Overview

HPE 10Gb SFP+ Transceivers

Platform Information

Models

Recommended

These transceivers are recommended options that have 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 10Gb SFP+ SR Transceiver	455883-B21
HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver	455886-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

HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver (455883-B21)	**NOTE: A 10-Gigabit transceiver in SFP+ form-factor that supports the 10-Gigabit SR standard, providing 10-Gigabit connectivity up to 300 m on multimode fiber.**		
	Ports		1 LC 10-GbE port (IEEE 802.3ae Type 10Gbase-SR); Duplex: full only
	Connectivity	**Connector type**	LC
		Wavelength	850 nm
	Physical characteristics	**Dimensions**	2.19(d) x 0.54(w) x 0.47(h) in. (5.57 x 1.38 x 1.19 cm)
		Weight	0.04 lb. (0.02 kg)
		Transceiver form factor	SFP+
	Environment	**Operating temperature**	32ºF to 158ºF (0ºC to 70ºC)
		Operating relative humidity	0% to 85%, noncondensing
		Non-operating/ Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
		Altitude	Up to 10,000 ft. (3 km)
	Electrical characteristics	**Power consumption typical**	0.6w
		Power consumption maximum	0.8 W
	Cabling	**Cable type**	62.5/125 #m or 50/125 #m (core/cladding) diameter, graded-index, low metal content, multimode fiber optic, complying with ITU-T G.651 and ISO/IEC 793-2 Type A1b or A1a, respectively. Maximum distance:
			• 2-26 m with 62.5 #m multimode cable @ 160 MHz/km
			• 2-33 m with 62.5 #m multimode cable @ 200 MHz/km
			• 2-66 m with 50 #m multimode cable @ 400 MHz/km
			• 2-82 m with 50 #m multimode cable @ 500 MHz/km
			• 2-300 m with 50 #m multimode cable @ 2000 MHz/km
		Cable length	2- 300 m
		Fiber type	Multi-Mode
	Notes		For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. Angled Physical Contact (APC) is not recommended.

HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver (455886-B21)	**NOTE: A 10-Gigabit transceiver in SFP+ form-factor that supports the 10-Gigabit LR standard, providing 10-Gigabit connectivity up to 10 km on single-mode fiber.**		
	Ports		1 LC 10-GbE port (IEEE 802.3aq Type 10Gbase-LR); Duplex: full only
	Connectivity	**Connector type**	LC
		Wavelength	1310 nm

Technical Specifications

Physical characteristics	**Dimensions**	2.19(d) x 0.54(w) x 0.47(h) in. (5.57 x 1.38 x 1.19 cm)
	Weight	0.04 lb. (0.02 kg)
	Transceiver form factor	SFP+
Environment	**Operating temperature**	32ºF to 158ºF (0ºC to 70ºC)
	Operating relative humidity	0% to 85%, noncondensing
	Non-operating/ Storage temperature	-4ºF to 185ºF (-40ºC to 85ºC)
	Altitude	Up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	0.9w
	Power consumption maximum	1 W
Cabling	**Cable type**	Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1. Maximum distance:
		• 2m-10km with 9/125 #m single-mode cable
	Cable length	2m- 10km
	Fiber type	Single Mode
Notes		Conditioning patch cord cables are not supported. For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/ polish. Angled Physical Contact (APC) is not recommended.

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 3	Changed	Overview section was updated
09-Sep-2016	Version 2	Created	Technical Specifications section was updated.
26-Aug-2016	Version 1	Created	New QuickSpecs.

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