

### Overview

## HPE Synergy 4-port Frame Link Module (FLM)

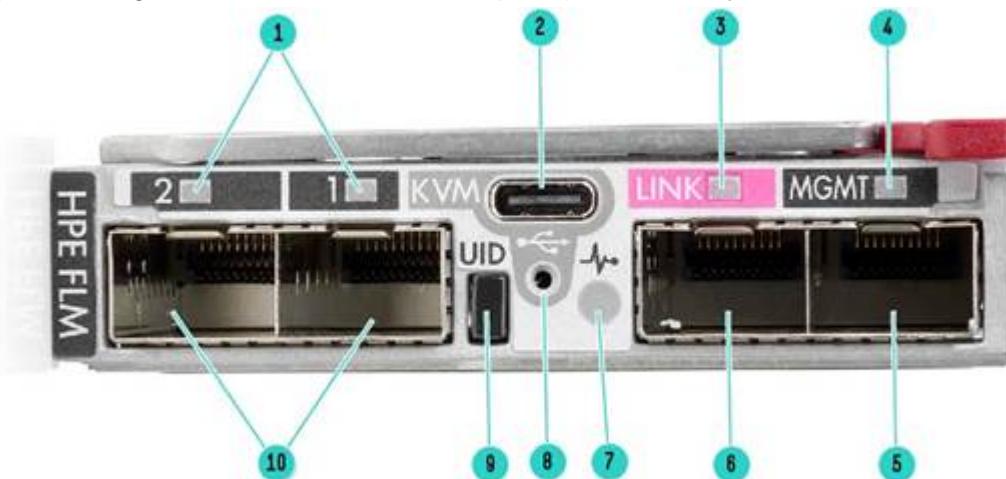
The HPE Synergy 4-port Frame Link Module (FLM) is a 'frame manager' designed for Composable Infrastructure. The FLM efficiently manages the operations of a Synergy Frame in conjunction with HPE Composer, which is powered by HPE OneView.

Key functions of the HPE Synergy Frame Link Module include:

- **Scaling the environment** by linking Synergy Frames together in a management ring (single management domain),
- **Separation of the data & management networks** for management performance and resilience against Denial of Service (DoS) attacks,
- **Auto-discovery of resources** by collecting asset and inventory info of components in linked frames,
- **Control and monitoring** of the thermal and power infrastructure resources in an HPE Synergy Frame,
- **Provides out-of-band management interface to HPE OneView** to configure and manage interconnect modules.
- **Reporting the health status** for each component installed in a frame, and
- **Hosting** the HPE Synergy Console user interface.

The HPE Synergy 4-port FLM provides enhanced security in Synergy systems by implementing:

- **Secure Start** to validate the firmware to prevent tampering,
- **Hardware Root of Trust** tied to the FLM CPU for further firmware validation, and
- **File Encryption** using Trusted Platform Module (TPM) functionality.



**Figure 1: HPE Synergy 4-port Frame Link Module (FLM)**

1. Appliance port connectivity LEDs	6. LINK port [SFP+] <sup>4</sup>
2. USB-C (KVM connection) <sup>1</sup>	7. Health LED
3. LINK port activity LED	8. USB adapter thumb screw connection
4. MGMT port activity LED	9. UID LED button
5. MGMT port [SFP+] <sup>5, 6</sup>	10. Appliance ports [SFP+] <sup>2, 3</sup>

### Overview

#### Notes:

- <sup>1</sup>Support for USB-C storage devices at the USB 2.0 level.
- <sup>2</sup>Provides a direct network connection to an appliance in bay 2. Reserved for future use.
- <sup>3</sup>Provides a direct network connection to an appliance in bay 1. Reserved for future use.
- <sup>4</sup>Use 10GbE transceivers and cables for LINK port connections.
- <sup>5</sup>10GbE or 1GbE based on the cable or transceiver used.
- <sup>6</sup>The transceiver or cable used must match the port speed of the switch used for management network connectivity.
- HPE Synergy 4-Port FLMs require supported SFP+ DAC cables or SFP+ transceivers for cabling.

### What's New

The HPE Synergy Frame Link Module (FLM) is a 'frame manager' designed for Composable Infrastructure. The FLM efficiently manages the operations of a Synergy Frame in conjunction with HPE Composer, which is powered by HPE OneView.

HPE Synergy 4-port FLM is a new product version which implements enhancements for Synergy users. Enhanced security for Synergy systems is implemented in the HPE Synergy 4-port FLM:

- **Secure Start** to validate the firmware to prevent tampering,
- **Hardware Root of Trust** tied to the FLM CPU for further firmware validation, and
- **File Encryption** using Trusted Platform Module (TPM) functionality.

Additional capabilities in the HPE Synergy 4-port Frame Link Module (FLM) include:

- SFP+ ports to enable optical connections for reaching distant frames or remote subnets in a datacenter,
- Two additional direct-to-the-appliance bay ports which are reserved for future use, and
- USB-C connector (USB 2.0) for DisplayPort connectivity via a dongle.

**Notes:** HPE Synergy FLMs (both 2-port and 4-port versions) are compatible with existing applications and workloads.

### Standard Features

### Product Features

#### Performance

- Management (MGMT) uplink connections can operate at 10 GbE to support multiple users or administrators and to provide faster downloading of virtual media for firmware/software updates.
- Management (MGMT) port connections on the FLM are able to auto-negotiate down to 1 GbE to mate with ToR switches.
- Management rings connect multiple Synergy Frames using 10 GbE (LINK) connections
- HPE Synergy 4-port Frame Link Modules have SFP+ ports which enable connections to distant frames and remote subnets.

#### Management

- HPE Synergy FLMs are 'frame managers' which operate under HPE Composer (powered by HPE OneView) management control.
- An out-of-band management interface to HPE OneView is provided by HPE Synergy FLMs to configure and manage interconnect modules.
- User Interface for the Synergy FLM includes USB-C (supported to the USB 2.0 level), Health LED, User ID (UID), and DisplayPort (via USB Adapter cable).
- Firmware for managing the HPE Synergy Frame Link Module is included in every HPE Synergy Custom SPP release, as part of HPE Synergy Software Releases.
- HPE Synergy Software Releases provide users with tested sets of firmware, drivers, and related updates to keep systems up-and-running as stable operating environments. For more information, see [HPE Synergy Software Releases - Overview](#).

#### Security

All Synergy Frame Link Modules operate in FIPS (Federal Information Processing Standard) security mode. If HPE Synergy Composer (powered by HPE OneView) is put into CNSA (Commercial National Security Algorithm) mode, then HPE Composer will put the FLM into CNSA mode also.

Security enhancements which are unique to the HPE Synergy 4-Port Frame Link Module include:

- Management data stored on the frame link module is encrypted by default. The encryption is rooted in the integrated Trusted Platform Module (TPM) on the hardware device,
- Hardware Root of Trust (related to NIST SP800-193) which ensures that only firmware signed by Hewlett Packard Enterprise can be used to boot the frame link module,
- Secure Start (related to NIST SP800-193) which provides secure firmware updates,
- Firmware Resiliency prevents modification of the current running firmware image which increases reliability and by ensuring a good firmware image is always available, and
- Hardware-enforced write protection protects the frame link module from unauthorized changes.

Security features which are common to all HPE Synergy Frame Link Modules include:

- Separation of the production ('data') network from the management (or 'control') network, which protects against Denial of Service (DoS) attacks,
- Audit logging,
- Verification of certificates for Transport Layer Security (TLS),
- Secure protocols and certifications such as:
  - FIPS (Federal Information Processing Standard) 140-2 Level 1,
  - PCI-DSS compliance,
  - Commercial National Security Algorithm (CNSA) Suite B, and
  - General Data Protection Regulation (GDPR),
- Verified boot and Authenticated updates,
- Centralized platform security policies with Certificate management,

### Standard Features

- No clear text passwords,
- Scope based access control (SBAC), and
- Secure out-of-the-box experience with Secure Erase of user data.

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### Service and Support

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- A complete coverage approach -- edge to cloud
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HPE Tech Care Service is the operational support service experience for HPE products. The service goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Tech Care Service delivers a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Tech Care Service is available in three response levels. Basic, which provides 9x5 business hour availability and a 2-hour response time. Essential which provides a 15-minute response time 24x7 for most enterprise level customers, and Critical which includes a 6-hour repair commitment where available and outage management response for severity 1 incidents.

<https://www.hpe.com/services/techcare>

### Service and Support

#### HPE Lifecycle Services

HPE Lifecycle Services provide a variety of options to help maintain your HPE systems and solutions at all stages of the product lifecycle. A few popular examples include:

- Lifecycle Install and Startup Services: Various levels for physical installation and power on, remote access setup, installation and startup, and enhanced installation services with the operating system.
- HPE Firmware Update Analysis Service: Recommendations for firmware revision levels for selected HPE products, taking into account the relevant revision dependencies within your IT environment.
- HPE Firmware Update Implementation Service: Implementation of firmware updates for selected HPE server, storage, and solution products, taking into account the relevant revision dependencies within your IT environment.
- Implementation assistance services: Highly trained technical service specialists to assist you with a variety of activities, ranging from design, implementation, and platform deployment to consolidation, migration, project management, and onsite technical forums.
- HPE Service Credits: Access to prepaid services for flexibility to choose from a variety of specialized service activities, including assessments, performance maintenance reviews, firmware management, professional services, and operational best practices.

**Notes:** To review the list of Lifecycle Services available for your product go to:

<https://www.hpe.com/services/lifecycle>

For a list of the most frequently purchased services using service credits, see the [HPE Service Credits Menu](#)

#### Other Related Services from HPE Services:

##### HPE Education Services

Training and certification designed for IT and business professionals across all industries. Broad catalogue of course offerings to expand skills and proficiencies in topics ranging from cloud and cybersecurity to AI and DevOps. 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.

<https://www.hpe.com/services/training>

##### Defective Media Retention

An option available with HPE Complete Care Service and HPE Tech Care Service and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and services options.

##### Parts and Materials

HPE will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

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.

##### How to Purchase Services

Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
- Customers purchasing from a commercial reseller can find services at <https://ssc.hpe.com/portal/site/ssc/>

### Service and Support

#### AI Powered and Digitally Enabled Support Experience

Achieve faster time to resolution with access to product-specific resources and expertise through a digital and data driven customer experience

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- Scale quickly, meet unpredictable demand
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For more information

<http://www.hpe.com/services>

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### Configuration Information

#### Models

##### Notes:

– **HIGHLY RECOMMENDED:** Add a second HPE Synergy FLM into each Synergy Frame for redundancy.

– **CAUTION:** Both FLM units of a redundant pair in a Synergy Frame must be of the same generation.

HPE Synergy 4-port Frame Link Module 876852-B21

**Notes:** This Synergy Frame Link Module has 4 ports (LINK port, MGMT port, two Appliance ports).

HPE Synergy 4-port Frame Link Module USB Adapter P06458-B21

**Notes:** USB Adapter ('dongle') is required for DisplayPort access to the rear of the HPE Synergy Frame (USB-C to DisplayPort).

#### Compatibility

HPE Synergy 4-port Frame Link Module supports the following hardware.

#### HPE Synergy Frames

HPE Synergy 12000 Frame

#### HPE Synergy Interconnects

- HPE Virtual Connect SE 100GB F32 Module for HPE Synergy
- HPE Virtual Connect SE 40GB F8 Module for HPE Synergy
- HPE Synergy 40Gb F8 Switch Module

#### HPE Cables and Transceivers

- See the 'Related Options' section of this document

##### Notes:

– **CAUTION:** Solution integrity when using distant system connections must be verified -- including limiting communication latencies in the system to <5 milliseconds (one way) in the solution.

– **CAUTION:** Cable type and transceivers determine the distance limit of connections.

- DAC cable lengths @ 10Gbps = 15 meters (max)
- AOC cable lengths using SR transceivers = 300m (max)
- Fibre cable lengths using SR transceivers = 300m (max)
- Fibre cable lengths using LR transceivers = 10km (max)
- Fibre cable lengths using ER transceivers = 40km (max)

### Configuration Information

#### Supported Configurations



**Figure 2: HPE Synergy 12000 Frame - Rear View  
(Frame Link Modules shown partially extended)**

1. Frame Link Module #1
2. Frame Link Module #2

HPE Synergy Frame Link Modules install into one of two frame link module bays in the rear of the frame.

#### Notes:

- **HIGHLY RECOMMENDED:** Add a second Synergy FLM be added into each Synergy Frame for redundancy.
- **CAUTION:** Both FLM units of a redundant pair in a Synergy Frame must be of the same generation
- **CAUTION:** Use caution when installing a Synergy FLM into the Synergy Frame to avoid damage to the connector. Installing a Synergy FLM with a damaged connector can result in damage to the Synergy Frame midplane.

### Related Options

#### DisplayPort USB Adapter

##### DisplayPort connection to rear of HPE Synergy 4-port Frame Link Module

HPE Synergy 4-port Frame Link Module USB Adapter

P06458-B21

**Notes:** USB Adapter ('dongle') is required for DisplayPort access to the rear of the HPE Synergy Frame (USB-C to DisplayPort).

#### Copper Cables (DAC)

**DAC Cables connect SFP+ ports using copper cable with built-in transceivers.**

##### Notes:

- For use between Synergy 4-port FLMs, and for connecting management uplinks to other SFP+ network connections.
- Direct Attach Cables (DAC) use copper cables with built-in transceivers on each end.
- **CAUTION:** Cable type determines the distance limit of connections.
- Active DAC cables @ 10Gbps = 15 meters (max)
- Passive DAC cables = ~5 meters

HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 3m Direct Attach Copper Cable

487655-B21

HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 5m Direct Attach Copper Cable

537963-B21

HPE Networking X240 10G SFP+ SFP+ 0.65m DAC Cable

JD095C

HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable

JD096C

HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable

JD097C

HPE Networking X240 10G SFP+ SFP+ 5m DAC Cable

JG081C

HPE Networking X240 10G SFP+ 7m DAC Cable

JC784C

#### Active Optical Cables (AOC)

**AOC Cables connect SFP+ ports using fibre cables with built-in transceivers.**

##### Notes:

- For use connecting between Synergy 4-port FLMs and for connecting management uplinks to other SFP+ network connections.
- HPE Synergy 4-port FLMs have SFP+ 10Gbps 2-fibre ports.
- **CAUTION:** AOC cable lengths using SR transceivers = 300m (max)

#### Transceivers

**Transceiver use should consider bandwidth, port types, and port counts.**

##### Notes:

### Related Options

- HPE Synergy 4-port FLMs have SFP+ 10Gbps 2-fibre ports.
- **CAUTION:** Solution integrity when using distant system connections must be verified -- including limiting communication latencies in the system to <5 milliseconds (one way) in the solution.
- **CAUTION:** Cable type and transceivers determine the distance limit of connections.
- Extended distances can be implemented using fibre cables with HPE SR, LR, and ER transceivers.
- Fibre cable lengths using SR transceivers = 300m (max)
- Fibre cable lengths using LR transceivers = 10km (max)
- Fibre cable lengths using ER transceivers = 40km (max)

### Transceivers (10 Gbps) for connecting SFP+ ports using AOC fibre cables.

HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver

455883-B21

**Notes:** Typical transceiver for use with single-mode fibre cable (short range).

HPE Networking X130 10G SFP+ LC SR Transceiver

JD092B

HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver

455886-B21

**Notes:** Typical transceiver for use with single-mode fibre cable (long range).

HPE Networking X130 10G SFP+ LC LR Transceiver

JD094B

HPE Networking X130 10G SFP+ LC ER 40km Transceiver

JG234A

### Transceivers (10 Gbps) for connecting SFP+ ports to RJ45 ports using CAT6A cables.

HPE 10GBase-T SFP+ Transceiver

813874-B21

**Notes:**

- Typical 10GbE transceiver for connecting CAT6A cables to SFP+ ports on the HPE Synergy 4-port FLM.
  - 861412-B21 HPE CAT6A 4-foot Cable
  - 861413-B21 HPE CAT6A 10-foot Cable
  - 861414-B21 HPE CAT6A 21-foot Cable

### Transceivers (1 Gbps) for connecting SFP+ ports (for use with MGMT ports only).

HPE BladeSystem c-Class Virtual Connect 1G SFP SX Transceiver

453151-B21

**Notes:** Typical 1Gb transceiver for use with fibre cable (<100m).

HPE BladeSystem CClass Virtual Connect 1G SFP RJ45 Transceiver

453154-B21

**Notes:** Typical 1Gb transceiver for connecting CAT cables to SFP+ ports on the HPE Synergy 4-port FLM.

## Fibre Cables

### Fibre Cables require transceivers to connect SFP+ ports.

**Notes:**

- HPE Synergy 4-port FLMs have SFP+ 10Gbps 2-fibre ports.

### Related Options

- **CAUTION:** Solution integrity when using distant system connections must be verified -- including limiting communication latencies in the system to <5 milliseconds (one way) in the solution.
- **CAUTION:** Cable type and transceivers determine the distance limit of connections.
- Extended distances can be implemented using fibre cables with HPE SR, LR, and ER transceivers.
- Fibre cable lengths using SR transceivers = 300m (max)
- Fibre cable lengths using LR transceivers = 10km (max)
- Fibre cable lengths using ER transceivers = 40km (max)

### OM3 Fibre Cables

HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A

### OM4 Fibre Cables

HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 1m Cable	QK732A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 2m Cable	QK733A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 5m Cable	QK734A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 15m Cable	QK735A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 30m Cable	QK736A
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 50m Cable	QK737A

### HPE Synergy Services

#### Deployment/Installation & Start-up Services

HPE Factory Express Synergy Initial Frame Package 4 Service	HA454A1-300
HPE Factory Express Synergy Add-on Frame Package 4 Service	HA454A1-301
HPE Synergy First Frame Startup Service	U8JM3E
HPE Synergy Additional Frame Startup Service	U8JM4E

### Technical Specifications

<b>HPE Synergy Frame Link Module</b>		
<b>Shipping Dimensions</b>	Length	18.50 in (469.9 mm)
	Width	10.13 in (257.3 mm)
	Height	2.00 in (50.8 mm)
<b>Shipping Weight</b>		2.13 lbs (0.97 kg)
<b>Product Hardware Specifications</b>	<b>Indicators</b>	Health LED
		UID LED
		MGMT & LINK Port Activity LEDs
		Appliance Port Connectivity LEDs
	<b>Environmental Ranges</b>	<b>Temperature Range</b>
		Operating 10°C to 35°C (50° to 95°F)
		Non-Operating -30°C to 60°C (-22°F to 140°F)
		<b>Relative Humidity</b> (non-condensing)
		Operating 10% to 90% relative humidity (Rh), 28°C (82.4°F) maximum wet bulb temperature, non-condensing.
		Shipping 5% to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.
	<b>Notes:</b>	
	– Operating temperature has an altitude derating of 1.8° F (1° C) per 1,000 ft (304.8 m). No direct sunlight allowed. Upper operating limit is 10,000 ft (3,048 m) or 70Kpa/10.1 psia. Upper non-operating limit is 30,000 ft (9,144 m) or 30.3 KPa/4.4 psia.	
	– Storage maximum humidity of 95% is based on a maximum temperature of 113° F (45° C). Altitude maximum for storage is 70 KPa.	
<b>Power Specification</b>	12V @ 4.2A (50 W max)	

### Environmental-friendly Products and Approach

#### End-of-life Management and Recycling

Hewlett Packard Enterprise offers end-of-life Hewlett Packard Enterprise product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to <http://www.hpe.com/info/recycle>. To recycle your product, please go to: <http://www.hpe.com/info/recycle> or contact your nearest Hewlett Packard Enterprise sales office. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

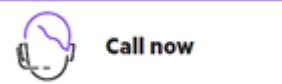
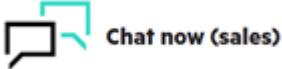
The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site at: <http://www.hpe.com/info/recycle>. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

### Summary of Changes

Date	Version History	Action	Description of Change
19-Feb-2024	Version 6	Changed	Networking product names were updated
04-Dec-2023	Version 5	Changed	Service and Support section was updated
15-Nov-2021	Version 4	Changed	Service and Support Pointnext Tech Care and Complete Care information updated
16-Sep-2019	Version 3	Changed	QuickSpecs was updated.
16-Sep-2019	Version 2	Changed	Configuration Information, Related Options, and Technical Specifications sections were updated.
		Added	SKUs added in Configuration Information and Related Options
03-Sept-2019	Version 1	Created	New QuickSpecs

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