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

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	
	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**	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)	
	Altitude	up to 10,000 ft. (3 km)	
Electrical characteristics	**Power consumption typical**	0.6 W	
	Power consumption maximum	0.8 W	

Cabling

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:

- 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	

Notes — 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.

Technical Specifications

HP X132 10G SFP+ LC LR Transceiver (J9151A)

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 802.3ae Type 10Gbase-LR); Duplex: full only	
Connectivity	**Connector type**	LC
	Wavelength	1310 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. (.02 kg)
	Transceiver form factor	SFP+
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)
	Altitude	up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**	0.9 W
	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 μm single-mode cable	
	Cable length	2m to 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.	
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.	

Technical Specifications

HP X132 10G SFP+ LC LRM Transceiver (J9152A)

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.

Ports			1 LC 10-GbE port (IEEE 802.3aq Type 10Gbase-LRM); Duplex: full only
Connectivity	**Connector type**		LC
	Wavelength		1310 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. (.02 kg)
	Transceiver form factor		SFP+
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)
	Altitude		up to 10,000 ft. (3 km)
Electrical characteristics	**Power consumption typical**		0.7 W
	Power consumption maximum		1 W

Cabling

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:

- 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

Cable length	0.5m to 220m
Fiber type	Multi Mode

Notes

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.

Technical Specifications

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
	Wavelength	1550 nm
Physical characteristics	**Dimensions**	2.22(d) x 0.55(w) x 0.47(h) in. (5.65 x 1.39 x 1.19 cm)
	Weight	.04 lb., Fully loaded
	Transceiver form factor	SFP+
Environment	**Operating temperature**	32°F to 158°F (0°C to 70°C)
	Operating relative humidity	5% to 95%, noncondensing
	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)
Electrical characteristics	**Power consumption typical**	1.3 W
	Power consumption maximum	1.5 W
Cabling		Cable type: Single-mode fiber optic, complying with ITU-T G.652; Maximum distance: ● 40km
	Fiber type	Single Mode
Notes		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.
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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