

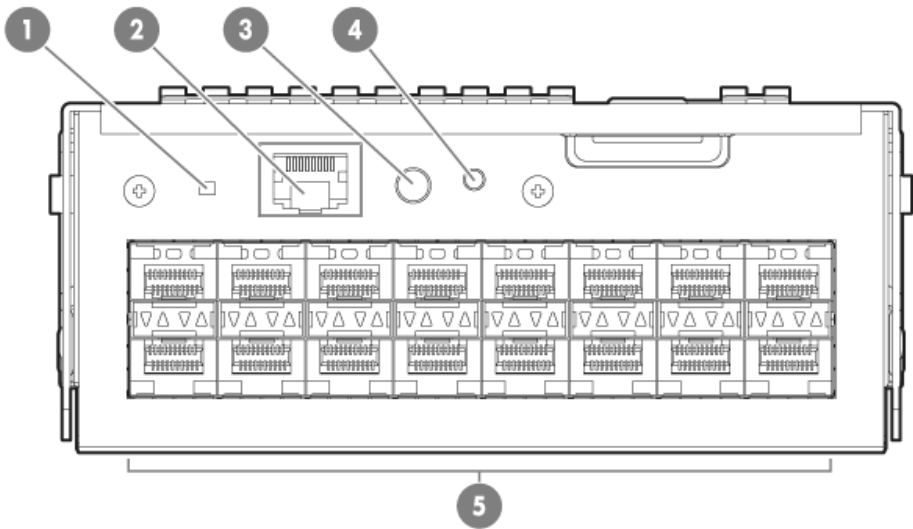
QuickSpecs

HPE Moonshot-16SFP+ Uplink Module

Overview

HPE Moonshot-16SFP+ Uplink Module

The HPE Moonshot system's modular design dramatically simplifies and future-proofs your datacenter for a variety of workloads. The HPE Moonshot-16SFP+ Uplink Module, along with the HPE Moonshot-45XGc Switch Module or HPE Moonshot-180XGc Switch Module, provides the Ethernet networking functionality for the new HPE Moonshot 1500 chassis. Each chassis supports up to two Moonshot-16SFP+ Uplink Modules which can be configured for redundancy or traffic isolation. Each uplink module delivers 160 Gbps of bandwidth to connect the HPE Moonshot system to an external network.



16SFP+ Uplink Module Components

Item	Description	Item	Description
1.	Reset button	4.	Health LED
2.	Serial console port	5.	Sixteen (16) SFP+ ports
3.	UnitID (UID) LED / Button		

Models

HPE Moonshot-16SFP+ Uplink Module Kit	783263-B21
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Standard Features

Standard Features

- SFP+ ports support either 10GbE or 1GbE depending on pluggable module inserted
- Serial port for out-of-band management
- Link connectivity and activity LEDs
- UnitID (UID) LED / Button for serviceability
- Reset button

HPE Interconnect modules

Up to two identical pairs of Switch and Uplink modules are supported in the Moonshot 1500 Chassis. Dual switch modules are required for network redundancy, regardless of cartridge configuration.

Notes:

- Check Compatibility matrix below for supported switch and uplink modules
- For information HPE Moonshot Cartridges and Switch Modules, please see the following:

Cartridge

HPE ProLiant m700p Server Cartridge

<https://h20195.www2.hpe.com/v2/getdocument.aspx?docname=c05174362>

HPE ProLiant m510 Server Cartridge

<https://h20195.www2.hpe.com/v2/GetDocument.aspx?docname=c05069171>

HPE ProLiant m710x Server Cartridge

<https://h20195.www2.hpe.com/v2/GetDocument.aspx?docname=c05069173>

Switch

HPE Moonshot-45Gc Switch Module

<https://h20195.www2.hpe.com/v2/getdocument.aspx?docname=c04773032>

HPE Moonshot-45XGc Switch Module

<https://h20195.www2.hpe.com/v2/GetPDF.aspx/c04384058.pdf>

HPE Moonshot-180XGc Switch Module

<https://h20195.www2.hpe.com/v2/getdocument.aspx?docname=c04923651>

HPE ProLiant Cartridges							
		Uplink					
Switch	Speed	m700p	m710x	m510	Moonshot-6SFP+ Uplink 704646-B21	Moonshot-16SFP+ Uplink 783263-B21	Moonshot-4QSFP+ Uplink 704652-B21
Moonshot 45Gc Switch	1Gb		X	X	X		
Moonshot 45XGc Switch	10Gb		X	X		X	X
Moonshot-180XGc Switch	1Gb	X	X	X		X	X
	10Gb		X	X		X	X



Service and Support

HPE Pointnext - Service and Support

Get the most from your HPE Products. Get the expertise you need at every step of your IT journey with **HPE Pointnext Services**. We help you lower your risks and overall costs using automation and methodologies that have been tested and refined by HPE experts through thousands of deployments globally. HPE Pointnext **Advisory Services** focus on your business outcomes and goals, partnering with you to design your transformation and build a roadmap tuned to your unique challenges. Our **Professional** and **Operational Services** can be leveraged to speed up time-to-production, boost performance and accelerate your business. HPE Pointnext specializes in flawless and on-time implementation, on-budget execution, and creative configurations that get the most out of software and hardware alike.

Consume IT on your terms

HPE GreenLake brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

Managed services to run your IT operations

HPE GreenLake Management Services provides services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.

Recommended Services

HPE Pointnext Tech Care.

HPE Pointnext Tech Care is the new operational service experience for HPE products. Tech Care 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 Pointnext Tech Care has been reimagined from the ground up to support a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Pointnext Tech Care 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>

HPE Pointnext Complete Care

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. HPE Pointnext Complete Care provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

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



Service and Support

Recommended HPE Pointnext operational Services for your HPE product

(4 and 5 year Service offerings are also available)

HPE Technology Services

HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to Hewlett Packard Enterprise to help prevent problems and solve issues faster. Our support technology lets you tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, anywhere, any time.

Protect your business beyond warranty with HPE Pointnext operational Services

HPE Pointnext operational Services enable you to order the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement for the selected support.

Related Services

HPE Moonshot Installation & Startup Service

HPE Installation and Startup Service for the Moonshot System provides for the installation of one system and its associated Moonshot servers and network switches, as well as operating system deployment and basic configuration of OS network parameters to establish network connectivity

HPE Self-Service Spares Service answers the question: What do you do when you need parts? We can set it up so that you get spare parts onsite through our automated self-service spares. You simply go to the part of your data center where the parts live, scan them out, scan in the broken one, and you're done. We maintain your inventory of good spares, so that what you need is ready to go when you need it. And we provide monthly service excellence reports illustrating onsite inventory performance.

Connect your devices to HPE

Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Achieve up to 77%1 reduction in down time, near 100%2 diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7 monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Tech Care Service and HPE Complete Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization.

All of these benefits are already available to you with your server storage and networking products, securely connected to Hewlett Packard Enterprise support.

Defective Media Retention (DMR) and Comprehensive Defective Material Retention

If your business deals with sensitive or legally protected data, you know that it's not a simple matter to return a defective hardware component, but keeping it conflicts with the terms and conditions of many standard warranty agreements. If you don't return the component, you'll be charged for the replacement part.

HPE Tech Care services are available with defective media retention of failed hard drives and comprehensive defective material retention of those other data-retentive components, such as memory, switches, processors and more. This may be purchased as an optional add-on to your HPE Tech Care service purchase. This service is critical for customers who:

- Need to control and secure their classified, proprietary and confidential data.
- Are subject to current data privacy regulations.
- Want a simpler, more cost-effective solution when choosing not to return a malfunctioning disk drive or other data retentive component.

For more information on our data privacy services, see:

<https://www.hpe.com/us/en/services/platform-consulting-services.html>



Service and Support

HPE Support Center

Hewlett Packard Enterprise provides several tools that make it simpler to get help from HPE:

HPE Support Center is personalized online support portal with access to information, tools and experts to support Hewlett Packard Enterprise business products. Submit support cases online, chat with Hewlett Packard Enterprise experts, access support resources or collaborate with peers. Learn more: <https://www.hpe.com/us/en/support.html>

The HPE Support Center Mobile App allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalize IT support anywhere, anytime.

HPE Support Center are available at no additional cost with a Hewlett Packard Enterprise warranty, HPE Pointnext operational or Hewlett Packard Enterprise contractual support agreement.

Notes: HPE Support Center Mobile App is subject to local availability.

For more information

To learn more on HPE Moonshot, please contact your Hewlett Packard Enterprise sales representative

Parts and Materials

Hewlett Packard Enterprise 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 QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.



Related Options

SFP Options

HPE BladeSystem c-Class Virtual Connect 1G SFP SX Transceiver	453151-B21
HPE X120 1G SFP RJ45 T Transceiver	JD089B
HPE BladeSystem CClass Virtual Connect 1G SFP RJ45 Transceiver	453154-B21
HPE X120 1G SFP LC SX Transceiver	JD118B

SFP+ Options

HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver	455883-B21
HPE X130 10G SFP+ LC SR Transceiver	JD092B
HPE X130 10G SFP+ LC LR Transceiver	JD094B
HPE 10GBase-T SFP+ Transceiver	813874-B21

Direct Attach Cables

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 FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable	JD095C
HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
HPE C-series 3M Passive Copper SFP+ Cable	K2Q21A
HPE C-series 5M Passive Copper SFP+ Cable	K2Q22A
HPE B-series SFP+ to SFP+ Active Copper 5.0m Direct Attach Cable	AP820A

NOTES: The transceivers and cables listed above have been qualified and certified to work with this product. Transceiver and DAC cables from any manufacturer will be accepted, but they will not be supported by Hewlett Packard Enterprise.

Serial Console Cable

RJ45 to (F) DB-9 serial console port cable	5188-6699
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Technical Specifications

Product Specifications Hardware

Ports	Sixteen (16) 10 Gb SFP+ uplink ports One (1) RJ-45 Serial Console Port for management		
Indicators/Buttons	Module health, red/amber/green Module locator (UID), blue (LED & push button switch) Port link indicator, green Port activity indicator, green Recessed push button reset switch		
	Physical Characteristics	Length	5.40 in (13.71 cm)
		Width	8.83 in (24.96 cm)
		Height	2.22 in (5.64 cm)
		Weight	0.95 kg (2.09 lbs)
Environmental Ranges	Temperature Range		
	Operating	50° to 95° F (10° to 35° C)	
	Non-operating	-22° to 140° F (-30° to 60° C)	
	Relative Humidity (non-condensing)		
	Operating	10% to 90%	
	Non-operating	5% to 95%	
	Altitude		
Power Consumption	Operating	10,000 ft. (3048 m)	
	Non-operating	30,000 ft. (9144 m)	
	Typical	18W	
	Maximum	24W	

Safety and Compliance

Safety Certifications

- Complies with UL 60950-1, CAN/CSA C22.2 No. 60950-1 and EN 60950-1. UL certified.
- CE Marking
- RoHS 6/6 compliant

Emissions Classifications (EMC)

Class A

Environment-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:

<https://www.hpe.com/us/en/about/environment/product-recycling.html>. To recycle your product, please go to: <https://www.hpe.com/us/en/about/environment/product-recycling.html> 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: <https://www.hpe.com/us/en/about/environment/product-recycling.html>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HPE OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.



Summary of Changes

Date	Version History	Action	Description of Change
15-Nov-2021	Version 10	Changed	Service and Support section was updated
01-Jun-2020	Version 9	Changed	Standard Features section was updated
07-Oct-2019	Version 8	Changed	Overview and Related Options sections were updated. Obsolete SKU was removed
04-Mar-2019	Version 7	Changed	Standard Features, Service and Support and Related Options sections were updated
07-Jan-2019	Version 6	Changed	Overview, Standard Features, Compatibility, Related Options and Technical Specifications sections were updated
26-Oct-2016	Version 5	Changed	Update QuickSpecs for Rebranding
28-Sep-2015	Version 4	Changed	Update the related options section
03-Oct-2014	Version 3	Changed	Changes made throughout the QS
28-Feb-2014	Version 2	New	New QuickSpecs



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