2.72.012	Y	N
NC551m	HP	PCIe	10 GbE		580151-B21					Contained in FW			4.1.450.7			2.72.12.1	Y	N
NC551m	HP	PCIe	10 GbE		580151-B21					Contained in FW			4.6.247.5		10.0.430.1003-3		Y	N
NC551m	HP	PCIe	10 GbE		580151-B21					Contained in FW			4.6.247.5		4.6.203.1	2.74.014.001	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Ethernet Speed	FC Speed	HP Part Number	3PO Part Number	Vendor Part Number	CEE Firmware	FC Firmware	BIOS	EFI	Boot Image	Firmware	UEFI	NIC Driver Version	Driver Version	Boot Support	Direct Connect Support
NC551m	HP	PCIe	10 GbE		580151-B21					Contained in FW			4.2.401.6		4.2.390.6	2.74.009.001	Y	N
NC553i	HP	LOM	10GbE							Contained in FW			4.9.311.20		10.0.430.1109-2	2.76.003.001	Y	N
NC553i	HP	LOM	10GbE							Contained in FW			10.5.65.21		10.5.65.6	10.4.246.0	Y	N
NC553i	HP	LOM	10GbE							Contained in FW			4.2.401.6		4.2.390.6	2.74.009.001	Y	N
NC553i	HP	LOM	10GbE							Contained in FW			4.1.450.1707		4.2.313.0	2.72.012	Y	N
NC553i	HP	LOM	10GbE							Contained in FW			4.2.401.2215		4.2.390.6	2.74.009.001	Y	N
NC553i	HP	LOM	10GbE							Contained in FW			4.1.450.7			2.72.12.1	Y	N
NC553i	HP	LOM	10GbE							Contained in FW			4.1.450.16		4.2.313.0	2.72.012	Y	N
NC553i	HP	LOM	10GbE							Contained in FW			4.2.401.605		4.2.390.6	2.74.009.001	Y	N
NC553i	HP	LOM	10GbE							Contained in FW			4.6.247.5		4.6.203.1	2.74.014.001	Y	N
NC553i	HP	LOM	10GbE							Contained in FW			10.2.477.10		10.2.478.1	10.2.370.8	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Ethernet Speed	FC Speed	HP Part Number	3PO Part Number	Vendor Part Number	CEE Firmware	FC Firmware	BIOS	EFI	Boot Image	Firmware	UEFI	NIC Driver Version	Driver Version	Boot Support	Direct Connect Support
NC553i	HP	LOM	10GbE							Contained in FW			10.2.34 0.19		10.2.29 8.37	10.2.26 1.4	Y	N
NC553i	HP	LOM	10GbE							Contained in FW			4.6.247 .5		10.0.43 0.1003 -3	2.76.00 2.001- 2	Y	N
NC553i	HP	LOM	10GbE							Contained in FW			4.9.416 .0		10.0.43 0.1109 -2	2.76.00 3.001	Y	N
NC553i	HP	LOM	10GbE							Contained in FW			4.6.247 .5		10.0.43 0.1003 -3		Y	N
NC553m	HP	PCIe	10 GbE		613431-B21					Contained in FW			10.5.65 .21		10.5.65 .6	10.4.24 6.0	Y	N
NC553m	HP	PCIe	10 GbE		613431-B21					Contained in FW			4.6.247 .5		4.6.203 .1	2.74.01 4.001	Y	N
NC553m	HP	PCIe	10 GbE		613431-B21					Contained in FW			4.2.401 .2215		4.2.390 .6	2.74.00 9.001	Y	N
NC553m	HP	PCIe	10 GbE		613431-B21					Contained in FW			4.2.401 .6		4.2.390 .6	2.74.00 9.001	Y	N
NC553m	HP	PCIe	10 GbE		613431-B21					Contained in FW			4.6.247 .5		10.0.43 0.1003 -3		Y	N
NC553m	HP	PCIe	10 GbE		613431-B21					Contained in FW			4.1.450 .7			2.72.12 .1	Y	N
NC553m	HP	PCIe	10 GbE		613431-B21					Contained in FW			4.2.401 .605		4.2.390 .6	2.74.00 9.001	Y	N

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Bus	Ethernet Speed	FC Speed	HP Part Number	3PO Part Number	Vendor Part Number	CEE Firmware	FC Firmware	BIOS	EFI	Boot Image	Firmware	UEFI	NIC Driver Version	Driver Version	Boot Support	Direct Connect Support
NC553m	HP	PCIe	10 GbE		613431-B21					Contained in FW			4.1.450.1707		4.2.313.0	2.72.012	Y	N
NC553m	HP	PCIe	10 GbE		613431-B21					Contained in FW			4.9.311.20		10.0.430.1109-2	2.76.003.001	Y	N
NC553m	HP	PCIe	10 GbE		613431-B21					Contained in FW			10.2.477.10		10.2.478.1	10.2.370.8	Y	N
NC553m	HP	PCIe	10 GbE		613431-B21					Contained in FW			4.1.450.16		4.2.313.0	2.72.012	Y	N
NC553m	HP	PCIe	10 GbE		613431-B21					Contained in FW			4.6.247.5		10.0.430.1003-3	2.76.002.001-2	Y	N
NC553m	HP	PCIe	10 GbE		613431-B21					Contained in FW			4.9.416.0		10.0.430.1109-2	2.76.003.001	Y	N
NC553m	HP	PCIe	10 GbE		613431-B21					Contained in FW			10.2.340.19		10.2.298.37	10.2.261.4	Y	N

Notes:

General Converged Network Adapter (CNA) (207) Notes:

- 1) HP Broadcom based CNA's (CN1100R, 534FLB, 534FLR, 534M) are supported as of HP 3PAR OS 3.1.2
- 2) Windows Server 2012 R2 supported from the following driver versions. These drivers are not supported with Windows Server 2012 non-R2:
 - 2a) Emulex: 2.76.002.001-2 (OOB)
 - 2b) Qlogic: 9.1.11.11 (OOB)
- 3) Windows Server 2012 R2 is supported from Broadcom driver version 7.8.75.0 (OOB). This driver is supported with Windows Server 2012 non-R2.

Fibre Channel Switch (53)

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Class	Vendor	Bandwidth	Port Count	Vendor Part Number
Brocade 16Gb/16 SAN Switch for HP BladeSystem c-Class	Embedded Switch	Brocade	16Gb/s	16 ports active any combo/16 Internal, 12 External	6548
Brocade 16Gb/28 SAN Switch for HP BladeSystem c-Class	Embedded Switch	Brocade	16Gb/s	16 Internal, 12 External	6548
Brocade 16Gb/28 SAN Switch Pwr Pk+ for HP BladeSystem c-Class	Embedded Switch	Brocade	16Gb/s	16 Internal, 12 External	6548
Brocade 8Gb SAN Switch for HP BladeSystem c-Class, 8/12c	Embedded Switch	Brocade	8Gb/s	12	5480
Brocade 8Gb SAN Switch for HP BladeSystem c-Class, 8/24c	Embedded Switch	Brocade	8Gb/s	24	5480
Brocade 8Gb SAN Switch for HP BladeSystem c-Class, 8/24c Pwr Pack+	Embedded Switch	Brocade	8Gb/s	24	5480
Cisco MDS 8Gb Fabric Switch for HP BladeSystem c-Class	Embedded Switch	Cisco	8Gb/s	16 internal, 8 external	
Cisco MDS 9124 Fabric Switch	Edge	Cisco	4Gb/s	24	MDS9124
Cisco MDS 9124e Fabric Switch for c-Class BladeSystem	Embedded Switch	Cisco	4Gb/s	8 internal, 4 external	MDS9124e
Cisco MDS 9134 Fabric Switch	Edge	Cisco	4Gb/s	32	MDS9134
HP SN3000B 16Gb 24/12 Fibre Channel Switch	Edge	Brocade	16Gb/s	24	6505
HP SN3000B 16Gb 24/24 Fibre Channel Switch	Edge	Brocade	16Gb/s	24	6505
HP SN4000B Pwr Pk+ SAN Extension Switch	Edge	Brocade	16 Gb/s	24	7840
HP SN6000B 16Gb 48-port/24-port Active Fibre Channel Switch	Edge	Brocade	16Gb/s	48	6510

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Class	Vendor	Bandwidth	Port Count	Vendor Part Number
HP SN6000B 16Gb 48-port/24-port Active Power Pack+ Fibre Channel Switch	Edge	Brocade	16Gb/s	48	6510
HP SN6000B 16Gb 48-port/48-port Active Fibre Channel Switch	Edge	Brocade	16Gbs	48	6510
HP SN6000B 16Gb 48-port/48-port Active Power Pack+ Fibre Channel Switch	Edge	Brocade	16Gb/s	48	6510
HP SN6000C Fibre Channel Switch (Cisco MDS 9148 Fabric Switch)	Edge	Cisco	8Gb/s	48	MDS9148
HP SN6010C 12-port 16Gb FC Switch	Edge	Cisco	16 Gb/s	12	DS-C9148S-12PK9
HP SN6010C 48-port 16Gb FC Switch	Edge	Cisco	16 Gb/s	48	DS-C9148S-48PK9
HP SN8000B 16Gb 32-port Fibre Channel Blade	Module	Brocade	16Gb/s	32	FC16-32
HP SN8000B 16Gb 48-port Fibre Channel Blade	Module	Brocade	16Gb/s	48	FC16-48
HP SN8000B 4-Slot Power Pack+ SAN Director Switch	Director	Brocade	16Gb/s	32 to 256	DCX 8510-4
HP SN8000B 4-Slot SAN Director Switch	Director	Brocade	16Gb/s	32 to 256	DCX 8510-4
HP SN8000B 64-port 16Gb FC Blade	Module	Brocade	16 Gb/s	64	FC16-64
HP SN8000B 8Gb 32-port Enhanced Fibre Channel Blade	Module	Brocade	8Gb/s	32	FC8-32E
HP SN8000B 8Gb 48-port Enhanced Fibre Channel Blade	Module	Brocade	8Gb/s	48	FC8-48E

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Class	Vendor	Bandwidth	Port Count	Vendor Part Number
HP SN8000B 8-Slot Power Pack+ SAN Backbone Director Switch	Director	Brocade	16Gb/s	32 to 512	DCX 8510-8
HP SN8000C 13-Slot Director Switch (Cisco MDS 9513 Multilayer Director Switch)	Director	Cisco	4Gb/s	528	MDS9513
HP SN8000C 6-Slot Director Switch (Cisco MDS 9506 Multilayer Director Switch)	Director	Cisco	4Gb/s	192	MDS9506
HP SN8000C 8Gb 32-Port Adv Fibre Channel Module (QW924A)	Module	Cisco	8 Gbs	32	DS-X9232256HK9
HP SN8000C 8Gb 48-Port Adv FC Module (QW925A)	Module	Cisco	8 Gbs	48	DS-X9248256HK9
HP SN8000C 9-Slot Director Switch (Cisco MDS 9509 Multilayer Director Switch)	Director	Cisco	4Gb/s	336	MDS9509
HP SN8500C 4-slot 16Gb FC Director Switch	Director	Cisco	16 Gb/s	192	DS-C9706-1K9
HP StorageWorks 8/20q Fibre Channel Switch	Edge	QLogic	8Gb/s	20	n/a
HP StorageWorks 8/24 SAN Switch	Edge	Brocade	8Gb/s	24	300
HP StorageWorks 8/40 SAN Switch	Edge	Brocade	8Gb/s	40	5100
HP StorageWorks 8/8 Base SAN Switch	Edge	Brocade	8Gb/s	8	300
HP StorageWorks 8/8 SAN Switch	Edge	Brocade	8Gb/s	8	300
HP StorageWorks 8/80 Power Pack	Edge	Brocade	8Gb/s	80	5300
HP StorageWorks 8/80 SAN Switch	Edge	Brocade	8Gb/s	80	5300

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Class	Vendor	Bandwidth	Port Count	Vendor Part Number
HP StorageWorks DC SAN Backbone Director Switch	Director	Brocade	8Gb/s	16 to 384	DCX
HP StorageWorks DC SAN Director 16 Port 8Gb FC Blade (FC8-16)	Director	Brocade	8Gb/s	16	FC8-16
HP StorageWorks DC04 Power Pack+ SAN Director Switch	Director	Brocade	8Gb/s	16 to 192	DCX-4S
HP StorageWorks DC04 SAN Director Switch	Director	Brocade	8Gb/s	16 to 192	DCX-4S
HP StorageWorks Encryption SAN Switch	Edge	Brocade	8Gb/s	32	BES
HP StorageWorks SN6000 Fibre Channel Switch	Edge	QLogic	8Gb/s	24	SB5800V, SB5802V
HP StoreFabric SN6500B 16Gb 96/48 FC Switch	Edge	Brocade	16Gb/s	48	6520
HP StoreFabric SN6500B 16Gb 96/48 Power Pack+ FC Switch	Edge	Brocade	16Gb/s	48	6520
HP StoreFabric SN6500B 16Gb 96/96 FC Switch	Edge	Brocade	16Gb/s	96	6520
HP StoreFabric SN6500B 16Gb 96/96 Power Pack+ FC Switch	Edge	Brocade	16Gb/s	96	6520
HP StoreFabric SN8500C 48-port 16Gb FC Module	Module	Cisco	16 Gbs	48	DS-X9448H768K9
HP StoreFabric SN8500C 8-slot 16Gb FC Director	Director	Cisco	16 Gbs	384	MDS9710

Fibre Channel over Ethernet (FCoE) Switch (12)

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Class	FC Port Speed	FC Port Count	Ethernet Port Speed	Ethernet Port Count	Vendor Part Number
Cisco Nexus 5010 Converged Network Switch	Cisco	Edge	4Gb/s	8	10Gb/s	26	
Cisco Nexus 5020 Converged Network Switch	Cisco	Edge	4Gb/s	16	10Gb/s	52	
Cisco Nexus 5548UP Converged Network Switch	Cisco	Edge	8Gb/s	48	10Gb/s	48	N5K-C5548UP-OSM
Cisco Nexus 5596UP Converged Network Switch	Cisco	Edge	8Gb/s	96	10Gb/s	96	N5K-C5596UP-OSM
Cisco Nexus 6001P Switch	Cisco	Edge	N/A	0	10Gb/s, 40Gb/s	48 x 10Gb/s ports, 4 x 40Gb/s ports	N6K-C6001-64P
Cisco Nexus 6001P Switch	Cisco	Edge	N/A	0	10Gb/s, 40Gb/s	48 x 10Gb/s ports, 4 x 40Gb/s ports	N6K-C6001-64P
Cisco Nexus 6004EF Switch	Cisco	Edge	8Gb/s	20 per module (up to 8 modules)	10Gb/s, 40Gb/s	48 x 10Gb/s ports per module (up to 8 modules), 12 x 40Gb/s ports per module (up to 8 modules)	N6K-C6004EF
Cisco Nexus 6004EF Switch	Cisco	Edge	8Gb/s	20 per module (up to 8 modules)	10Gb/s, 40Gb/s	48 x 10Gb/s ports per module (up to 8 modules), 12 x 40Gb/s ports per module (up to 8 modules)	N6K-C6004EF
HP FlexFabric 5900CP	HP	Edge	8Gb/s	48	10GbE / 40GbE	48 / 4	JG838A
HP StorageWorks 2408 FCoE Converged Network Switch	Brocade	Edge	8Gb/s	8	10Gb/s	24	8000
HP StorageWorks 2408 FCoE Power Pack+ Converged Network Switch	Brocade	Edge	8Gb/s	8	10Gb/s	24	8000

HP 3PAR StoreServ 20000, 8000, 7000, 10000 Storage series FC Microsoft Windows Server 2012 x64

Name	Vendor	Class	FC Port Speed	FC Port Count	Ethernet Port Speed	Ethernet Port Count	Vendor Part Number
HP StorageWorks DC SAN Director Switch 10/24 FCoE Blade	Brocade	Module	8Gb/s	n/a	10Gb/s	24	FCOE10-24

Router (7)								
Name	Vendor	Class	Port Speed	Port Count	Port Type	Ethernet Port Speed	Ethernet Port Count	Vendor Part Number
HP StorageWorks 1606 Base Extension SAN Switch	Brocade	Router-Gateway	8Gb/s (FC/FCR)	16 (FC/FCR, 4 licensed)	FC/FCR/FCIP	1Gb/s	6 (2 licensed)	7800
HP StorageWorks 1606 Full Extension SAN Switch	Brocade	Router-Gateway	8Gb/s (FC/FCR)	16 (FC/FCR)	FC/FCR/FCIP	1Gb/s	6	7800
HP StorageWorks 1606 Power Pack+ Extension SAN Switch	Brocade	Router-Gateway	8Gb/s (FC/FCR)	16 (FC/FCR)	FC/FCR/FCIP	1Gb/s	6	7800
HP StorageWorks 400 Multi-protocol Router 7500	HP	Router-Gateway	4Gbit	16	FC/FCR/FCIP	1Gbit	2	
HP StorageWorks DC SAN Director Switch Multiprotocol Extension Blade	Brocade	Router-Gateway	8Gb/s (FC/FCR)	12 (FC/FCR)	FC/FCR/FCIP	1Gb/s and 10Gb/s	ten 1Gb/s and two 10Gb/s	FX8-24
HP StorageWorks Multi-protocol RouterBlade FR4-18i	HP	Router-Gateway	4Gbit	16	FC/FCR/FCIP	1Gbit	2	

Name	Vendor	Class	Port Speed	Port Count	Port Type	Ethernet Port Speed	Ethernet Port Count	Vendor Part Number
HP StoreFabric Enhanced Multiprotocol Extension Blade	Brocade	Router-Gateway	8Gb/s (FC/FCR)	12 (FC/FCR)	FC/FCR/FCIP	1Gb/s and 10Gb/s	ten 1Gb/s and two 10Gb/s	FX8-24E

Path Management (4)			
Name	Vendor	Category	Software Version
Microsoft MPIO DSM	Microsoft	Multipath	
Veritas DMP (Dynamic Multipathing)	Symantec	Multipath	6.1
Veritas DMP (Dynamic Multipathing)	Symantec	Multipath	6.0.2
VERITAS InfoScale Enterprise (Storage)	Symantec	Multipath	7.0

Notes:

General Path Management (4) Notes:

- 1) Symantec/Veritas Storage Foundation (VxDMP/VCS) is only supported in a FC-Fabric attach (FC-switched) configuration.
- 2) Symantec Dynamic Multi-pathing (VxDMP) is not supported as a stand-alone multipath solution. It's only supported when part of a Storage Foundation suite