

Overview

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10-G Transceivers	HP X131 10G X2 SC SR Transceiver	J8436A
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Optical media converter	HP X130 CX4 Optical Media Converter	J8439A



Technical Specifications

cl Modules

HP 10GbE Media Flex cl Module (J8435A)	Ports	2 open 10-GbE X2 transceiver slots
	Physical characteristics	Dimensions 6.81 x 4.5 x 1.6 in. (17.3 x 11.43 x 4.06 cm)
10-Gigabit module with 2 X2 transceiver slots	Environment	Weight 0.64 lb. (0.29 kg)
		Operating temperature 32°F to 131°F (0°C to 55°C); 104°F (40°C) when used with SR/LR/ER optics
		Operating relative humidity 15% to 95%, non-condensing
		Non-operating/Storage temperature -40°F to 158°F (-40°C to 70°C)
		Non-operating/Storage relative humidity 15% to 95% @ 149°F (65°C), non-condensing
	Notes	Duplex: full Operating temperature is 32°F to 104°F (0°C to 40°C) if any X2 10-GbE optic or transceiver is inserted in any X2 slot.
	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.

HP 10GbE CX4 Copper cl Module (J8434A)	Ports	2 10-GbE ports (IEEE 802.3ak Type 10Gbase-CX4); Duplex: full only
	Physical characteristics	Dimensions 6.81(d) x 4.5(w) x 1.5(h) in. (17.3 x 11.43 x 3.81 cm)
2-port 10-Gigabit module with fixed CX4 connectors and 0.5 m cable	Environment	Weight 0.67 lb. (0.3 kg)
		Operating temperature 32°F to 131°F (0°C to 55°C)
		Operating relative humidity 15% to 95%, non-condensing
		Non-operating/Storage temperature -40°F to 158°F (-40°C to 70°C)
		Non-operating/Storage relative humidity 15% to 95% @ 149°F (65°C), non-condensing
	Cabling	Maximum distance: <ul style="list-style-type: none">• 15 m using CX4 cable• 300 m using optical media converters and multimode fiber cable
	Notes	Use CX4 10-GbE cable (0.5-15 m) or ProCurve 10-GbE CX4 Media Converter (J8439A). Includes a single 0.5 m cable.
	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 X131 10G X2 CX4 Transceiver (J8440C)	Ports	1 CX4 10-GbE port (IEEE 802.3ak Type 10GBASE-CX4); Duplex: full only
	Connectivity	Connector type CX4
HP X131 10G X2 CX4 Transceiver: An X2 format 10-gigabit CX4 transceiver.	Physical characteristics	Dimensions 3.54(d) x 1.42(w) x 0.53(h) in. (8.99 x 3.61 x 1.35 cm)
		Weight 0.18 lb. (0.08 kg)
	Environment	Operating temperature 32°F to 131°F (0°C to 55°C)
		Operating relative humidity 15% to 95% @ 149°F (65°C), non-condensing
	Cabling	Maximum distance: <ul style="list-style-type: none"> • 15 m using CX4 cables • 300 m using optical media converters and multimode fiber cable
	Notes	Use CX4 10-GbE cable (0.5-15 m) or ProCurve 10-GbE CX4 Media Converter (J8439A). Includes a single 0.5 m cable.
	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.

HP X131 10G X2 SC SR Transceiver (J8436A)	Ports	1 SC 10-GbE port (IEEE 802.3ae Type 10GBASE-SR); Duplex: full only
	Connectivity	Connector type SC
HP X131 10G X2 SC SR Transceiver: An X2 format 10-gigabit transceiver with SC connectors using SR technology.	Physical characteristics	Wavelength 850 nm
		Dimensions 3.48(d) x 1.42(w) x 0.43(h) in. (8.84 x 3.61 x 1.09 cm)
		Weight 0.35 lb. (0.16 kg)
	Environment	Transceiver form factor X2
		Operating temperature 32°F to 158°F (0°C to 70°C)
		Operating relative humidity 0% to 95%, noncondensing
		Nonoperating/Storage temperature -40°F to 185°F (-40°C to 85°C)
		Nonoperating/Storage relative humidity 0% to 95%, noncondensing
	Electrical characteristics	Altitude up to 10,000 ft. (3 km)
		Power consumption typical 1.7 W
		Power consumption maximum 2.4 W
	Cabling	Cable type:: 62.5/125 μm or 50/125 μm (core/cladding) 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:



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- 2-26m with 62.5 μ m multimode cable @ 160 MHz*km
- 2-33m with 62.5 μ m multimode cable @ 200 MHz*km
- 2-66m with 50 μ m multimode cable @ 400 MHz*km
- 2-82m with 50 μ m multimode cable @ 500 MHz*km
- 2-300m with 50 μ m 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.

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HP X131 10G X2 SC LR Transceiver (J8437A)

An X2 form-factor transceiver that supports the 10-Gigabit LR standard, providing 10-Gigabit connectivity up to 10 km on single-mode fiber.

Ports	1 SC 10-GbE port (IEEE 802.3ae Type 10GBASE-LR); Duplex: full only
Connectivity	Connector type SC
Physical characteristics	Wavelength 1310 nm
Physical characteristics	Dimensions 3.48(d) x 1.42(w) x 0.43(h) in. (8.84 x 3.61 x 1.09 cm)
Physical characteristics	Weight 0.35 lb. (0.16 kg)
Environment	Transceiver form factor X2
Environment	Operating temperature 32°F to 104°F (0°C to 40°C)
Environment	Operating relative humidity 15% to 95%, noncondensing
Environment	Nonoperating/Storage temperature -40°F to 185°F (-40°C to 85°C)
Environment	Altitude up to 10,000 ft. (3 km)
Electrical characteristics	Power consumption typical 2 W
Electrical characteristics	Power consumption maximum 3 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: <ul style="list-style-type: none">• 10 km
Cabling	Cable length 2m to 10km with 9/125 μ m single-mode cable
Cabling	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



Technical Specifications

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.

<p>HP X131 10G X2 SC ER Transceiver (J8438A)</p>	<p>Ports</p>	<p>1 SC 10-GbE port (IEEE 802.3ae Type 10GBASE-ER); Duplex: full only</p>
<p>HP X131 10G X2 SC ER Transceiver: An X2 format 10-gigabit transceiver with SC connectors using ER technology.</p>	<p>Connectivity</p>	<p>Connector type SC</p>
<p>Physical characteristics</p>	<p>Wavelength</p>	<p>1550 nm</p>
<p>Environment</p>	<p>Dimensions</p>	<p>3.48(d) x 1.42(w) x 0.43(h) in. (8.84 x 3.61 x 1.09 cm)</p>
<p>Electrical characteristics</p>	<p>Weight</p>	<p>0.35 lb. (0.16 kg)</p>
<p>Cabling</p>	<p>Transceiver form factor</p>	<p>X2</p>
<p>Notes</p>	<p>Operating temperature</p>	<p>32°F to 104°F (0°C to 40°C)</p>
<p>Services</p>	<p>Operating relative humidity</p>	<p>15% to 95%, noncondensing</p>
	<p>Power consumption typical</p>	<p>3 W</p>
	<p>Power consumption maximum</p>	<p>4.5 W</p>
	<p>Cable type::</p>	<p>Low metal content, single-mode fiber-optic, complying with ITU-T G.652 and ISO/IEC 793-2 Type B1;</p>
	<p>Cable length</p>	<p>2m to 30km (max 40km on engineered links)</p>
	<p>Fiber type</p>	<p>Single Mode</p>
	<p>Conditioning patch cord cables are not supported</p>	<p>For fiber patch cords, use Ultra Physical Contact (UPC) surface termination/polish. Angled Physical Contact (APC) is not recommended.</p>
	<p>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.</p>	



Technical Specifications

HP X130 CX4 Optical Media Converter (J8439A)

Physical characteristics

Dimensions: 2.83(d) x 0.98(w) x 0.59(h) in. (7.19 x 2.49 x 1.5 cm)
Weight: 0.06 lb. (0.03 kg)

Cabling

Maximum distance:

- 62.5 μm multimode cable @ 150 MHz*km = 1-50 meters
- 50 μm multimode cable @ 500 MHz*km = 1-100 meters
- 50 μm multimode cable @ 2000 MHz*km = 1-300 meters

An optical media converter that connects to CX4 ports, providing 10-Gigabit connectivity up to 300 m on multimode fiber.

Notes

Duplex: full

The CX4 Media Converter connects directly to the CX4 port, and a 12-strand multimode ribbon cable is used between CX4 Media Converters.

The 12-strand multimode ribbon cable can have either 62.5 or 50 micron core diameters, terminated by standard Multiple Terminations Push-pull Latch (MTP) connectors in a crossover configuration. The ribbon cables are known as Multi-fiber Push (MPO).

Users should specify a "crossover" (often called "key up/key up") configuration for the ribbon cable. Also, specify female-female cables to connect to HP 10-GbE CX4 Media Converters.

For a suggested vendor of MPO ribbon cables, please see the "Cabling" answers on the "HP 10-GbE Transceivers

Services

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