

**H-series FC Switch
Connectivity**

HP H-SERIES FC SWITCH CONNECTIVITY STREAM

(formerly HP StorageWorks 8Gb Simple SAN Connection FC Switch Connectivity Stream)

Updated 09/20/13

Model	Firmware	Notes
<p>HP SN6000 Stackable 8Gb 24-port Single Power Fibre Channel Switch (24 switch ports active) (p/n AW575B, AW575A)</p> <p>HP SN6000 Stackable 8Gb 24-port Dual Power Fibre Channel Switch (24 switch ports active) (p/n AW576B, AW576A)</p> <p>HP SN6000 Stackable 8Gb 12-port Single Power Fibre Channel Switch (12 switch ports active) (p/n BK780B, BK780A) Upgradeable to 24 active ports in 4-port increments</p> <p>HP 8/20q Fibre Channel Switch (8 switch ports active) (p/n AK241B, AK241A, AQ233B, AQ233A) Upgradeable to 20 active ports in 4-port increments</p> <p>HP 8/20q Fibre Channel Switch (16 switch ports active) (p/n AK242B, AK242A) Upgradeable to 20 active ports in 4-port increments</p>	<p>8.0.14.03.00 (Feb '12) (recommended)</p> <p>8.0.4.04.00 (Feb '10) (active¹)</p>	<p>Firmware 8.0.4.04.00 is the minimum version required for the HP SN6000 Fibre Channel Switch</p> <p><u>SAN Connection Manager (SCM)</u> Recommended version: 3.40 (Aug '13) Active¹ version(s): 3.30 (Feb '12)</p> <p>SCM 3.40 supports the following HP storage products:</p> <ul style="list-style-type: none"> • EVA 4400 • EVA 6400/8400 • MSA 2000fc, MSA 2000fc G2 • P2000 G3 FC Modular Smart Array • P6300 / P6500 • P6350 / P6550 <p>SCM version 3.40 adds support for HP P6350 and P6550 EVA storage, and adds support for Windows 2012 for non-management servers</p> <p>SCM version 3.30 added support for P6300 and P6500 storage arrays</p> <p><u>Enterprise Fabric Management Suite (EFMS)</u> Recommended version: 8.00.4.05 (Jun '10)</p> <p>Firmware 8.0.4.04.00 is the minimum version required to manage switches with EFMS</p>
<p>Note 1: "Active" versions are fully supported, but "recommended" is the preferred version whenever possible.</p>		

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<u>Transparent Router</u>	Following are the supported remote fabric switches which can be connected to an H-series switch TR_Port:
<u>HP switch</u>	<u>Firmware version</u>
Brocade 8Gb SAN Switch for HP BladeSystem c-Class HP 8/8 Base, SAN Switch HP 8/24 SAN Switch HP 8/40 SAN Switch HP 8/80 SAN Switch HP EVA4400 Embedded Switch Module, 8 Gb Brocade Brocade 4Gb SAN Switch for HP c-Class BladeSystem HP 4/8 SAN Switch HP 4/16 SAN Switch HP SAN Switch 4/32B HP SAN Switch 4/64 HP 4/256 SAN Director	6.2.1b or later
HP SN8000C 6-Slot Supervisor 2A Director Switch HP SN8000C 9-Slot Supervisor 2A Director Switch HP SN8000C 13-Slot Supervisor 2A Fabric 2 Director Switch Cisco MDS 9513 Multilayer Director Switch Cisco MDS 9509 Multilayer Director Switch Cisco MDS 9506 Multilayer Director Switch Cisco MDS 9222i Fabric Switch Cisco MDS 9134 Fabric Switch Cisco MDS 9124 Fabric Switch Cisco MDS 9124e Fabric Switch for c-Class BladeSystem	5.0(1a) or later
HP SN8000C 6-Slot Supervisor 2A Director Switch HP SN8000C 9-Slot Supervisor 2A Director Switch HP SN8000C 13-Slot Supervisor 2A Fabric 2 Director Switch Cisco MDS 9513 Multilayer Director Switch Cisco MDS 9509 Multilayer Director Switch Cisco MDS 9506 Multilayer Director Switch Cisco MDS 9222i Fabric Switch Cisco MDS 9134 Fabric Switch Cisco MDS 9124 Fabric Switch Cisco MDS 9124e Fabric Switch for c-Class BladeSystem	4.2(1a) or later
HP SN8000C 6-Slot Supervisor 2A Director Switch HP SN8000C 9-Slot Supervisor 2A Director Switch HP SN8000C 13-Slot Supervisor 2A Fabric 2 Director Switch Cisco MDS 9509 Multilayer Director Switch Cisco MDS 9506 Multilayer Director Switch Cisco MDS 9216A Multilayer Fabric Switch	3.3(4) or later

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<p><u>Virtual Connect FC Module for c-Class BladeSystem</u></p>	<p><u>HP Virtual Connect 8Gb 20 Port Fibre Channel Module for c-Class BladeSystem (572018-B21):</u></p> <ul style="list-style-type: none"> Module is supported with VC-FC firmware 1.40, 1.41, 1.42, 1.43, and 1.44, and H-series switches with firmware 8.0.2.02.00 and 8.0.4.04.00 Module is supported with VC-FC firmware 2.00 and H-series switches with firmware 8.0.14.03.00 <p><u>HP Virtual Connect 4Gb Fibre Channel Module for c-Class BladeSystem (409513-B22):</u></p> <ul style="list-style-type: none"> Module is supported with VC-FC firmware 1.32, 1.40, and 1.41, 1.42, 1.43, and 1.44, and H-series switches with firmware 8.0.2.02.00 and 8.0.4.04.00 Module is supported with VC-FC firmware 2.00 and H-series switches with firmware 8.0.14.03.00 <p><u>HP Virtual Connect 8Gb 24 Port Fibre Channel Module for c-Class BladeSystem (466482-B21):</u></p> <ul style="list-style-type: none"> Module is supported with VC-FC2 firmware 1.01, 1.02, 1.03, 1.04, and 1.05, and H-series switches with firmware 8.0.4.04.00 Module is supported with VC-FC firmware 1.10 and, H-series switches with firmware 8.0.14.03.00 <p><u>HP Virtual Connect FlexFabric 10Gb/24-Port Module for c-Class BladeSystem (571956-B21)</u></p> <ul style="list-style-type: none"> Module is supported with VC firmware 3.15, 3.17, 3.18, 3.30, 3.51, and 3.60, and H-series switches with firmware 8.0.4.04.00 Module is supported with VC firmware 3.30, 3.51, 3.60, 3.70, 3.75, 4.01, and 4.10, and H-series switches with firmware 8.0.14.03.00
<p><u>N-Port ID Virtualization (NPIV)</u></p>	<p>NPIV is supported with firmware 7.6.0.02.00 or later. Connection to B-Series Access Gateway or C-Series NPV is not supported.</p>
<p><u>Host Operating System</u></p>	<p>The following Operating Systems are not supported:</p> <ul style="list-style-type: none"> Novell Netware Solaris IBM AIX Open VMS Tru64 UNIX <p><u>For specific operating system version support, refer to the applicable array stream from the SPOCK home page</u></p>
<p><u>FC HBAs, Drivers/FW, Multi-path SW</u></p>	<p>1Gb HBAs are not supported 2Gb HBAs are not supported with switch firmware 8.0.2.02.00 or later</p> <p><u>For specific HBA driver/FW versions, and multi-path software support, refer to the applicable array stream from the SPOCK home page</u></p>

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<p><u>Fibre Channel Storage Arrays</u></p>	<p>The following Storage Arrays are <u>not</u> supported: EVA 3000/5000, VA 7100/7110/7400/7410, MA/RA/EMA/ESA (HSG), XP256, XP48/512, XP128/1024</p> <p><u>For specific supported storage array firmware versions, refer to the applicable array stream from the SPOCK home page</u></p>
<p><u>Continuous Access</u></p>	<p>HP Continuous Access EVA is supported with EVA4400/6400/8400 and firmware XCS version 09534000 with the data replication protocol option set for “HP SCSI FC Compliant Data Replication Protocol”, and with switch firmware 8.0.4.04.00 and 8.0.14.03.00.</p> <p>HP P6000 Continuous Access is supported with P6300/P6500 and EVA4400/6400/8400 and firmware XCS version 10000000, 10001000, and 11001100, with the data replication protocol option set for “HP SCSI FC Compliant Data Replication Protocol”, and with switch firmware 8.0.4.04.00 and 8.0.14.03.00.</p> <p>Continuous Access XP is not currently supported with the H-series switches</p>
<p><u>Enterprise Backup Solution (EBS) Support</u></p>	<p>For additional EBS support information, refer to the HP Enterprise Backup Solutions Design Guide and EBS Compatibility Matrix at: http://www.hp.com/go/ebs</p>
<p><u>Optical Transceivers (SFPs)</u></p>	<p>Only the following Optical Transceivers are currently supported:</p> <ul style="list-style-type: none"> • HP 8 Gbps Short Wave FC SFP+, p/n AJ718A • HP 8 Gbps Long Wave 10km FC SFP+, p/n AW584A • HP 4 Gbps Short Wave FC SFP, p/n A7446B • HP 10 Gbps Short Wave FC optical XPAK, p/n AW573A (for SN6000 FC Switch stacking ports)
<p><u>Stacking Cables</u></p>	<p>The following XPAK copper cables are supported for SN6000 FC Switch stacking ports:</p> <ul style="list-style-type: none"> • HP 3in 10/20 Gbps XPAK Copper Cable, p/n AW581A • HP 9in 10/20 Gbps XPAK Copper Cable, p/n AW582A • HP 2m 10/20 Gbps XPAK Copper Cable, p/n AW583A
<p>Refer to the H-series product documentation and the HP SAN Design Reference Guide for supported H-series configuration rules at: http://www.hp.com/go/SANdesignguide</p>	