

QuickSpecs

HP SFP+ Transceivers (SR, LRM, LR and ER)

Overview

Models

HP X132 10G SFP+ LC SR Transceiver	J9150A
HP X132 10G SFP+ LC LR Transceiver	J9151A
HP X132 10G SFP+ LC LRM Transceiver	J9152A
HP X132 10G SFP+ LC ER Transceiver	J9153A

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Technical Specifications

HP X132 10G SFP+ LC SR Transceiver (J9150A)

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
Physical characteristics	Wavelength 850 nm
Environment	Dimensions 2.19(d) x 0.54(w) x 0.47(h) in. (5.57 x 1.38 x 1.19 cm)
Electrical characteristics	Weight 0.04 lb. (0.02 kg)
Cabling	Transceiver form factor SFP+
Notes	Operating temperature 32°F to 158°F (0°C to 70°C)
Services	Operating relative humidity 0% to 85%, noncondensing
	Nonoperating/Storage temperature -40°F to 185°F (-40°C to 85°C)
	Altitude up to 10,000 ft. (3 km)
	Power consumption typical 0.6 W
	Power consumption maximum 0.8 W
	Cable type: 62.5/125 µm or 50/125 µm (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:
	<ul style="list-style-type: none"> ● 2-26m with 62.5 µm multimode cable @ 160 MHz*km ● 2-33m with 62.5 µm multimode cable @ 200 MHz*km ● 2-66m with 50 µm multimode cable @ 400 MHz*km ● 2-82m with 50 µm multimode cable @ 500 MHz*km ● 2-300m with 50 µm multimode cable @ 2000 MHz*km
	Cable length 2-300m
	Fiber type Multi Mode
	For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. Angled Physical Contact (APC) is not recommended.
	Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

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Technical Specifications

HP X132 10G SFP+ LC LR Transceiver (J9151A)	Ports	1 LC 10-GbE port (IEEE 802.3ae Type 10Gbase-LR); Duplex: full only
	Connectivity	Connector type LC
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.	Physical characteristics	Wavelength 1310 nm
	Environment	Dimensions
Electrical characteristics		Weight
	Cabling	Transceiver form factor
Notes		Operating temperature
	Services	Operating relative humidity
		Nonoperating/Storage temperature
		Altitude
		Power consumption typical
		Power consumption maximum
		Cable type:
		Cable length
		Fiber type
		Notes
		Services

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HP SFP+ Transceivers (SR, LRM, LR and ER)

Technical Specifications

HP X132 10G SFP+ LC LRM Transceiver (J9152A)	Ports	1 LC 10-GbE port (IEEE 802.3aq Type 10Gbase-LRM); Duplex: full only
	Connectivity	Connector type LC
A 10-Gigabit transceiver in SFP+ form-factor that supports the 10-Gigabit LRM standard, for 10-Gigabit connectivity up to 220 m on legacy multimode fiber.	Physical characteristics	Wavelength 1310 nm
		Dimensions 2.19(d) x 0.54(w) x 0.47(h) in. (5.57 x 1.38 x 1.19 cm)
Environment	Weight 0.04 lb. (.02 kg)	
	Transceiver form factor SFP+	
	Operating temperature 32°F to 158°F (0°C to 70°C)	
	Operating relative humidity 0% to 85%, noncondensing	
Electrical characteristics	Nonoperating/Storage temperature -40°F to 185°F (-40°C to 85°C)	
	Altitude up to 10,000 ft. (3 km)	
	Power consumption typical 0.7 W	
Cabling	Power consumption maximum 1 W	
	Cable type: 62.5/125 µm or 50/125 µm (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 (a mode conditioning patch cord may be needed in some multimode fiber installations); Maximum distance: <ul style="list-style-type: none"> ● 0.5-220m with 62.5 µm multimode cable @ 160/500 MHz*km ● 0.5-220m with 62.5 µm multimode cable @ 200/500 MHz*km ● 0.5-100m with 50 µm multimode cable @ 400/400 MHz*km ● 0.5-220m with 50 µm multimode cable @ 500/500 MHz*km ● 0.5-220m with 50 µm multimode cable @ 1500/500 MHz*km 	
Notes	Cable length 0.5m to 220m Fiber type Multi Mode For OM3 cable (50 µm multimode @ 1500/500 MHz*km), a mode-conditioning patch cord is not required. Other multimode cables may require mode-conditioning patch cords to achieve the maximum distances listed above. For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. Angled Physical Contact (APC) is not recommended.	
Services	Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	

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HP X132 10G SFP+ LC ER Transceiver (J9153A)

The SFP+ ER Transceiver will transmit 10Gbps over up to 40km using standard OM3 fiber cable. This product expands the HP Networking transceiver portfolio for connections from 0m to 40km. Use only genuine HP transceivers with your HP Networking equipment to ensure reliability and support.

Ports	1 LC 10-GbE port (IEEE 802.3ae Type 10Gbase-ER); Duplex: full only
Connectivity	Connector type LC
Physical characteristics	Wavelength 1550 nm
	Dimensions 2.22(d) x 0.55(w) x 0.47(h) in. (5.65 x 1.39 x 1.19 cm)
Environment	Weight .04 lb., Fully loaded
	Transceiver form factor SFP+
	Operating temperature 32°F to 158°F (0°C to 70°C)
	Operating relative humidity 5% to 95%, noncondensing
Electrical characteristics	Nonoperating/Storage temperature -40°F to 185°F (-40°C to 85°C)
	Nonoperating/Storage relative humidity 5% to 95%, noncondensing
	Altitude up to 10,000 ft. (3 km)
Cabling	Power consumption typical 1.3 W
	Power consumption maximum 1.5 W
Notes	Cable type: Single-mode fiber optic, complying with ITU-T G.652; Maximum distance: <ul style="list-style-type: none">• 40km
	Fiber type Single Mode
Services	Check switch release notes for minimum version of software required to support this transceiver. Some switches have limits as to how many of this particular transceiver can be installed. See the release notes of the switch software/firmware being used for more details. Refer to the HP website at: www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

To learn more, visit: www.hp.com/networking

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