

# QW937A Datasheet

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## Overview

HPE QW937A is the SN3000B 24/12 16Gb FC Switch. The HPE SN3000B Fibre Channel Switch meets the demands of hyper-scale, private cloud storage environments by delivering market-leading 16 Gb Fibre Channel technology and capabilities that support highly virtualized environments. Designed to enable maximum flexibility and investment protection, the SN3000B Switch is configurable in 12 or 24 ports and supports 4, 8, or 16 Gbps speeds in an efficiently designed 1U package. It also provides a simplified deployment process and a point-and-click user interface, making it both powerful and easy to use. The SN3000B Switch offers low-cost access to industry-leading Storage Area Network (SAN) technology while providing "pay-as-you-grow" scalability to meet the needs of an evolving storage environment.

## Quick Spec

Table 1 shows the quick spec.

<b>Model</b>	QW937A
<b>Description</b>	HPE SN3000B 16Gb 24-port/12-port Active Fibre Channel Switch
<b>Fibre Channel ports</b>	Switch mode (default): 12- and 24-port configurations (12-port increment through Ports on Demand [PoD] license); universal (E, F, M, EX, D) ports
<b>Interoperability</b>	8/8 SAN Switch 8/24 SAN Switc 1606 Extension SAN Switch SN4000B SAN Extension Switch SN8000B 8-Slot SAN Backbone Director SN8000B 4-Slot SAN Director SN6500B Fibre channel Switch SN3000B Fibre channel Switch SN6000B 16Gb FC Switch Brocade 8Gb SAN Switch for HPE BladeSystem c-Class Brocade 16Gb SAN Switch for HPE BlaceSystem c-Class Brocade 16Gb Fibre Channel SAN Switch Module for HPE Synergy
<b>Performance</b>	16 Gbps port speeds.
<b>Aggregate bandwidth</b>	384 Gbit/sec
<b>Fabric latency</b>	Latency for locally switched ports is 700 ns; Forward Error Correction (FEC) adds 400 ns between E_Ports (enabled by default).
<b>Maximum frame size</b>	2112-byte payload
<b>Classes of service</b>	Class 2, Class 3, Class F (inter-switch frames)
<b>Port types</b>	D_Port (Diagnostic Port), E_Port, EX_Port, F_Port, M_Port (Mirror Port); self-discovery based on switch type (U_Port); optional port type control Access Gateway mode: F_Port and NPIV-enabled N_Port

## Configuration Information

These tables shows the configuration of HPE S3000B switches.

Step 1 - Base Configuration		
Select one:		
Model	Model Description	Part Number
<b>SN3000B 16Gb 24/24 FC Switch</b>	HPE SN3000B 16Gb 24-port/24-port Active Fibre Channel Switch	QW938B
	16Gb 24/24 FC Switch with 24 active ports; rackmount kit; accessory kit (enterprise safety and regulatory information, installation guide, rack-mounting instructions), power cord, serial cable, base software of Advanced Fabric OS, Advanced Web Tools, Brocade EZ Switch, Advanced Zoning and SAN Network Advisor Professional.	
<b>SN3000B 16Gb 24/12 FC</b>	HPE SN3000B 16Gb 24-port/12-port Active Fibre Channel Switch	QW937B

<b>Switch</b>	16Gb 24/12 FC Switch with 12 active ports; rackmount kit; accessory kit (enterprise safety and regulatory information, installation guide, rack-mounting instructions), power cord, serial cable, base software of Advanced Fabric OS, Advanced Web Tools, Brocade EZ Switch, Advanced Zoning, and SAN Network Advisor Professional.	
<b>SN3000B 16Gb 24-12 12-port FC Upgrade LTU</b>	HPE SN3000B SAN Switch 12-port Upgrade E-LTU	TC391AAE (Physical Version - TC391A)
	12 port upgrade license for SN3000B 16Gb 24/12 FC Switch <a href="#">QW937A</a> )	
<b>SN3000B 16Gb FC Switch Optional Power Supply</b>	HPE SN3000B Optional Power Supply	<a href="#">QW939A</a>
	Optional, hot-swappable power supply for SN3000B 16Gb 24/24 FC Switch (QW938A) and SN3000B 16Gb 24/12 FC Switch ( <a href="#">QW937A</a> )	
	NOTE: Some HPE B-series software licenses are now available through the Electronic Delivery (E-Delivery) mechanism. The E-Delivery software licenses with new part numbers listed in this document are functionally equivalent to the corresponding physical licenses with different part numbers. Some software licenses in this document are represented by two part numbers, the first of which is the E-Delivery version (ending with AAE) and the second is the physical version.	

<b>Step 2 - Options</b>					
<b>Select each type of required options with quantities specified:</b>					
	Model Description			Part Number	
<b>Fibre Channel Transceivers</b>	HPE B-series 16Gb SFP+ Short Wave Transceiver			<a href="#">QK724A</a>	
	HPE 8Gb Short Wave B-series FC SFP+ 1 Pack			<a href="#">AJ716B</a>	
	HPE B-series 16Gb LW 25km FC SFP 1-pack Transceiver			H6Z29A	
	NOTE: AJ716A is not supported with the SN3000B 16Gb FC Switch				
	Distance - Maximum	HPE Standard OM2 Cable	HPE Standard OM3 Cable	HPE PremierFlex OM3+ Cable	HPE PremierFlex OM4 Cable
	16Gb performance:	35 meters	100 meters	100 meters	125 meters
	8Gb performance:	50 meters	150 meters	150 meters	190 meters
	4Gb performance:	150 meters	380 meters	380 meters	400 meters
	HPE B-series 16Gb SFP+ Long Wave 10km Transceiver			<a href="#">QK725A</a>	
	HPE 8Gb Long Wave B-series 10km Fibre Channel 1 Pack SFP+ Transceiver			<a href="#">AJ717A</a>	
HPE B-series 8Gb Extended Long Wave 25km Fibre Channel SFP+ Transceiver 1 Pack			<a href="#">AW538A</a>		
<b>Accessories</b>	HPE B-series 4G USB Drive			N9Y63A	
	HPE StoreFabric SN3000B/SN6000B 16Gb SAN Switch Accessory Kit			E7Y00A	
	NOTE: When any of the SN3000B Switch models is ordered, an accessory kit is included in the package by default. E7Y00A is required when the original accessory kit or Rack Mount Kit is unavailable				
	NOTE: The Accessory Kit contains a Rack Mount Kit including rails, rail mounting hardware and plenum and HPE product documentation including Read Me First, Safety Guides, User License, and Warranty.				
<b>Optical Cables</b>	HPE PremierFlex OM4+ Fiber Optic Cables				
	HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable			<a href="#">QK732A</a>	
	HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 2m Cable			<a href="#">QK733A</a>	
	HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 5m Cable			<a href="#">QK734A</a>	

HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 15m Cable	QK735A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 30m Cable	QK736A
HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 50m Cable	<a href="#">QK737A</a>
HPE OM3 LC-LC Optical Cables	
HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	<a href="#">AJ836A</a>
HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A

Step 3 - Optional Software		
Software for SN3000B 16Gb FC Switch	HPE SAN Network Advisor Enterprise Software E-LTU	TC352CAE (Physical License – TC352C)
	HPE SAN Network Advisor Professional Plus Software E-LTU	TC353CAE (Physical License – TC353C)
	HPE SAN Network Advisor Professional Plus Upgrade E-LTU	TC354CAE (Physical License – TC354C)
	HPE B-series Entry Switch Power Pack+ E-LTU NOTE: The Power Pack+ Software Bundle kit includes Fabric Vision, Fabric Watch, ISL Trunking, Extended Fabric and Advanced Performance Monitor.	T5521BAE (Physical License -T5521B)
	NOTE: Adaptive Networking and Server Application Optimization features are included by default in the switch firmware (FOS 7.2.x or later, see HPE SPOCK for Hewlett Packard Enterprise supported versions of FOS 7.2.x) and do not require a separate license	
	HPE B-series Entry Switch ISLTrunking E-LTU	T5527AAE (Physical License -T5527A)
	HPE SN3000B SAN Switch 12-port Upgrade E-LTU	TC391AAE (Physical Version - TC391A)
	HPE 8/16Gb Entry Switch Fabric Vision E-LTU	TC509AAE (Physical License - TC509A)

## Get More Information

Do you have any question about the QW937A?

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## Specification

HPE SN3000B Fibre Channel Switch Specification		
System Architecture	Fibre Channel ports	Switch mode (default): 12- and 24-port configurations (12-port increment through Ports on Demand [PoD] license); universal (E, F, M, EX, D) ports

<b>Interoperability</b>	8/8 SAN Switch 8/24 SAN Switch 1606 Extension SAN Switch SN4000B SAN Extension Switch SN8000B 8-Slot SAN Backbone Director SN8000B 4-Slot SAN Director SN6500B Fibre channel Switch SN3000B Fibre channel Switch SN6000B 16Gb FC Switch Brocade 8Gb SAN Switch for HPE BladeSystem c-Class Brocade 16Gb SAN Switch for HPE BladeSystem c-Class Brocade 16Gb Fibre Channel SAN Switch Module for HPE Synergy	
<b>Performance</b>	Auto-sensing of 4, 8, and 16 Gbps port speeds.	
<b>ISL Trunking</b>	Frame-based trunking with up to eight 16 Gbps ports per ISL trunk; up to 128 Gbps per ISL trunk. Exchange-based load balancing across ISLs with DPS included in Fabric OS. There is no limit to how many trunk groups can be configured in the switch.	
<b>Aggregate bandwidth</b>	384 Gbit/sec	
<b>Fabric latency</b>	Latency for locally switched ports is 700 ns; Forward Error Correction (FEC) adds 400 ns between E_Ports (enabled by default).	
<b>Maximum frame size</b>	2112-byte payload	
<b>Classes of service</b>	Class 2, Class 3, Class F (inter-switch frames)	
<b>Port types</b>	D_Port (Diagnostic Port), E_Port, EX_Port, F_Port, M_Port (Mirror Port); self-discovery based on switch type (U_Port); optional port type control Access Gateway mode: F_Port and NPIV-enabled N_Port	
<b>Data traffic types</b>	Fabric switches supporting unicast	
<b>Media types</b>	Hot-pluggable, B-Series Branded Small Form Factor Pluggable (SFP), LC connector; Short-Wave Laser (SWL), Long-Wave Laser (LWL); distance depends on fiber-optic cable and port speed. Supports SFP+ (16/8 Gbit/sec) optical transceivers.	
<b>USB</b>	One USB port for system log file downloads or firmware upgrades	
<b>Fabric services</b>	Simple Name Server (SNS); Registered State Change Notification (RSCN), NTP, RADIUS, RCS (Reliable Commit Service), Dynamic Path Selection (DPS), Brocade Advanced Zoning, WEB TOOLS™. Optional Fabric Services include: Fabric Watch™, Extended Fabrics, ISL Trunking, End-to-End Performance Monitoring (APM) and Adaptive Networking with QoS.	
<b>Options</b>	SFP media, USB Device	
<b>Management</b>	<b>Management software supported</b>	SSH v2, HTTP/HTTPS, SNMP v1/v3, Telnet; SNMP; WEBTOOLS, B-series SAN Network Advisor, SMI-S, RADIUS, LDAP.
	<b>Management access</b>	10/100 Mbps Ethernet (RJ-45), in-band over Fibre Channel, serial port (RJ-45), and one USB port
	<b>Diagnostics</b>	POST and embedded online/offline diagnostics including FCPing, Pathinfo (FCTraceroute), Forward Error Correction (FEC), etc. Diagnostic Port (D-Port) diagnostic features for physical link trouble shooting
<b>Mechanicals</b>	<b>Enclosure</b>	Port Side exhaust airflow; power from back; 1U
	<b>Size</b>	Width: 438 mm (17.23 in.) Height: 43 mm (1.7 in.) Depth: 443 mm (17.45 in.)
	<b>System Weight</b>	7.82 kg (17.25 lb) with one power supply, without transceivers
<b>Environment</b>	<b>Temperature</b>	Operating: 0° to 40° C (32° to 104° F) Non-operating: -25° to 70° C (-13° to 158° F)
	<b>Humidity</b>	Operating: 10 to 85 percent non-condensing
	<b>Altitude</b>	Operating: Up to 3000 meters (9,842 feet) Storage: Up to 12 kilometers (39,370 feet)

	<b>Shock</b>	Operating: 20 g, 6 ms half-sine Non-operating: Half sine, 33G 11ms. 3/eg Axis
	<b>Vibration</b>	Operating: 0.5 g sine, 0.4 grms random, 5 to 500 Hz Non-operating: 2.0 g sine, 1.1 grms random, 5 to 500 Hz
<b>Power</b>	<b>Power Supply</b>	Single power supply with integrated system cooling fan; Optional hot-swappable dual redundant power supply
	<b>AC input</b>	85 V to 264 V ~5 A to 2.5 A
	<b>Input line frequency</b>	47 Hz to 63 Hz
	<b>Power Consumption</b>	80 watts with all 24 ports populated with 16 Gbps SWL optics 60 watts for empty chassis with no optics

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