

### Overview

#### HPE B-series SN6000B Fibre Channel Switch

To remain competitive, IT organizations must keep pace with ever-increasing workloads without a similar increase in their budgets or resources. While virtualization has provided some relief by enabling the benefits of faster deployment and consolidation, it also tends to put additional stress on data center networks. In addition, the move toward cloud computing, which promises greater efficiency and a more service-oriented business model, means that these networks will face even greater demands.

The HPE SN6000B 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 SN6000B Switch is configurable in 24, 36, or 48 ports and supports 4, 8, 10, 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 SN6000B 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.

#### The SN6000B is available in six models:

- HPE SN6000B 16Gb 48-port/48-port Active Power Pack+ Fibre Channel Switch
- HPE SN6000B 16Gb 48-port/24-port Active Power Pack+ Fibre Channel Switch
- HPE SN6000B 16Gb 48-port/48-port Active Fibre Channel Switch
- HPE SN6000B 16Gb 48-port/24-port Active Fibre Channel Switch
- HPE SN6000B 16Gb 48-port/24-port Active Port Side Air Intake Fibre Channel Switch
- HPE SN6000B 16Gb Bundled Fibre Channel switch

Power Pack+ includes additional software: Fabric Vision, ISL Trunking, and Extended Fabric.. Power Pack+ software provides the SAN administrator with the necessary tools to monitor the health and performance of the network, while also ensuring the highest levels of security, scalability and manageability.



HPE SN6000B Fibre Channel Switch

#### What's New

- Added HPE SANnav Management Software with 1-year, 3-year and 5-years term-license
- Updated SKUs (suffix changed from B to C),

#### Models

##### Description

##### SKU

#### HPE SN6000B 16Gb FC Switch

HPE SN6000B 16Gb 48-port/48-port Active Power Pack+ Fibre Channel Switch	QR481C
HPE SN6000B 16Gb 48-port/24-port Active Power Pack+ Fibre Channel Switch	QK754C
HPE SN6000B 16Gb 48-port/24-port Active Fibre Channel Switch	QK753C

## Standard Features

### Key Features and Benefits

- Delivers 16 Gbps performance with up to 48 ports in an energy-efficient, 1U form factor, providing maximum flexibility for diverse deployment and cooling strategies
- Features Ports on Demand (PoD) capabilities for fast, easy, and cost-effective scaling from 24 to 48 ports in 12-port increments
- Provides a flexible, simple, and easy-to-use SAN solution with industry-leading technology
- Supports highly virtualized, private cloud storage with multi-tenancy and non-stop operations
- Offers best-in-class port density and scalability for midrange enterprise SAN switches, along with redundant, hot-pluggable components and non-disruptive software upgrades
- Metro cloud connectivity features including integrated DWDM and dark fiber support (optional license)
- In-flight compression and encryption included providing efficient link utilization and security.
- Yields exceptional price/performance value, exceeding comparable Ethernet storage-based alternatives
- Unique Bundle model: The HPE SN6000B 16Gb Bundled Fibre Channel switch model facilitates ease of ordering by offering the HPE SN6000B 48/24 Fibre channel switch along with twenty-four 16Gb optical transceivers in one package. The HPE SN6000B 16Gb Bundled Fibre Channel switch model is offered at a lower price than the sum of the list prices of the HPE SN6000B 48/24 Fibre Channel switch and the 16Gb optical transceivers

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### SN6000B 16Gb FC Switch

- Simplifies enterprise SAN deployment by combining higher edge switch port density with exceptional scalability, performance and reliability
- Delivers 24, 36, or 48-ports in a 1U enclosure
- Provides 4 Gb/s, 8 Gb/s, 10 Gb/s, 16 Gb/s\* performance  
**Notes:** \* 16 Gb/s performance can be obtained between two 16 Gb/s capable devices.
- Employs optional Inter-Switch Link (ISL) Trunking to provide a high-speed data path between switches which enables a high speed data path between 16 Gb/s switches up to 128 Gb/s

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### Configuration Support

[https://h20628.www2.hp.com/km-ext/kmcsdirect/emr\\_na-c00403562-78.pdf](https://h20628.www2.hp.com/km-ext/kmcsdirect/emr_na-c00403562-78.pdf)

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### High-availability features

- Two integrated redundant, hot swappable power supplies with integrated cooling fans
- Enhanced Fault Detection Logic
- Parity protection on all data paths and system memory

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### Advanced Fabric Services

- Hardware Enforced Zoning
- Frame Filtering
- Built-in Web browser management tools
- In-flight Compression and Encryption
- Access Gateway
- Dynamic and System Monitoring Capabilities for High Reliability
- Virtual Fabrics

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### Cabinet Support

HPE (22U, 36U, and 42U) 10000 G2 Series, the Intelligent Series racks, and HPE (14U, 22U, 36U, 42U, and 47U) 11000 G2 Series racks.

**Notes:** To order factory integration, add 0D1 after the part number on your sales order.



## Standard Features

### Software Components, Standard, Base Models

#### Frame Filtering

An ASIC based capability that enables new applications and features. The switch has the ability to "view" the first 64 bytes of the Fibre Channel frame. At this time, Frame Filtering enables advanced capabilities such as Advanced Zoning and Fabric Vision functionality.

#### Advanced Zoning

WWN Zoning and Access Control are enforced by hardware that provides the same simple administration previously enforced only with software. Administrators can organize a physical fabric into logical groups and prevent unauthorized access by devices outside the Zone.

#### Web Tools

Web Tools is an intuitive and easy-to-use graphical interface that enables organizations to monitor and manage SAN fabrics. Tasks can be performed through a Java-capable Web browser from a standard laptop, desktop PC or workstation from any location within the enterprise.

#### In-flight Compression and Encryption

In-flight compression optimizes network performance within the data center and over long-distance links. Data is compressed at the source and uncompressed at the destination. Performance varies by data type, but generally achieve 2:1 compression with minimal impact on performance. Compression can be used in conjunction with in-flight encryption.

In-flight encryption minimizes the risk of unauthorized access for traffic within the data center and over long-distance links. It is switch-to-switch encryption, not device or data-at-rest encryption. Data is encrypted at the source and decrypted at the destination. Encryption and decryption are performed in hardware using the AES-GCM-256 algorithm, minimizing any impact on performance. Encryption can be used in conjunction with in-flight compression. This is complementary to data-at-rest encryption provided by the Encryption SAN Switch and the Encryption Blade for B-series SAN Directors.

#### Adaptive Networking

Adaptive Networking (AN) is a family of technologies which allow flexible control of traffic movement within the fabric which deliver application aware management of fabric resources. Applications may be used with multiple protocols and multiple classes of service. It includes the following features:

- **Ingress Rate Limiting:**  
Allows the ingress bandwidth of a port to be throttled to a rate lower than negotiated with the SAN node. This could be very useful for enterprises offering stepped levels of service and enforcing SLAs.
- **Quality of Service (QoS):**  
Enables zones with high, medium, and low priorities within a fabric on a zone by zone basis. This can be very useful for prioritizing array replication over MANs and WANs over less critical traffic.
- **Traffic Isolation Zones:**  
Defines paths through a fabric for some or all nodes. Failover allows a non-preferred path to be used if the preferred fails. TIZs use failover by default but it can be disabled if traffic should stop if a preferred path fails. TIZ can be used to manually map out traffic flows within a fabric based on application, priority, and topology.

#### Server Application Optimization

Server Application Optimization (SAO) improves overall application performance for physical servers and virtual machines. SAO, when deployed with B-Series Fibre Channel HBAs, extends B-Series Adaptive Networking from the B-series SAN fabric to the server infrastructure. This delivers application-level, fine-grain Quality of Service (QoS) management to the HBAs and related server applications.

Solution Requirements:

- SAO requires B-series HBA installed in the server



## Standard Features

### Software Components, Optional

#### SN6000B 16Gb Switch Power Pack+ Software Bundle

The Power Pack+ Software Bundle comes with the (SN6000B16Gb 48/48 Power Pack+ Switch and SN6000B 16Gb 48/24 Power Pack+ Switch) or as an optional software (bundle for the SN6000B 16Gb 48/48 FC Switch, the SN6000B 48/24 FC Switch and the SN6000B Bundled Fibre Channel switch). It includes the following:

- Fabric Vision
- Extended Fabric
- ISL Trunking

#### Fabric Vision

Fabric Vision offers innovative diagnostic, monitoring and management capabilities to help accelerate new application deployments, address SAN problems before they impact operations and reduce operational costs. It includes

- Monitoring and Alerting Policy Suite (MAPS): A policy-based monitoring tool with pre-built rules and automation that simplifies fabric-wide threshold configuration and monitoring.
- Flow Vision: A comprehensive tool that enables administrators to identify, monitor, and analyze specific application data flows without using taps to ensure optimized performance
- Health and performance dashboard: A single customizable screen displayed in HPE Management Portal that contains all critical SAN information for convenient review and analysis

#### Extended Fabric

Optional license which extends all of the scalability, reliability, and performance benefits of Fibre Channel Storage Area Networks (SANs) beyond the native 10 km distance specified by the Fibre Channel standard.

#### ISL Trunking

For high performance enhanced Trunking, this optional license logically groups up to eight E-ports to provide a high bandwidth trunk between two switches. Each 16Gb switch needs its own license. The switch operating system views the trunk as a single, high bandwidth resource (up to 128Gb) when routing connections between 16Gb switches. Connections are load-balanced across the individual links, which comprise the logical trunk group.

#### HPE SANnav Management Software

HPE SANnav Management Software is the next-generation SAN management application suite for HPE B-series SAN environments. It consists of SANnav Management Portal Software and SANnav Global View Software:

- SANnav Management Portal is a next-generation SAN management application with a simple browser-based user interface (UI) streamlining common workflows, such as configuration, zoning, deployment, troubleshooting, and reporting.
- SANnav Global View helps administrators visualize the health, performance and inventory of multiple SANnav Management Portal instances at data centers across the globe or a single multi-tenant data center using a simple, intelligent dashboard.

SANnav Management Portal and SANnav Global View not only transform SAN telemetry data into useful insights, such as health and performance scores, but also enable administrators to quickly associate real-time data with historical metrics and logs for in-depth analysis. This can help with spotting trends, establishing baselines, and identifying any behavioral changes over time.

HPE SANnav Management Software is available as a term-license for 1-year, 3-years and 5-years period as both – physical and electronic License-to-Use (LTU). It supports 8Gb, 16Gb and 32Gb FC Switches and Directors.



## Standard Features

### SAN Network Advisor Enterprise and Professional+

HPE SAN Network Advisor Enterprise and Professional+ are the enterprise-class products that support FOS products. SAN Network Advisor Enterprise provides complete B-series Directors Management including enterprise-class features/environments such as FICON, Fibre Channel Routing, FCIP, adaptive networking, etc. while SAN Network Advisor Professional+ provides the same feature set except for support for the DC SAN Backbone Director, SN800B 8-Slot Director, and FICON.

SAN Network Advisor Enterprise delivers unprecedented scalability, up to 100 fabrics and 15,000 switch ports, while SAN Network Advisor Professional+ scales to 36 SAN Fabrics and 2560 switch ports. To accommodate growth, there is an upgrade available to SAN Network Advisor Enterprise from SAN Network Advisor Professional Plus.

**Notes:** HPE SAN Network Advisor 14.4.5 supports only the Enterprise edition. Any migrations to 14.4.5 utilizing a Professional+ license will provide Enterprise level equivalent functionality while on 14.4.5. The Professional and Trial editions as well as the head-less SMI agent only editions are not supported in 14.4.5 for new installations or migration from previous HPE SAN Network Advisor versions.

See the HPE Single Point of Connectivity Knowledge (SPOCK) B-series stream for HPE SAN Network Advisor version support.

<https://www.hpe.com/storage/spock>

### Integrated Routing

Integrated Routing is an optional license which provides native Fibre Channel Routing (FCR) on a per-port basis, rather than limiting routing ports to those on a dedicated routing switch or blade. Just like traditional FCR, Integrated Routing uses EX\_Ports to import/export devices between fabrics, enabling selective device sharing while maintaining remote fabric isolation. Integrated Routing provides architecture flexibility to route on a port-by-port basis, enabling increased scalability and fault isolation.

### HPE Smart SAN for 3PAR

HPE Smart SAN, optional software for HPE 3PAR, makes end-to-end SAN configuration and management simple and reduces the probability of errors through automation. It is an application embedded in SAN components (array, hosts and switches) that enables 3PAR arrays to orchestrate configuration, settings and policies across the SAN. Smart SAN is supported with B-series Switches, HPE Fibre Channel adapters (HBAs) and 3PAR storage. HPE Smart SAN for 3PAR through its Target Driven Peer Zoning (TDPZ) feature enables customers to automate peer zoning, resulting in the creation of fewer zones and enables configuration of zones in minutes and not in hours. Through automation, it reduces the probability of errors and potential downtime. Additional information can be found here: <http://www.hpe.com/storage/3par>

#### Notes:

- Supports B-series 16Gb and 8Gb FC switches with FOS 7.4.0a or later.
- A list of supported HPE FC Adapters can be found at <http://www.hpe.com/storage/spock>
- Supports 3PAR StoreServ storage with 3.2.2 or later with only 16Gb target ports on HPE 3PAR StoreServ storage.



## Service and Support

### Warranty

(1-1-1) Hardware Warranty; 1-year parts; 1-year on-site (standard business hours, next business day response) and 1-year labor.

#### Notes:

- The hardware warranty covers firmware and embedded non-saleable software. For extended hardware installation and maintenance information, click the link below: <http://h20565.www2.hp.com/portal/site/hpsc/>
- Certain restrictions and exclusions apply. Consult the Customer Support Center for details.
- Hardware or Software product installation is not included in the warranty, but is available and highly recommended.

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### HPE Pointnext - Service and Support

**Get the most from your HPE Products.** Get the expertise you need at every step of your IT journey with **HPE Pointnext Services**. We help you lower your risks and overall costs using automation and methodologies that have been tested and refined by HPE experts through thousands of deployments globally. HPE Pointnext **Advisory Services** focus on your business outcomes and goals, partnering with you to design your transformation and build a roadmap tuned to your unique challenges. Our **Professional** and **Operational Services** can be leveraged to speed up time-to-production, boost performance and accelerate your business. HPE Pointnext specializes in flawless and on-time implementation, on-budget execution, and creative configurations that get the most out of software and hardware alike.

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### Consume IT on your terms

**HPE GreenLake** brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake accelerates digital transformation in a distributed, edge-to-cloud world.

- Get Faster time to market.
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

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### HPE SAN Deployment Service

Hewlett Packard Enterprise delivers complete design and implementation services for Fibre Channel, FCoE, FCIP, SAS, and iSCSI SAN connectivity components.

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-8527ENW.pdf>

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### HPE Basic Installation Service

Provides for the basic hardware installation of HPE branded storage devices to assist you in bringing your new hardware into operation in a timely and professional manner.

<https://h20195.www2.hp.com/v2/Getdocument.aspx?docname=5981-9356enw>

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### Free up resources with Operational Services from HPE Pointnext

HPE delivers services for IT by using proven best practices as well as automation and methodologies that have been tested and refined by HPE experts and artificial intelligence through thousands of deployments globally. Choose from the recommended services for customers purchasing from Hewlett Packard Enterprise or an authorized reseller. Services are quoted using Hewlett Packard Enterprise order configuration tools.

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### HPE Datacenter Care

Helps customers to address the pressing needs of IT today and smoothly transform to a more agile cloud-like IT operations model. We help run and monitor your IT by offloading the day to day routine tasks, helping customers be more predictive and proactive, and saving time with one place to call with for all of their IT. Datacenter Care is available as both tailored statement of work and as a packaged service for 3, 4, and 5 year terms.



## Service and Support

Partner with an assigned account team backed by local and global experts, access HPE enhanced call experience with priority access, use specialized support for complex technologies, choose hardware and software support for your devices, implement proactive monitoring to stay ahead of issues, and access HPE IT best practices and IP. HPE Datacenter Care advantage options are available to add to your agreement to give you specialized expertise for performance, security, back up analysis, and much more.

Learn more: <https://www.hpe.com/us/en/services/datacenter-hybrid-services.html>

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### HPE Pointnext Tech Care

HPE Pointnext Tech Care is the new operational service experience for HPE products. Tech Care goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Pointnext Tech Care has been reimagined from the ground up to support a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Pointnext

Tech Care is available in three response levels. Basic, which provides 9x5 business hour availability and a 2 hour response time.

Essential which provides a 15 minute response time 24x7 for most enterprise level customers, and Critical which includes a 6 hour repair commitment where available and outage management response for severity 1 incidents.

Learn more: <https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a00108652enw>

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### Related Services

#### HPE Service Credits

Offers flexible services and technical skills to meet your IT demands as your business evolves. With a menu of services, you can access additional resources and specialist skills to help you maintain peak performance of your IT. HPE Service Credits help you proactively respond to your dynamic IT and business needs

#### HPE Education Services

Provides comprehensive training designed to expand the skills of your IT staff and keep them up to speed with the latest technologies.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options

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### Parts and Materials

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

#### Defective Media Retention

An option available with HPE Datacenter Care and HPE Pointnext Tech Care and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

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## Service and Support

### AI Powered and Digitally Enabled Support Experience

Achieve faster time to resolution with access to product-specific resources and expertise through a brand-new digital and data driven customer experience.

Sign into the customer engagement platform, featuring modern self-serve case creation and management capabilities with inline knowledge recommendations. You will find powerful troubleshooting support through a new intelligent virtual agent with seamless transition when needed to a live support agent. <https://support.hpe.com/hpesc/public/home/signin>

### HPE Support Center

The HPE Support Center is a personalized online support portal with access to information, tools and experts to support HPE business products. Submit support cases online, chat with Hewlett Packard Enterprise experts, access support resources or collaborate with peers.

Learn more <http://www.hpe.com/support/hpesc>

Hewlett Packard Enterprise Support Center Mobile App\* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.

HPE Insight Remote Support and HPE Support Center are available at no additional cost with a HPE warranty, HPE Support Service or HPE contractual support agreement.

**Notes** :\*HPE Support Center Mobile App is subject to local availability

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### For more information

<http://www.hpe.com/services>

<https://www.hpe.com/us/en/services/operational.html>

To learn more on HPE Storage Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Contact information for a representative in your area can be found at "Contact HPE"

<https://www.hpe.com/us/en/contact-hpe.html>

HPE Support Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
- Customers purchasing from a commercial reseller can find HPE Support Services at

<https://ssc.hpe.com/portal/site/ssc/>

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## Configuration Information

### Step 1: Base Configuration

Select one:

#### Description

#### SKU

HPE SN6000B 16Gb 48-port/48-port Active Power Pack+ Fibre Channel Switch

QR481C

#### Notes:

- 16Gb 48-port FC Switch with 48 active ports; rackmount kit; accessory kit (enterprise safety and regulatory information, installation guide, rack-mounting instructions), power cords, serial cable, base software of Advanced Fabric OS, Advanced Web Tools, Advanced Zoning, Brocade EZ Switch, and Power Pack+ software of Adaptive Networking, ISL Trunking, Extended Fabric, , Server Application Optimization, and Fabric Watch.
- Requires optical transceivers listed below.

HPE SN6000B 16Gb 48-port/24-port Active Power Pack+ Fibre Channel Switch

QK754C

#### Notes:

- 16Gb 48-port FC Switch with 24 active ports; rackmount kit; accessory kit (enterprise safety and regulatory information, installation guide, rack-mounting instructions), power cords, serial cable, base software of Advanced Fabric OS, Advanced Web Tools, Advanced Zoning, Brocade EZ Switch, and Power Pack+ software of Adaptive Networking, ISL Trunking, Extended Fabric, Server Application Optimization, and Fabric Watch.
- Requires optical transceivers listed below.

HPE SN6000B 16Gb 48-port/24-port Active Fibre Channel Switch

QK753C

#### Notes:

- 16Gb 48-port FC Switch with 24 active ports; rackmount kit; accessory kit (enterprise safety and regulatory information, installation guide, rack-mounting instructions), power cords, serial cable, base software of Advanced Fabric OS, Advanced Web Tools, Brocade EZ Switch and Advanced Zoning.
- Requires optical transceivers listed below.

HPE SN6000B SAN Switch 12-port Upgrade E-LTU

TC356AAE

- Physical License – TC356A

#### Notes:

- 12 port upgrade license for SN6000B 16Gb 48/24 Power Pack FC Switch (QK754B), SN6000B 16Gb 48/24 FC Switch (QK753B), SN6000B 16Gb 48/24 Port Side Air Intake FC Switch (E7X99A) and the SN6000B 16Gb Bundled Fibre Channel Switch (C8R08A)
- Most HPE B-series software licenses are now available through the Electronic Delivery (E-Delivery) mechanism. The E-Delivery software licenses with 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.



## Configuration Information

### Step 2: Options

#### Description

SKU

#### Fibre Channel Transceivers

HPE B-series 8Gb Shortwave Fibre Channel 1 Pack SFP+ Transceiver AJ716B

**Notes:** AJ716A is not supported with the SN6000B 16Gb FC Switch.

HPE B-series 16Gb SFP+ Short Wave Transceiver QK724A

HPE B-series 16Gb LW 25km FC SFP 1-pack Transceiver H6Z29A

Distance - Maximum	HPE Standard OM3 Cable	HPE PremierFlex OM3+ Cable	HPE PremierFlex OM4 Cable
16Gb performance:	100 meters	100 meters	125 meters
8Gb performance:	150 meters	150 meters	190 meters
4Gb performance:	380 meters	380 meters	400 meters

HPE B-series 16Gb SFP+ Long Wave 10km Transceiver QK725A

HPE B-series 8Gb Long Wave 10km Fibre Channel 1 Pack SFP+ Transceiver AJ717A

HPE B-series 10Gb SFP+ Short Range Transceiver QK726A

HPE SN6000B supports the following HPE Complete SmartOptics 16Gb Transceivers—16G FC embedded DWDM Solution

**Notes:** For more information regarding Smartoptics SKUs/Accessories/Cables and ordering rules please refer HPE Complete Smartoptics QuickSpecs.

<https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=c05205226>

#### Accessories

HPE B-series 4G USB Drive N9Y63A

HPE SN3000B/SN6000B 16Gb SAN Switch Accessory Kit E7Y00A

#### Notes:

- When any of the SN6000B 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
- 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.

#### Optical Cables

##### HPE PremierFlex OM4+ Fiber Optic Cables

HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 1m Cable QK732A

HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 2m Cable QK733A

HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 5m Cable QK734A

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 QK737A

##### 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 AJ836A

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



## Configuration Information

### Step 3: Optional Software

**Notes:** For Fabric OS (FOS) minimum requirements, please refer to: <http://www.hpe.com/storage/spock>

Description	SKU
<b>Software for SN6000B 16Gb FC Switch</b>	
HPE SANnav Management Portal Base 1yr E-LTU	R3P45AAE
<ul style="list-style-type: none"> <li>Physical License – R3P45A</li> </ul>	
HPE SANnav Management Portal Enterprise 1yr E-LTU	R3P46AAE
<ul style="list-style-type: none"> <li>Physical License – R3P46A</li> </ul>	
HPE SANnav Global View 1yr E-LTU	R3P47AAE
<ul style="list-style-type: none"> <li>Physical License – R3P47A</li> </ul>	
HPE SANnav Management Portal Base 3yr E-LTU	R3P48AAE
<ul style="list-style-type: none"> <li>Physical License – R3P48A</li> </ul>	
HPE SANnav Management Portal Enterprise 3yr E-LTU	R3P49AAE
<ul style="list-style-type: none"> <li>Physical License – R3P49A</li> </ul>	
HPE SANnav Global View 3yr E-LTU	R3P50AAE
<ul style="list-style-type: none"> <li>Physical License – R3P50A</li> </ul>	
HPE SANnav Management Portal Base 5yr E-LTU	R4P29AAE
<ul style="list-style-type: none"> <li>Physical License – R4P29A</li> </ul>	
HPE SANnav Management Portal Enterprise 5yr E-LTU	R4P30AAE
<ul style="list-style-type: none"> <li>Physical License – R4P30A</li> </ul>	
HPE SANnav Global View 5yr E-LTU	R4P31AAE
<ul style="list-style-type: none"> <li>Physical License – R4P31A</li> </ul>	

#### Notes:

- The Base edition of HPE SANnav Management Portal does not support management of director class switches.
- HPE SANnav Management Software License-to-Use (LTU/E-LTU) includes maintenance and support for the duration of the license. At the end of the license period, customer will need to purchase a new license to continue using the software. Software renewal via HPE PointNext is not allowed/supported.
- A 90-day, full-featured trial license for SANnav Management Portal and SANnav Global View is available.

HPE B-series Mid Range Switch Power Pack+ E-LTU	T5522BAE
HPE 8/16Gb Mid Range Switch Fabric Vision E-LTU	TC510AAE
<ul style="list-style-type: none"> <li>Physical License - TC510B</li> </ul>	
HPE B-series Mid/High End Extended Fabric E-LTU	J4V63AAE
<ul style="list-style-type: none"> <li>Physical License J4V63A</li> </ul>	
HPE B-series Mid/High End SAN Switch ISL Trunking E-LTU	J4V61AAE
<ul style="list-style-type: none"> <li>Physical License - 313452-B21</li> </ul>	

## Configuration Information

### Description

	SKU
HPE B-series Integrated Routing E-LTU	T5528BAE
<ul style="list-style-type: none"><li>Physical License – T5528A</li></ul>	
HPE 8/40 and 1606 Extension SAN Switch FICON CUP E-LTU	TA748BAE

### Notes:

- The FICON CUP support is contingent upon IBM certification. Please refer to The HPE B-Series FICON connectivity stream at HPE "Single Point of Connectivity Knowledge" (SPOCK) for the latest information.
- Most HPE B-series software licenses are now available through the Electronic Delivery (E-Delivery) mechanism. The E-Delivery software licenses with 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 AE) and the second is the physical version.
- Universal Temporary Licenses (UTLs) are available for trial usage or to test select features before purchasing permanent licenses. These UTLs enable optional features on B-series Directors and Switches on a temporary basis for one-time usage. Additional information can be found at the following URL using your HPE Passport credentials:

**<https://h20392.www2.hpe.com/portal/swdepot/displayProductInfo.do?productNumber=BROCADETRIAL>**

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## Technical Specifications

### Family Information

Features	8/8 SAN Switch Base and 8/8 SAN Switch	8/24 SAN Switch Base	SN3000B 16Gb FC Switch	SN3600B 32Gb FC Switch and SN3600B 32Gb FC Power Pack+
<b>Targeted Environment</b>	Workgroups, Departments	Workgroups, Departments	Workgroups, Departments	Workgroups, Departments
<b>Fibre Channel Port Bandwidth</b>	8Gbps	8Gbps	16Gbps	32Gbps
<b>Aggregate device bandwidth</b>	64-192 Gbps	128-192 Gbps	192-384 Gbps	768 Gbps
<b>OS Support</b>	<b>Notes: Please Refer to SPOCK <a href="https://www.hpe.com/storage/spock">https://www.hpe.com/storage/spock</a></b>			
<b>Storage system support</b>	3PAR StoreServ, StoreVirtual 4000, P9000/XP, P6000/EVA, P2000/MSA			
<b>FC Ports</b>	8 Enabled 24 Max	16 Enabled 24 Max	12 or 24 Enabled 24 Max	8 or 24 Enabled 24 Max
<b>SFP</b>	B-series	B-series	B-series	B-series
<b>Advanced Trunking</b>	Optional Upgrade	Included with Power Pack+ or Optional Upgrade	Included with Power Pack+ Upgrade	Included with Power Pack+ or Optional Upgrade
<b>Adaptive Networking</b>	Included	Included	Included	Included
<b>Form factor</b>	1U	1U	1U	1U
<b>Zoning Software</b>	Yes (Included)	Yes (Included)	Yes (Included)	Yes (Included)
<b>Hot plug, redundant power supplies</b>	No	No	Optional	No
<b>Hot plug fans</b>	No	No	Yes (integrated with power supply)	Yes (integrated with power supply)



## Technical Specifications

Features	SN600B 16 Gb FC Switch and SN600B 16 Gb FC Power Pack+	SN6600B 32 Gb FC Switch and SN6600B 32 Gb FC Power Pack+	SN6600B 32 Gb Bundled (SFP+) FC Switch and SN6600B 32 Gb Power Pack+ Bundled (SFP+) FC Switch
<b>Targeted Environment</b>	Workgroups, Departments	Workgroups, Departments	Workgroups, Departments
<b>Fibre Channel Port Bandwidth</b>	16 Gbps	32 Gbps	32 Gbps
<b>Aggregate device bandwidth</b>	384- 768 Gbps	2 Tbps	2 Tbps
<b>OS Support</b>	<b>Notes: Please Refer to SPOCK <a href="https://www.hpe.com/storage/spock">https://www.hpe.com/storage/spock</a></b>		
<b>Storage system support</b>	3PAR StoreServ, StoreVirtual 4000, P9000/XP, P6000/EVA, P2000/MSA		
<b>FC Ports</b>	24 or 48 Enabled 48 Max	24 or 48 enabled 64 Max	24 or 48 Enabled 64 Max
<b>SFP</b>	B-series	B-series (16 Gb or 32 Gb)	B-series, 24 or 48 32 Gb SFP+ included in the box
<b>Advanced Trunking</b>	Included with Power Pack+ or Optional Upgrade	Included with Power Pack+ or Optional Upgrade	Included with Power Pack+ or Optional Upgrade
<b>Adaptive Networking</b>	Included	Included	Included
<b>Form factor</b>	1U	1U	1U
<b>Zoning Software</b>	Yes (Included)	Yes (Included)	Yes (Included)
<b>Hot plug, redundant power supplies</b>	Yes	Yes	Yes
<b>Hot plug fans</b>	Yes (integrated with power supply)	Yes (integrated with power supply)	Yes (integrated with power supply)



## Technical Specifications

Features	SN6500B 16Gb FC Switch and SN6500B 16Gb FC Power Pack+	SN4000B Power Pack+ SAN Extension Switch	1606 Extension SAN Switch
<b>Targeted Environment</b>	Workgroups, Departments	Data Centers; long distance replication, multiprotocol SAN Fabrics	Data Centers
<b>Fibre Channel Port Bandwidth</b>	16Gbps	16Gbps	8Gbps
<b>Ethernet</b>		1/10/40 Gbps Ethernet	1Gbps Ethernet
<b>Aggregate device bandwidth</b>	768-1536-Gbps		
<b>OS Support</b>	<b>Notes: Please Refer to SPOCK <a href="https://www.hpe.com/storage/spock">https://www.hpe.com/storage/spock</a></b>		
<b>Storage system support</b>	3PAR StoreServ, StoreVirtual 4000, P9000/XP, P6000/EVA, P2000/MSA		
<b>FC Ports</b>	48 or 96 Enabled 96 Max	24 FC Ports Enabled 24 Max	4 or 16 Enabled 16 Max
<b>Ethernet Ports</b>	N/A	16 Enabled	2 or 6 Enabled 6 Max
<b>SFP</b>	B-series	B-series	B-series
<b>Advanced Trunking</b>	Included with Power Pack+ or Optional Upgrade	Included	Included with Power Pack+ or Optional Upgrade
<b>Adaptive Networking</b>	Included	Included	Included
<b>Form factor</b>	2U	2U	1U
<b>Zoning Software</b>	Yes (Included)	Yes (Included)	Yes (Included)
<b>Hot plug, redundant power supplies</b>	Yes	Yes	Yes
<b>Hot plug fans</b>	Yes	Yes	Yes



## Technical Specifications

Features	SN8000B 8-Slot SAN Director Power Pack+	SN8600B 8-Slot SAN Director Power Pack+
<b>Targeted Environment</b>	Cloud Optimized Data Centers	Cloud Optimized Data Centers
<b>Port Bandwidth</b>	Up to 16Gbps	Up to 32 Gbps
<b>Aggregate device bandwidth</b>	10.2Tbps	20.48 Tbps
<b>OS Support</b>	<b>Notes: Please Refer to SPOCK <a href="https://www.hpe.com/storage/spock">https://www.hpe.com/storage/spock</a></b>	
<b>Storage system support</b>	3PAR StoreServ, StoreVirtual 4000, P9000/XP, P6000/EVA, P2000/MSA	
<b>Ports</b>	Up to 512 SFP	512 32 Gbps ports or a 640-port equivalent with 128 Gbps (32 Gbps×4 QSFP ports)
<b>SFP</b>	B-series	B-series
<b>Advanced Trunking</b>	Included with Power Pack	Included with Power Pack
<b>Adaptive Networking</b>	Included	Included
<b>Form factor</b>	14U	14U
<b>Zoning Software</b>	Yes (included)	Yes (included)
<b>Hot plug, redundant power supplies</b>	Yes	Yes
<b>Hot plug fans</b>	Yes	Yes





## Technical Specifications

Features	SN8000B 4-Slot SAN Director and 4-Slot SAN Director Power Pack+	SN8600B 4-slot SAN Director Power Pack+
<b>Targeted Environment</b>	Cloud Optimized Data Centers	Cloud Optimized Data Centers
<b>Port Bandwidth</b>	Up to 16Gbps	Up to 32Gbps
<b>Aggregate device bandwidth</b>	5.1 Tbps	10.24 Tbps
<b>OS Support</b>	<b>Notes: Please Refer to SPOCK <a href="https://www.hpe.com/storage/spock">https://www.hpe.com/storage/spock</a></b>	
<b>Storage system support</b>	3PAR StoreServ, StoreVirtual 4000, P9000/XP, P6000/EVA, P2000/MSA	
<b>Ports</b>	Up to 256 SFP	Up to 256 32 Gbps ports or a 320-port equivalent with 16 ICL ports.
<b>SFP</b>	B-series	B-Series
<b>Advanced Trunking</b>	Included with Power Pack or Optional Upgrade	Included with Power Pack
<b>Adaptive Networking</b>	Included	Included
<b>Form factor</b>	9U	9U
<b>Zoning Software</b>	Yes (included)	Yes (Included)
<b>Hot plug, redundant power supplies</b>	Yes	Yes
<b>Hot plug fans</b>	Yes	Yes



## Technical Specifications

Features	Brocade 16Gb SAN Switch for HPE c-Class BladeSystem	Brocade 16Gb Fibre Channel SAN Switch Module for HPE Synergy	Brocade 32Gb Fibre Channel SAN Switch Module for HPE Synergy
<b>Targeted Environment</b>	Enterprise, Datacenters, Workgroups, Departments	Enterprise, Datacenters, Workgroups, Departments	Enterprise, Datacenters, Workgroups, Departments
<b>Port Bandwidth</b>	16 Gbps	16 Gbps	32 Gbps
<b>Aggregate device bandwidth</b>	448 Gbps	576 Gbps (36 ports X 16 Gbps)	896 Gbps (28 ports x 32Gbps)
<b>OS Support</b>	<b>Notes: Please Refer to SPOCK <a href="https://www.hpe.com/storage/spock">https://www.hpe.com/storage/spock</a></b>		
<b>Storage system Support</b>	3PAR StoreServ, Nimble, StoreVirtual 4000, P9000/XP7, MSA 2050/1050		
<b>Ports</b>	12 external /16 internal	8 SFP+ external, 4 QSFP external /12 internal	8 SFP+ external, 2 QSFP external /12 internal
<b>SFP</b>	B-series	B-series	B-series
<b>Advanced Trunking</b>	Included with Power Pack+ or Optional Upgrade	Included with Power Pack+ or Optional Upgrade	Included with Power Pack+ or Optional Upgrade
<b>Adaptive Networking</b>	Included	Included	Included
<b>Form factor</b>	Embedded	Embedded	Embedded
<b>Zoning Software</b>	Yes (Included)	Yes (Included)	Yes (Included)
<b>Hot plug, redundant power supplies</b>	Yes, in BladeSystem Enclosure	Yes, in Synergy Frame	Yes, in Synergy Frame
<b>Hot plug fans</b>	Yes, in BladeSystem Enclosure	Yes, in Synergy Frame	Yes, in Synergy Frame



## Technical Specifications

### System Architecture

#### Fibre Channel ports

Switch mode (default): 24-, 36-, and 48-port configurations (12-port increments through Ports on Demand [PoD] licenses); universal (E, F, M, D, EX) ports

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### Scalability

Full fabric architecture: <http://www.hpe.com/support/san-documentation>

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### Certified maximum

Refer to **SAN Design Guide** for current configuration information.

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### Interoperability

- 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
  - SN6000B Fibre Channel Switch
  - SN3000B Fibre Channel 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
- 

### Performance

Auto-sensing of 4, 8, and 16 Gbps port speeds; 10 Gbps and optionally programmable to fixed port speed.

---

### ISL Trunking

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.

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### Aggregate bandwidth

768Gbit/sec

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### Fabric latency

Latency for locally switched ports is 700 ns; encryption/compression is 5.5 sec per node; Forward Error Correction (FEC) adds 400 ns between E\_Ports (enabled by default).

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### Maximum frame size

2112-byte payload

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### Classes of service

Class 2, Class 3, Class F (inter-switch frames)

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## Technical Specifications

### Port types

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.

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### Data traffic types

Fabric switches supporting unicast

---

### Media types

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+ (16/10/8 Gbit/sec) optical transceivers.

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### USB

One USB port for system log file downloads or firmware upgrades

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### Fabric services

Adaptive Networking (Ingress Rate Limiting, Traffic Isolation, QoS); Bottleneck Detection; Advanced Zoning (default zoning, port/WWN zoning, broadcast zoning); Dynamic Fabric Provisioning (DFP); Dynamic Path Selection (DPS); Extended Fabrics; Enhanced BB credit recovery; FDMI; Frame Redirection; Frame-based Trunking; FSPF; Integrated Routing; IPoFC; ISL Trunking; Management Server; NPIV; NTP v3; Port Fencing; Registered State Change Notification (RSCN); Reliable Commit Service (RCS); Server Application Optimization (SAO); Simple Name Server (SNS); Virtual Fabrics (Logical Switch, Logical Fabric)

---

### System Architecture

- **Security**  
AES-GCM-256 encryption on ISLs; DH-CHAP (between switches and end devices), FCAP switch authentication; FIPS 140-2 L2-compliant, HTTPS, IPsec, IP filtering, LDAP with IPv6, Port Binding, RADIUS, User-defined Role-Based Access Control (RBAC), Secure Copy (SCP), Secure RPC, SFTP, SSH v2, SSL, Switch Binding, Trusted Switch.
  - **Extension**  
Fibre Channel, in-flight compression and encryption (AES-GCM-256); integrated 10 Gbps Fibre Channel for DWDM MAN connectivity
  - **Options**  
SFP media, USB Device
- 

### Management

- **Management software supported**  
HTTP, SNMP v1/v3 (FE MIB, FC Management MIB), SSH; Auditing, Syslog; Advanced Web Tools, SAN Network Advisor Enterprise or SAN Network Advisor Professional/Professional Plus; Command Line Interface (CLI); SMI-S compliant; Administrative Domains; trial licenses for add-on capabilities
  - **Management access**  
10/100 Mbps Ethernet (RJ-45), in-band over Fibre Channel, serial port (RJ-45), and one USB port
  - **Diagnostics**  
D\_Port offline diagnostics, including electrical/ optical loopback, link traffic/latency/distance; POST and embedded online/offline diagnostics, including environmental monitoring, FCping and Pathinfo (FC traceroute), frame viewer, non-disruptive daemon restart port mirroring (SPAN port), optics health monitoring, power monitoring, RAStrace logging, and Rolling Reboot Detection (RRD)
- 



## Technical Specifications

### Mechanicals

- **Enclosure**  
Port side Intake and Port side Exhaust airflow models available; power from back; 1U
  - **Size**  
Width: 438 mm (17.23 in.)  
Height: 43 mm (1.7 in.)  
Depth: 443 mm (17.45 in.)
  - **System Weight**  
9.16 kg (20.20 lb) with two power supply FRUs, without transceivers
- 

### Environment

- **Temperature**  
Operating: 0° to 40° C (32° to 104° F)  
Non-operating: -25° to 70° C (-13° to 158° F)
  - **Humidity**  
Operating: 10 to 85 percent non-condensing
  - **Altitude**  
Operating: Up to 3000 meters (9,842 feet)  
Storage: Up to 12 kilometers (39,370 feet)
  - **Shock**  
Operating: 20 g, 6 ms half-sine  
Non-operating: Half sine, 33G 11ms. 3/eg Axis
  - **Vibration**  
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
- 

### Power

- **Power Supply**  
Dual, hot-swappable redundant power supplies with integrated system cooling fans
  - **AC input**  
85 V to 264 V ~5 A to 2.5 A
  - **Input line frequency**  
47 Hz to 63 Hz
  - **Power Consumption**  
110 watts with all 48 ports populated with 16 Gbps SWL optics 72 watts for empty chassis with no optics
- 



## Summary of Changes

Date	Version History	Action	Description of Change
02-Aug-2021	Version 29	Changed	Overview, Service and Support and Configuration Information sections were updated.
05-Oct-2020	Version 28	Changed	Updated physical software licenses
03-Aug-2020	Version 27	Changed	QuickSpecs layout was updated and Branding Refresh was applied.
15-Jun-2020	Version 26	Changed	Added PP+ LTU to list of Optional Software
06-Apr-2020	Version 25	Changed	Overview, Standard Features, Configuration Information and Technical Specifications sections were updated
03-Feb-2020	Version 24	Changed	Added SAnnv 5-years LTU
03-Sep-2019	Version 23	Changed	Updated SANnav details
24-Oct-2018	Version 22	Changed	Overview, Product Highlights, Family Information, Service and Support, technical Specifications and Configuration Information sections were revised
23-Oct-2017	Version 21	Changed	Care Pack naming and Service and Support- Parts and Materials updated.
16-Dec-2016	Version 20	Added	Smartoptics was added
07-Jun-2016	Version 19	Changed	Changes made to the Models, overview, service and support and Family information sections.
22-Jan-2016	Version 18	Changed	Changes were made throughout the entire QuickSpecs.
24-Sept-2015	Version 17	Changed	Changes made the Technical Specs Section
04-Sep-2015	Version 16	Changed	Changes made the Products Highlights, Family Info, Configuration Info and Technical Specs Sections.
10-Jun-2014	Version 15	Changed	Product highlights and Configuration Information were revised.
23-May-2014	Version 14	Changed	Text formatted in Configuration Information section.
20-Dec-2013	Version 13	Changed	HPE B-series 16b Long Wave 25km Fibre Channel SFP+ 1 Pack Fibre Channel Switches was added.
09-Dec-2013	Version 12	Changed	HPE SreFabric B-series 8Gb and 16Gb Mid-Range Switch Fabric Vision LTU was added Software for SN6000B 16Gb FC Switch in Configuration Information HPE 8/40 SAN Switch and 8/40 SAN Switch Power Pack+ was removed from Family Information
15-Oct-2013	Version 11	Changed	Fabric Vision was added Product Highlights SN3000B and SN6500B Fibre Channel Switches were added Interoperability 2408 FCoE CN Switch and 2408 FCoE CN Switch Power Pack+ was removed from Family Information chart
30-Sep-2013	Version 10	Changed	Optional Software was revised.
22-Mar-2013	Version 9	Changed	Configuration Information- Removed part numbers and descriptions.
08-Mar-2013	Version 8	Changed	Family Information Updated Sage system support.
15-Feb-2012	Version 7	Changed	Changes made the Family Information Section.
21-Dec-2011	Version 6	Changed	Change made in Configuration Information: description update in Optical Cables.
04-Dec-2011	Version 5	Changed	Changes were made throughout the entire QuickSpecs.
13-Aug-2011	Version 4	Changed	Changes were made in Overview, Models, Product Highlights, Configuration Information and Technical Specifications sections.
14-Nov-2011	Version 3	Changed	HPE 16GB Long Wave B-series 10km FC SFP+ 1 Pack was added and HPE LC-SC Optical Cables were removed from Step 2 in Configuration Information.

## Summary of Changes

Date	Version History	Action	Description of Change
28-Oct-2011	Version 2	Changed	Key Features and Benefits was revised in Features and Benefits SN6000B 16Gb FC Switch, Advanced Fabric Services, Integrated Fibre Channel Extension and SAN Network Advisor Professional were updated and In-flight Compression and Encryption were added Product Highlights Configuration Information was revised throughout Aggregate bandwidth and Media types were modified in System Architecture
26-Sep-2011	Version 1	New	New QuickSpecs



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