

Overview

HPE BladeSystem c-Class 40G QSFP+ to QSFP+ Direct Attach Copper Cable



Platform Information

Models

Recommended

This cable is a recommended option that has been selected by HPE experts to provide the right technology for a range of workloads and market segments offering the best combination of performance, value and availability.

HPE BladeSystem c-Class 40G QSFP+ QSFP+ 3m Direct Attach Copper Splitter Cable 720199-B21

Extended

These cables are part of an extended catalog of products tailored for customers in specific markets or with specific workloads, requiring the utmost in performance or value, but typically have a longer lead-time.

HPE BladeSystem c-Class 40G QSFP+ to QSFP+ 1m Direct Attach Copper Cable 720196-B21

HPE BladeSystem c-Class 40G QSFP+ to QSFP+ 5m Direct Attach Copper Cable 720202-B21

Service and Support

Service and Support **NOTE:** This adapter is covered under HPE Support Services/ Service Contract applied to the HPE ProLiant Server or enclosure. No separate HPE Support Services# need to be purchased.

Most HPE branded options sourced from HPE that are compatible with your product will be covered under your main product support at the same level of coverage, allowing you to upgrade freely. Additional support is required on select workload accelerators, switches, racks and UPS options 12KVA and over. Coverage of the UPS battery is not included under HPE support services; standard warranty terms and conditions apply.

Warranty and Support Services

Warranty and Support Services will extend to include HPE options configured with your server or storage device. The price of support service is not impacted by configuration details. HPE sourced options that are compatible with your product will be covered under your server support at the same level of coverage allowing you to upgrade freely. Installation for HPE options is available as needed. To keep support costs low for everyone, some high value options will require additional support. Additional support is only required on select high value workload accelerators, fibre switches, InfiniBand and UPS options 12KVA and over. Coverage of the UPS battery is not included under TS support services; standard warranty terms and conditions apply.

Protect your business beyond warranty with HPE Support Services

HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to HPE to help prevent problems and solve issues faster. HPE Support Services enable you to choose the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement to the support you need for your IT and business. Protect your product, beyond warranty.

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 quick-specs, 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.

For more information

Visit the Hewlett Packard Enterprise Service and Support [website](#).

Technical Specifications

HP BladeSystem c-Class 40G QSFP+ to QSFP+ 1m Direct Attach Copper Cable (720196-B21)	Connectivity Physical characteristics	Length Weight	3.28 ft. (1 m) 0.29 lb., Fully loaded the cable with a QSFP+ transceiver at each end of the cable
	Environment	Operating temperature Operating relative humidity Non-operating/Storage temperature Non-operating/Storage relative humidity Altitude	32°F to 158°F (0°C to 70°C) 5% to 95%, noncondensing -4°F to 176°F (-20°C to 80°C) 5% to 95%, noncondensing Up to 10,000 ft. (3 km)
	Electrical characteristics Notes	Notes	0.042 watts maximum per transceiver end Electrical Properties <ul style="list-style-type: none"> • Cable Characteristic Impedance: 100 ohms • Crosstalk between pairs: 26dB max • Time delay: 1.35 nsec/ft • BER: 10⁻¹⁵ max Physical Properties <ul style="list-style-type: none"> • Cable Diameter: 0.255" • Minimum Cable Bend Radius: 1.78"
HP BladeSystem c-Class 40G QSFP+ to QSFP+ 3m Direct Attach Copper Cable (720199-B21)	Connectivity Physical characteristics	Length Weight	9.84 ft. (3 m) 0.57 lb., Fully loaded the cable with a QSFP+ transceiver at each end of the cable
	Environment	Operating temperature Operating relative humidity Non-operating/Storage temperature Non-operating/Storage relative humidity Altitude	32°F to 158°F (0°C to 70°C) 5% to 95%, noncondensing -4°F to 176°F (-20°C to 80°C) 5% to 95%, noncondensing Up to 10,000 ft. (3 km)
	Electrical characteristics Notes	Notes	0.042 watts maximum per transceiver end Electrical Properties <ul style="list-style-type: none"> • Cable Characteristic Impedance: 100 ohms • Crosstalk between pairs: 26dB max • Time delay: 1.35 nsec/ft • BER: 10⁻¹⁵ max Physical Properties <ul style="list-style-type: none"> • Cable Diameter: 0.255"

Technical Specifications

- Minimum Cable Bend Radius: 1.78"

HP BladeSystem c-Class 40G QSFP+ to QSFP+ 5m Direct Attach Copper Cable (720202-B21)	Connectivity Physical characteristics	Length Weight	16.4 ft. (5 m) 1.19 lb., Fully loaded the cable with a QSFP+ transceiver at each end of the cable
	Environment	Operating temperature Operating relative humidity Non-operating/Storage temperature Non-operating/Storage relative humidity	32°F to 158°F (0°C to 70°C) 5% to 95%, noncondensing -4°F to 176°F (-20°C to 80°C)
	Electrical characteristics Notes	Altitude Notes	Up to 10,000 ft. (3 km) 0.042 watts maximum per transceiver end
		Electrical Properties	<ul style="list-style-type: none"> • Cable Characteristic Impedance: 100 ohms • Crosstalk between pairs: 26dB max • Time delay: 1.35 nsec/ft • BER: 10⁻¹⁵ max
		Physical Properties	<ul style="list-style-type: none"> • Cable Diameter: 0.35" • Minimum Cable Bend Radius: 2.45"

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>.

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
05-Feb-2018	Version 2	Changed	Models were updated
10-Jun-2014	Version 1	New	Initial version



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