# HPE SN6750B 64Gb 48/128 48-port 64Gb Short Wave SFP56 Integrated Fibre Channel Switch (R8U61A)



## What's new

- Features switch offerings with 64Gb optics as well as Port-on-Demand upgrade kits bundled with 64Gb optics or 64Gb double-density (DD) optics, enabling scaling from 48 to 128 ports.
- HPE B-series Gen7 64Gb Fibre Channel Switch technology enables organizations to realize a self-learning, self-optimizing, and self-healing autonomous SAN.

## Overview

Are you struggling to meet the I/O demands of hyper-scale virtualization, large cloud infrastructures, and growing flash-based storage environments?

The HPE B-series SN6750B Fibre Channel Switch is an ultra-dense, high-performance, highly scalable, enterprise-class storage networking switch delivering Gen7 64Gb Fibre Channel capabilities. It is designed to support data growth, demanding workloads, and data center consolidation in large scale enterprise infrastructures. Delivering 64Gb performance and high port density, it accelerates data access, adapts to evolving requirements, and drives 24x7 businesses. It can scale from 48 to 128 ports with Port On Demand (POD) upgrades in a 2U package enabling organizations to create high-scale fabrics in less space.  In addition, with a 50% latency reduction compared to the previous generation and no oversubscription, the switch improves performance of NVMe

storage and high-transaction workloads.[1]

## Features

### Enhanced Security

With enhanced security and autonomous SAN technology, the HPE B-series SN6750B FC Switch takes the guesswork out of protecting and managing a network.

It enables a cyber-resilient network that protects against security threats, enables nonstop operations, and increases management automation.

### Increase Performance for Application and Solid State Storage Architectures

The HPE B-series SN6750B Fibre Channel Switch delivers increased performance through a combination of improved throughput and low latency across 64Gb links in hyper-scale virtualization, large cloud infrastructures, and growing flash-based storage environments.

Improved performance of NVMe storage with 50% lower switching latency than 32Gb. Latency for locally switched ports is 460 ns including forward error correction (FEC). [1]

With 96 SFP+ ports and 16 DD ports, it can scale up to 128 device ports for an aggregate throughput of 8.192Tbps. [1]

### Ultra-dense and Highly Scalable

The HPE B-series SN6750B Fibre Channel Switch scales up to 128 device ports in an efficiently designed 2U form factor, delivering increased port density and space utilization for simplified scalability.

Each of the 96 SFP+ ports and 16 DD ports supports 8, 10, 16, 32, and 64Gb FC speeds.

Provides flexibility to utilize high-speed 64Gb, 64Gb DD, 32Gb, 10Gb optics on demand to meet growing data center needs and provide backward compatibility to older infrastructures.

## Technical specifications

## HPE SN6750B 64Gb 48/128 48-port 64Gb Short Wave SFP56 Integrated Fibre Channel Switch

| | |
|---|---|
| **Product Number** | R8U61A |
| **Port speed** | 64Gb |
| **Aggregate switch bandwidth** | 8.192Tbps |
| **Encryption capability** | In-flight Encryption |
| **Protocol supported** | Fibre Channel |
| **Management software** | All offerings include Fabric Vision, ISL Trunking, Extended Fabric, Integrated Routing, and FICON CUP. (The HPE B-series SN6750B Fibre Channel Switch now comes standard with all the software features previously associated with Power Pack+) |
| **Availability features** | Hot code load, Ports-on-Demand with no downtime |
| **Form factor** | 2U |
| **Model availability** | Bundled with 48 64Gb optics and offered in 48-port active port-side-exhaust or 48-port active port-side-intake |
| **Upgradability** | 24-port SFP+ or 32-port DD (includes 16 64Gb DD optics) Port-on-Demand upgrade kits enabling additional fibre channel ports |
| **Media types** | SFP+ and DD Transceivers |
| **Ports** | 48 to 128<br>96 SFP+ ports and 16 DD ports (each DD port provides 2 SN connections, making 32 ports available for device or ISL connectivity) |
| **Product dimensions** | 440 x 86.7 x 609.6 mm |
| **Weight** | 18.92 kg with two power supply FRUs and three fan FRUs, without transceivers |

[1] Internal Brocade comparison to Brocade G730 Switch (HPE SN6600B Fibre Channel Switch), March 2021. (https://docs.broadcom.com/doc/G730-Switch-PB)

For additional technical information, available models and options, please reference the QuickSpecs

## HPE Services

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The Defective Media Retention (DMR) service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction. Comprehensive Defective Material Retention (CDMR) allows you to keep all data retentive components.

## HPE GreenLake

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