



# HPE SYNERGY 4-PORT FRAME LINK MODULE (876852-B21)

## Synergy Frame Options



### WHAT'S NEW

- Hardware Root of Trust prevents tampering by detecting and validating that the correct firmware is in use on the HPE 4-port Frame Link Module.
- Secure Start maintains secure firmware updates and attack resilience by validating any new firmware on the HPE 4-port Frame Link Module from the previous firmware before switching the boot path.

### OVERVIEW

Do your datacenter systems provide continuous uptime with security – while allowing for future growth?

HPE Synergy Frame Link Modules provide basic management functions for HPE Synergy Frames like auto-discovery of resources and health-status monitoring to keep your systems up and running. Security is enhanced by separating the data network from the management network and by a variety of capabilities like Hardware Root of Trust, Secure Start, and Trusted Platform Module (TPM) file encryption. HPE Synergy

- File Encryption uses the Trusted Platform Module (TPM) on the HPE 4-port Frame Link Module for robust device security using validated encryption keys.
- HPE 4-port Frame Link Modules provide flexibility for long-distance connections (up to tens of kilometers) to scattered frames and to remote subnets of a data center.

Frame Link Modules also link multiple frames together into a management ring to scale your single management environment for future growth (up to 21 frames).

## FEATURES

### **Control and Manage your Synergy Frames for Continuous Uptime**

Collects asset and inventory information of all components installed in a HPE Synergy Frame.

Auto-discovers all resources in all linked HPE Synergy Frames, and reports this information into HPE OneView in order to automatically bring these resources under monitoring.

Controls and monitors the thermal and power infrastructure resources in an HPE Synergy Frame.

Reports the health status for each component installed in a HPE Synergy Frame. Hosts the HPE Synergy Console user interface.

### **Extend your Connectivity within a Single Management Domain**

Management network connections, which are separate from the data network, operate at 1 Gbps or 10 Gbps for dedicated management control.

HPE Synergy Frame Link Modules link multiple frames together at 10 Gbps into a management ring within a single management domain.

Frame link modules allow you to easily grow your environment from a single frame up to 21 frames within the same management domain.

HPE Synergy 4-port Frame Link Modules provide flexibility for long-distance connections (up to tens of kilometers) to scattered frames and to remote subnets of a datacenter.

### **Maintain the Security of your HPE Synergy Frames**

HPE Synergy Frame Link Modules separate the data network from the management network to resist Denial of Service (DoS) attacks.

Hardware Root of Trust in HPE Synergy 4-port Frame Link Modules prevent tampering by detecting and validating that the correct firmware is in use.

Secure Start maintains secure firmware updates and attack resilience by validating any new firmware on the HPE 4-port Frame Link Module from the previous firmware before switching the boot path.

File Encryption uses the Trusted Platform Module (TPM) in the HPE Synergy 4-port Frame Link Module for robust device security using validated encryption keys.

HPE Synergy Frame Link Modules also provide other security capabilities like secure protocols and algorithms (CNSA Suite B, FIPS 140-2 Level 1, PCI-DSS compliance, GDPR), audit logs, authenticated updates, certificate management, scope based access control, and secure erase of user data.



**Technical specifications****HPE Synergy 4-port Frame Link Module**

<b>Product Number</b>	876852-B21
<b>BladeSystem supported</b>	Synergy 12000 Frame
<b>Management features</b>	One Ethernet LINK port @ 10Gbps, One Ethernet MANAGEMENT port @ 1/10 Gbps, Two Appliance ports @ 10Gbps, One USB 2.0 port
<b>Power availability</b>	USB type-C connector is current-limited to 3A at 5V.
<b>Product Dimensions (metric)</b>	Height: 20.8 mm Width: 82.55 mm Length: 286.22 mm
<b>Weight</b>	0.63 kg
<b>Warranty</b>	3/3/3 warranty covers 3 -year parts, 3-year labor, and 3-year onsite service.



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

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- Retire and sanitize
- IT Training and personal development

### Other related services

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

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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.

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