

Overview

HPE BladeSystem c-Class 40G QSFP+ Active Optical Cables



Platform Information

Models

HPE BladeSystem c-Class 40G QSFP+ to QSFP+ 15m Active Optical Cable	720211-B21
HPE BladeSystem c-Class QSFP+ to 4x10G SFP+ 15m Active Optical Cable	721076-B21



Service and Support

HPE Services

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

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

Consulting Services

No matter where you are in your journey to hybrid cloud, experts can help you map out your next steps. From determining what workloads should live where, to handling governance and compliance, to managing costs, our experts can help you optimize your operations.

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

HPE Managed Services

HPE runs your IT operations, providing 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.

[HPE Managed Services | HPE](#)

Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources. Meet service-level targets and business objectives with features designed to drive better business outcomes.

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

HPE Complete Care Service

HPE Complete Care Service is a modular, edge-to-cloud IT environment service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals through a personalized experience. All delivered by an assigned team of HPE Services experts. HPE Complete Care Service 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>

HPE Tech Care Service

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

Sign into the HPE Support Center experience, featuring streamlined self-serve case creation and management capabilities with inline knowledge recommendations. You will also find personalized task alerts and powerful troubleshooting support through an intelligent virtual agent with seamless transition when needed to a live support agent.

<https://support.hpe.com/hpesc/public/home/signin>

Consume IT On Your Terms

HPE GreenLake edge-to-cloud platform 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 edge-to-cloud platform 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

To learn more about HPE Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner. Contact information for a representative in your area can be found at "Contact HPE"

<https://www.hpe.com/us/en/contact-hpe.html>

For more information

www.hpe.com/services



Technical Specifications

HPE BladeSystem c-Class 40G QSFP+ to QSFP+ 7m Active Optical Cable (720205-B21)	Connectivity	Length	22.97 ft. (7 m)
	Physical characteristics	Weight	0.33 lb. (0.15 kg), Fully loaded the cable with a QSFP+ transceiver at each end of the cable
	Environment	Operating temperature	32°F to 158°F (0°C to 70°C)
		Operating relative humidity	0% to 85%, noncondensing
		Non-operating/Storage temperature	-40°F to 185°F (-40°C to 85°C)
		Non-operating/Storage relative humidity	0% to 85%, noncondensing
		Altitude	Up to 10,000 ft. (3 km)
	Electrical characteristics	Notes	1.5 watts maximum per transceiver end
	Notes	Electrical Properties	
		Cable Characteristic Impedance: Non-conductive	
		Crosstalk between pairs: 26dB max	
		Time delay: 1.57 nsec/ft o BER: 10-15 max	
		Physical Properties	
		Cable Diameter: 3 mm	
		Minimum Cable Bend Radius: 25mm	

HPE BladeSystem c-Class 40G QSFP+ to QSFP+ 15m Active Optical Cable (720211-B21)	Connectivity	Length	49.21 ft. (15 m)
	Physical characteristics	Weight	0.57 lb., Fully loaded the cable with a QSFP+ transceiver at each end of the cable
	Environment	Operating temperature	32°F to 158°F (0°C to 70°C)
		Operating relative humidity	0% to 85%, noncondensing
		Non-operating/Storage temperature	-40°F to 185°F (-40°C to 85°C)
		Non-operating/Storage relative humidity	0% to 85%, noncondensing
		Altitude	Up to 10,000 ft. (3 km)
	Electrical characteristics	Notes	1.5 watts maximum per transceiver end
	Notes	Electrical Properties	
		Cable Characteristic Impedance: Non-conductive	
		Crosstalk between pairs: 26dB max	
		Time delay: 1.57 nsec/ft o BER: 10-15 max	
		Physical Properties	
		Cable Diameter: 3 mm	
		Minimum Cable Bend Radius: 25mm	



Technical Specifications

HPE BladeSystem c-Class QSFP+ to 4x10G SFP+ 7m Active Optical Cable (721070-B21)	Connectivity	Length	22.97 ft. (7 m)
	Physical characteristics	Weight	0.56 lb. (0.25 kg), Fully loaded the cable with a QSFP+ transceiver at one end and 4 SFP+ transceivers at the other end of the cable
	Environment	Operating temperature	32°F to 158°F (0°C to 70°C)
		Operating relative humidity	5% to 85%, noncondensing
		Non-operating/Storage temperature	-40°F to 185°F (-40°C to 85°C)
		Non-operating/Storage relative humidity	5% to 85%, noncondensing
		Altitude	Up to 10,000 ft. (3 km)
	Electrical characteristics	Notes	1.5 Watts maximum QSFP+ cable end 0.35 Watts maximum SFP+ Cable end (each)
Notes		Electrical Properties Cable Characteristic Impedance: Non-conductive Crosstalk between pairs: 26dB max Time delay: 1.475 nsec/ft BER: 10E-15 max Physical Properties QSFP+ Cable Diameter: 3.4 mm SFP+ Cable Diameter: 3 mm QSFP+ Minimum Cable Bend Radius: 25 mm SFP+ Minimum Cable Bend Radius: 30mm	
HPE BladeSystem c-Class QSFP+ to 4x10G SFP+ 15m Active Optical Cable (721076-B21)	Connectivity	Length	49.21 ft. (15 m)
	Physical characteristics	Weight	0.74 lb. (0.34 kg), Fully loaded the cable with a QSFP+ transceiver at one end and 4 SFP+ transceivers at the other end of the cable
	Environment	Operating temperature	32°F to 158°F (0°C to 70°C)
		Operating relative humidity	5% to 85%, noncondensing
		Non-operating/Storage temperature	-40°F to 185°F (-40°C to 85°C)
		Non-operating/Storage relative humidity	5% to 85%, noncondensing
		Altitude	Up to 10,000 ft. (3 km)
	Electrical characteristics	Notes	1.5 Watts maximum QSFP+ cable end 0.35 Watts maximum SFP+ Cable end (each)
Notes		Electrical Properties Cable Characteristic Impedance: Non-conductive Crosstalk between pairs: 26dB max Time delay: 1.475 nsec/ft BER: 10E-15 max Physical Properties QSFP+ Cable Diameter: 3.4 mm SFP+ Cable Diameter: 3 mm QSFP+ Minimum Cable Bend Radius: 25 mm SFP+ Minimum Cable Bend Radius: 30mm	

Operating System and Virtualization Support

The Operating Systems supported by this adapter are based on the server OS support. Please refer to the OS Support Matrix at <https://www.hpe.com/us/en/servers/server-operating-systems.html>.



Technical Specifications

Environment-friendly Products and Approach - End-of-life Management and Recycling

Hewlett Packard Enterprise offers end-of-life **product return, trade-in, and recycling programs**, in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE Directive (2012/19/EU) 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**. 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.



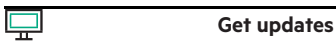
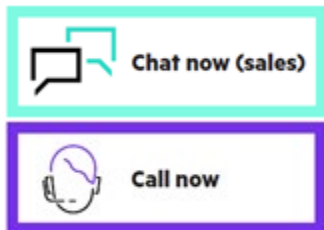
Summary of Changes

Date	Version History	Action	Description of Change
04.Dec-2023	Version 7	Changed	Service and Support section was updated.
15-Nov-2021	Version 6	Changed	Service and Support section was updated.
26-Nov-2018	Version 5	Changed	Technical Specifications were updated
05-Feb-2018	Version 4	Changed	Models section was updated.
26-Oct-2016	Version 3	Changed	Rebranding edition.
09-Feb-2015	Version 2	Added	SKUs added on models section: 721070-B21, 721073-B21, 721076-B21
		Changed	QuickSpecs name changed from "HPE BladeSystem c-Class 40G QSFP+ to QSFP+ Active Optical Cable" to "HPE BladeSystem c-Class 40G QSFP+ Active Optical Cables" Overview, Technical Specification sections were updated
10-Jun-2014	Version 1	New	Initial version



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