

# HPE Synergy 4-port Frame Link Module (876852-B21)

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## 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.
- 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.

## 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 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</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](#)

## HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

### Consulting services

Experts can help you map out your path to hybrid cloud and optimize your operations.

### Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

### Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

- HPE Complete Care Service: a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.
- HPE Tech Care Service: the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

### Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

### HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.

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

[HPE GreenLake edge-to-cloud platform](#) is HPE's market-leading as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model, on premises, fully managed in a pay per use model.

If you are looking for more services, like **IT financing solutions**, please explore them [here](#).

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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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