

Brocade 16Gb Fibre Channel SAN Switch Module for HPE Synergy Quick Start Instructions

Overview

Read these instructions to install the Brocade 16Gb Fibre Channel SAN Switch Module for HPE Synergy (Brocade 16Gb FC Switch Module) frames (enclosures).

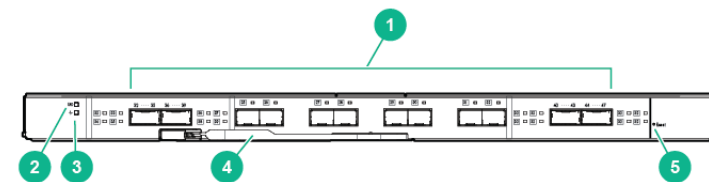
NOTE: The Brocade 16Gb FC Switch Module refers to Brocade Fibre Channel switch modules compatible with the HPE Synergy Frame only.

Kit contents

The Brocade 16Gb FC Switch Module kit contains:

- Brocade 16Gb Fibre Channel SAN Switch Module for HPE Synergy quick start instructions
- One of the following switch models:
 - Brocade 16Gb/12 Fibre Channel SAN Switch Module for HPE Synergy
 - Brocade 16Gb/24 Fibre Channel SAN Switch Module for HPE Synergy
 - Brocade 16Gb/24 PowerPack+ Fibre Channel SAN Switch Module for HPE Synergy
- HPE Read Me First document
- HPE End User License Agreement letter
- China ROHS substance table

Figure 1 Brocade 16Gb FC Switch Module



- | | |
|-----------------------|------------------------|
| 1. Midplane connector | 2. UID LED |
| 3. Health LED | 4. Installation handle |
| 5. Reset button | |

Additional information

For more information on the association between the compute module mezzanine bays and the frame

interconnect bays, see the Brocade 16Gb Fibre Channel SAN Switch Module for HPE Synergy user guide on the website <http://www.hpe.com/support/16GbFCSynergySwitch/UserGuide>.

For example, where you install the mezzanine card determines where you need to install the Brocade 16Gb FC Switch Module.

For additional component information on other interconnect modules, visit the following websites:
<http://www.hpe.com/info/bladesystem/interconnects>
<http://www.hpe.com/info/bladesystem/documentation>

Brocade 16Gb FC Switch Module connection identification

Figure 2 (page 1) shows the Brocade 16Gb FC Switch Module external ports.

Figure 2 External ports



1. Port group A (ports 32 through 39)
2. Port Group B (ports 25 through 31 and 0)
3. Port group C (port 40 through 47)

Install the Brocade 16Gb FC Switch Module

For help identifying your specific frame setup and available connections, see the HPE Synergy 12000 frame setup and install guide available on the website at <http://www.hpe.com/info/bladesystem/documentation>.

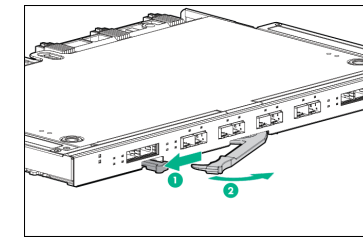
1. Locate the appropriate interconnect bay in the frame.

CAUTION: Properly ground yourself before handling the switch.

NOTE: Populate all frame interconnect bays with an interconnect module or one of the blank panels provided.

2. Press the latch to release the Switch handle.

Figure 3 Releasing the installation handle

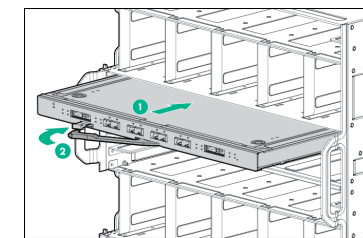


1. Latch
2. Switch Handle

NOTE: The Brocade 16Gb FC Switch Module is a hot-pluggable device. The frame power may be on or off during installation.

3. Align the Brocade 16Gb FC Switch Module with the appropriate interconnect bay according to your frame's specific configuration. Push firmly into the interconnect bay.

Figure 4 Installing the Brocade 16Gb FC Switch Module into an interconnect bay



1. Insert the switch module
2. Lock the switch handle
4. Press the switch handle into the latch to lock the Switch in place.

NOTE: For proper cooling and EMI emission control, all panels and doors should be in place and securely fastened while the unit is in operation.

Verify configuration

HPE OneView is the virtual appliance that monitors and manages the devices contained within the frame. HPE OneView provides a single point from which you can perform basic management tasks on switches or compute modules installed in the frame and is the interface to the HPE Synergy Frame Link Module.



- ❗ **IMPORTANT:** Hewlett Packard Enterprise recommends reading the appropriate HPE Synergy 12000 frame setup and install guide and the HPE OneView user guide for HPE Synergy. Reading these guides in sequence promotes an overall understanding of your Synergy Frame.

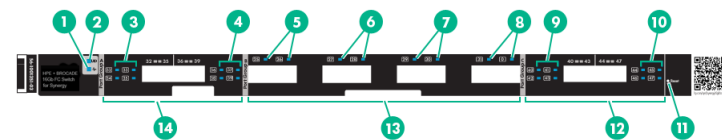
Once the switch is installed in the interconnect bay, the HPE Synergy Frame Link Module verifies that the switch type matches the mezzanine cards present on the compute modules. If there is no mismatch, the HPE Synergy Frame Link Module powers up the switch.

If the switch does not power up, check the frame and switch status using the HPE OneView web interface. See the HPE OneView user guide for HPE Synergy at <http://www.hpe.com/info/oneview/docs> for more information and troubleshooting tips.

Check LEDs

Locate LEDs. Check the LED indicators in [Figure 5 \(page 2\)](#).

Figure 5 Identifying LEDs



- | | |
|------------------------------|-------------------------------|
| 1. Health LED | 2. UID LED |
| 3. QSFP Ports 32–35 LED | 4. QSFP Ports 36–39 LED |
| 5. SFP Ports 25 and 26 LED | 6. SFP Ports 27 and 28 LED |
| 7. SFP Ports 29 and 30 LED | 8. SFP Ports 31 and 0 LED |
| 9. QSFP Ports 40–43 LED | 10. QSFP Ports 44–47 LED |
| 11. Reset button | 12. Port Group C (QSFP Ports) |
| 13. Port Group B (SFP Ports) | 14. Port Group A (QSFP Ports) |

Set the switch Ethernet IP address

- Verify the frame is powered on.
- Verify the switch is installed.
- Choose one of the following methods to set the Ethernet IP address:
 - Using enclosure address pool
 - Using External DHCP
 - Setting the IP address manually

Using enclosure address pool

- Open a web browser and connect to the HPE OneView.
- Select **Address Pool** while defining an Enclosure Group.
- Navigate to the Interconnects screen and select the desired interconnect.
- Navigate to **General** section of the interconnect screen and document the assigned address.
- Verify the IP address using a Telnet or ssh login to the switch.

NOTE: For additional information on all enclosure IP addressing methods supported, see the HPE OneView user guide for HPE Synergy.

Using external DHCP

- Connect to the HPE OneView using a web browser.
- Navigate to the Interconnects screen and select the desired interconnect.
- Navigate to **General** section of the interconnect screen and document the assigned address.
- Verify the IP address using a Telnet or ssh login to the switch.

Setting the IP address manually

- If the switch IP address is unknown, log in to the switch using the internal serial connection:
 - Login to OneView via Telnet or SSH.
 - Enter `console-view`
- Use `show interconnect list` to view the frames and interconnects available and then the `connect interconnect <enclosure name> <bay number>` (documented in the HPE OneView user guide for HPE Synergy) to connect to the switch bay.
- Login to the switch using the administrative account `admin`.
- Enter the password. The default password is `password`.

If you have not changed the system passwords from the default, you are prompted to change them. Enter the new system passwords, or press **Ctrl+c** to skip the password prompts.

- Apply a static IP address and disable DHCP using the `ipaddrset` as shown in the example.

Example 1 Example login output:

```
login as: Administrator
This management appliance is a company owned asset and
provided for the exclusive use
of authorized personnel. Unauthorized use or abuse of
this system may lead to corrective
action including termination, civil and/or criminal
penalties.
Administrator@<systemname>'s password:
Last login: Mon Jul 13 16:31:46 2015 from <systemname>
Initializing...
main-view> console-view
console-view> show interconnect list
Enclosure Bay Console Indices Model
Serial Number
-----
00HPMPBE77 1 1 Brocade 16Gb/24 FC Switch
Module BA0448K001
00HPMPBE77 2 1 Brocade 16Gb/24 FC Switch
Module BA0448K002
00HPMPBE77 3 1 HPE Synergy 40Gb F8 Switch
Module PTSUMBE000
00HPMPBE77 4 1 Brocade 16Gb/24 FC Switch
Module BA0450K001
00HPMPBE77 5 1 Brocade 16Gb/24 FC Switch
Module BA0450K002
00HPMPBE77 6 - [Absent]
console-view> connect interconnect 00HPMPBE77 1
Connecting to interconnect...
To return to the CLI, enter <Ctrl>_. (Control + Shift
+ Underscore followed by a period (.))
```

- Verify the IP address.

Firmware update

Hewlett Packard Enterprise recommends running the latest firmware release. For information on the latest supported and minimum required versions of firmware, see the B-series FC switch connectivity stream document at www.hpe.com/storage/spock.

To access the latest Fabric OS firmware, configuration files, and MIB files, see the HPE Support Center website:

- Enter **Brocade 16Gb SAN Switch for HPE Synergy** at the prompt.
- Select the correct switch model from the search results.
- Select **Get drivers, software and firmware**, click **Firmware** under **OS Independent Downloads**.
- To read the Brocade Release Notes, click the **Manuals** link under the **Knowledge Base** tab.
- To read the HPE Release Notes, click the **Release Notes** tab in the firmware download page.
- To verify the firmware download is complete, see the Fabric OS administrator guide in the Manuals section.

Configure the Brocade 16Gb FC Switch Module

Set the Switch parameters using the following management tools:

- Command Line Interface (CLI)
- Advanced Web Tools Graphical User Interface (GUI)
- HPE Network Advisor 12.4.2 or later

For detailed procedures, see the Brocade 16Gb Fibre Channel SAN Switch Module for HPE Synergy user guide on the Website at <http://www.hpe.com/support/16GbFCSynergySwitch/UserGuide>

Related documentation

The most current documentation for interconnects and other HPE Synergy components is available at the following HPE website: <http://www.hpe.com/support/16GbSynergySwitch/docs>

For information on HPE Storage Area Network (SAN) configuration guidelines, see the HPE SAN Design reference guide on the website: www.hpe.com/support/SAN/docs

HPE Synergy frame related documentation

HPE Synergy frame documentation, including white papers and best practices documents, are available at:

<http://www.hpe.com/info/bladesystem/documentation>

Product updates

Hewlett Packard Enterprise recommends that you sign up online using the Subscriber's choice website: <http://www.hpe.com/info/e-updates>

Subscribing to this service provides you with e-mail updates on the latest product enhancements, newest versions of drivers, and firmware documentation updates as well as instant access to numerous other product resources.