

# HPE SN8700C 16-SLOT DIRECTOR FABRIC-3 MODULE (R7L01A)

## C-series Switches



### WHAT'S NEW

- New subscription-based Advantage and Premier license bundles with DCNM, Enterprise and SAN Analytics
- 64Gb Fibre Channel Module with 32Gb SFPs bundled

### OVERVIEW

Are you looking to modernize your storage area network?

Today's mission-critical storage environments require greater consistency, predictability, and performance to keep pace with growing business demands. Faced with explosive data growth, data centers need more I/O capacity to accommodate the massive amounts of data, applications, and workloads.

The HPE C-series SN8700C Fibre Channel Director Switch is a director-class SAN switch designed for deployment in small to

medium-sized storage networks to support enterprise clouds and business transformation. It layers a comprehensive set of intelligent features onto a high-performance, protocol-independent switch fabric.

The HPE SN8700C Director Switch enables enterprise clouds, transforms large storage area networks, lowers operating costs, and deploys Fibre Channel (FC) and IBM Fibre Connectivity (FICON) on a single fabric.

## FEATURES

### Lower TCO with SAN Consolidation

The HPE C-series SN8700C Director Switch lets you easily consolidate data assets into fewer, larger, and more manageable SANs to reduce your hardware footprint and associated Capital Expenditures (CAPEX) and Operating Expenses (OPEX).

It provides up to 24 terabits per second (Tb/s) of FC system bandwidth and 768 (16 slots) or 384 (8 slots) or 192 (4 slots) 16/32/64 Gb/s in a single chassis.

Existing 16/32 Gbps customers can transparently move to 32/64 Gbps speeds without the need for a major equipment upgrade as the 48-port 32 Gbps FC Switching module or 64 Gbps FC Switch module (when available) can easily be inserted into existing HPE C-series SN8700C Directors.

It provides line-rate, nonblocking and predictable performance for all traffic conditions for every port up to the future 64 Gbps speed in the chassis.

It offers VSAN technology, access control lists (ACLs) for hardware-based intelligent frame processing, and fabric-wide quality of service (QoS) enable migration from SAN islands to enterprise wide storage networks.

### High Availability

The HPE C-series SN8700C Director Switch offers fully redundant components, including fabric cards, supervisors, and power supplies.

It provides grid redundancy on the power supply and 1+1 redundant supervisors.

With the HPE C-series SN8700C Director Switch, users can add additional Fabric-3 modules to enable N+1 fabric redundancy with no loss of performance.

The port-channel capability allows you aggregate up to 16 physical links into one logical bundle. The bundle can consist of any speed-matched ports in the chassis, helping ensure that the bundle can remain active in the event of a port or module failure.

It provides outstanding high availability, helping ensure that solutions exceed the maximum uptime requirements of today's most-demanding environments.

### Easy Manageability

The HPE C-series SN8700C Director Switch supports enhanced diagnostic features such as inter-switch link (ISL) and host-bus-adapter (HBA) diagnostics, read diagnostic parameters, link cable beacon, and advanced reliability features such as forward error correction (FEC) with HBA ports.



Cisco Data Center Network Manager Essentials Edition software, included with the switch, provides a centralized management tool with task-based wizards that simplifies management of switches and fabrics. Additional advanced features are available with the DCNM licensed version, sold separately.

Starting NX-OS 9.2(1), DCNM is renamed as Cisco Nexus Dashboard Fabric Controller (NDFC).

Cisco SAN Insights delivers deep visibility into I/O traffic between the compute and the storage infrastructure. This information is in addition to the already-available visibility obtained from individual ports, switches, servers, virtual machines, and storage arrays.

### **Fully Integrated SAN Analytics (HPE C-series SAN Insights or HPE C-series Premier license)**

The HPE C-series SN8700C Director Switch offers state-of-the-art SAN analytics and telemetry capabilities that have been built into this next-generation hardware platform.

It inspects I/O flows to bring out a unified view of the infrastructure irrespective of the architecture or vendor of storage arrays, servers, or operating systems.

The telemetry data extracted from the inspection of the frame headers are calculated on board (within the director module) and, using an industry-leading open format, can be streamed to any analytics-visualization platform.

SAN Analytics can be integrated with and visualized by using the advanced features of HPE's Data Center Network Manager.



## Technical specifications

## HPE SN8700C 16-slot Director Fabric-3 Module

|                                    |  |
|------------------------------------|--|
| <b>Product Number</b>              | R7L01A   |
| <b>Port speed</b>                  | 16/32/64 Gb/s Fibre Channel  |
| <b>Aggregate switch bandwidth</b>  | 3.5 Tb/s, maximum  |
| <b>Encryption capability</b>       | AES 256-bit  |
| <b>Protocol supported</b>          | FC   |
| <b>Availability features</b>       | Equipped with hot swappable redundant 2 SUP-4 modules, six hot swappable redundant Fabric-3 modules (16-slots), three hot swappable redundant Fabric-3 modules ( 8-slot/4-slots), eight 3000W power supplies (16 slots) or six 3000W power supplies (8 slots) or four 3000W power supplies (4 slots) |
| <b>Form factor</b>                 | 26U for HPE SN8700C 16-slot Director, 14U for HPE SN8700C 8-slot Director, 9U for HPE SN8700C 4-slot Director  |
| <b>Upgradability</b>               | Base units include zero port modules. Ports can be added in 48 port increments, depending on protocol and line speeds required.  |
| <b>Software (required)</b>         | NX-OS Software Release 6.2.1 or later;<br>NX-OS Software Release 8.4.1 or later for Supervisor-4/Fabric-3 support;<br>NX-OS 9.2(2) is required for Advantage and Premier licenses  |
| <b>Software (optional)</b>         | Port upgrade license, Enterprise Package license, Cisco Data Center Network Manager (DCNM) license, SAN Insights (1/3/5 yrs), Advantage license (1/3/5 yrs), Premier license (1/3/5 yrs)   |
| <b>Product Dimensions (metric)</b> | 9RU : 39.62 x 43.9 x 81.3 cm;<br>14RU: 61.9 x 43.9 x 86.4 cm;<br>26RU: 114.9 x 43.9 x 88.9 cm  |
| <b>Weight</b>                      | SN8700C 4-slot Chassis only: 65.8 kg;<br>SN8700C 8-slot Chassis only: 84.2 kg;<br>SN8700C 16-slot Chassis only: 136 kg   |



For additional technical information, available models and options, please reference the [QuickSpecs](#)

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[HPE Pointnext Complete Care](#) is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment, and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts.

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- Integrate and migrate
- Operate and improve
- Financial Services
- Greenlake Management Services
- Retire and sanitize
- IT Training and personal development

### Other related services

[HPE Education Services](#) delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation. Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

**Defective Media Retention** is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

## HPE GREENLAKE

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

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 quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

Image may differ from the actual product  
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