

Overview

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



Models

HP BladeSystem c-Class 40G QSFP+ to QSFP+ 7m Active Optical Cable	720205-B21
HP BladeSystem c-Class 40G QSFP+ to QSFP+ 10m Active Optical Cable	720208-B21
HP BladeSystem c-Class 40G QSFP+ to QSFP+ 15m Active Optical Cable	720211-B21
HP BladeSystem c-Class QSFP+ to 4x10G SFP+ 7m Active Optical Cable	721070-B21
HP BladeSystem c-Class QSFP+ to 4x10G SFP+ 10m Active Optical Cable	721073-B21
HP BladeSystem c-Class QSFP+ to 4x10G SFP+ 15m Active Optical Cable	721076-B21

Technical Specifications

HP BladeSystem c-Class 40G QSFP+ to QSFP+ 7m Active Optical Cable (720205-B21)	Connectivity	Length	22.97 ft. (7 m)
	Physical characteristics	Weight	.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)
	Electrical characteristics	Operating relative humidity	0% to 85%, noncondensing
		Nonoperating/Storage temperature	-40°F to 185°F (-40°C to 85°C)
		Nonoperating/Storage relative humidity	0% to 85%, noncondensing
		Altitude	up to 10,000 ft. (3 km)
	Notes	Notes	1.5 watts maximum per cable end
	Notes	Electrical Properties	<ul style="list-style-type: none"> • Cable Characteristic Impedance: Non-conductive • Crosstalk between pairs: 26dB max • Time delay: 1.57 nsec/ft o BER: 10-15 max
	Services	Physical Properties	<ul style="list-style-type: none"> • Cable Diameter: 3 mm • Minimum Cable Bend Radius: 25 mm
Refer to the Hewlett Packard Enterprise website at: http://www.hp.com/services/bladeSystem for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.			

HP BladeSystem c-Class 40G QSFP+ to QSFP+ 10m Active Optical Cable (720208-B21)	Connectivity	Length	32.82 ft. (10 m)
	Physical characteristics	Weight	.45 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)
	Electrical characteristics	Operating relative humidity	0% to 85%, noncondensing
		Nonoperating/Storage temperature	-40°F to 185°F (-40°C to 85°C)
		Nonoperating/Storage relative humidity	0% to 85%, noncondensing
		Altitude	up to 10,000 ft. (3 km)
	Notes	Notes	1.5 watts maximum per cable end
	Notes	Electrical Properties	<ul style="list-style-type: none"> • Cable Characteristic Impedance: Non-conductive • Crosstalk between pairs: 26dB max • Time delay: 1.53 nsec/ft o BER: 10-15 max
	Services	Physical Properties	<ul style="list-style-type: none"> • Cable Diameter: 3 mm • Minimum Cable Bend Radius: 25 mm
Refer to the Hewlett Packard Enterprise website at: http://www.hp.com/services/bladeSystem for details on the service-level			

Technical Specifications

descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.

HP BladeSystem c-Class 40G QSFP+ to QSFP+ 15m Active Optical Cable (720211-B21)	Connectivity	Length	49.21 ft. (15 m)
	Physical characteristics	Weight	.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
		Nonoperating/Storage temperature	-40°F to 185°F (-40°C to 85°C)
		Nonoperating/Storage relative humidity	0% to 85%, noncondensing
		Altitude	up to 10,000 ft. (3 km)
		Notes	1.5 watts maximum per cable end
	Electrical characteristics	Electrical Properties	
	Notes	<ul style="list-style-type: none"> • Cable Characteristic Impedance: Non-conductive • Crosstalk between pairs: 26dB max • Time delay: 1.53 nsec/ft o BER: 10-15 max 	
	Physical Properties		
	<ul style="list-style-type: none"> • Cable Diameter: 3 mm • Minimum Cable Bend Radius: 25 mm 		
Services	Refer to the Hewlett Packard Enterprise website at: http://www.hp.com/services/bladesystem for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.		

HP 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)
			1.5 Watts maximum QSFP+ cable end 0.35 Watts maximum SFP+ Cable end (each)
	Electrical characteristics	Electrical Properties	
	Notes	<ul style="list-style-type: none"> • Cable Characteristic Impedance: Non-conductive • Crosstalk between pairs: 26dB max • Time delay: 1.475 nsec/ft • BER: 10E-15 max 	
	Physical Properties		

Technical Specifications

- QSFP+ Cable Diameter: 3.4 mm
- SFP+ Cable Diameter: 3 mm
- QSFP+ Minimum Cable Bend Radius: 25 mm
- SFP+ Minimum Cable Bend Radius: 30mm

Services

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HP BladeSystem c-Class QSFP+ to 4x10G SFP+ 10m Active Optical Cable (721073-B21)	Connectivity	Length	32.82 ft. (10 m)
	Physical characteristics	Weight	0.62 lb. (0.28 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		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

Services

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<http://www.hp.com/services/bladesystem> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.

HP BladeSystem c-Class QSFP+ to 4x10G SFP+ 15m Active Optical Cable (721076-B21)	Connectivity	Length	49.21 ft. (15 m)
	Physical characteristics	Weight	.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)

Technical Specifications

Electrical characteristics

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

Services

Refer to the Hewlett Packard Enterprise website at:

<http://www.hp.com/services/bladesystem> for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local Hewlett Packard Enterprise sales office.

Summary of Changes

Date	Version History	Action	Description of Change
26-Oct-2016	From Version 2 to 3	Changed	Rebranding edition.
09-Feb-2015	From Version 1 to 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



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To learn more, visit: <http://h18004.www1.hp.com/products/blades/components/c-class-interconnects.html>

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