Overview

### Models

HP X131 10G X2 SC SR Transceiver	J8436A
HP X131 10G X2 SC LR Transceiver	J8437A
HP X131 10G X2 SC ER Transceiver	J8438A
HP X131 10G X2 CX4 Transceiver	J8440C
HP X131 10G X2 SC LRM Transceiver	J9144A



#### Technical Specifications

10-gigabit transceiver with SC connectors using SR

technology.

HP X131 10G X2 SC SR **Ports** 1 SC 10-GbE port (IEEE 802.3ae Type 10GBASE-SR); Duplex: full only Transceiver (J8436A)

Connectivity SC Connector type

Wavelength 850 nm HP X131 10G X2 SC SR

Physical characteristics **Dimensions**  $3.48(d) \times 1.42(w) \times 0.43(h)$  in.  $(8.84 \times 3.61 \times 1.42)$ Transceiver: An X2 format

1.09 cm)

Weight 0.35 lb. (0.16 kg)

Transceiver form factor Х2

32°F to 158°F (0°C to 70°C) Environment Operating temperature 0% to 95%, noncondensing

Operating relative

humidity

Nonoperating/Storage -40°F to 185°F (-40°C to 85°C)

temperature

Nonoperating/Storage

relative humidity

0% to 95%, noncondensing

Altitude up to 10,000 ft. (3 km)

Electrical characteristics Power consumption 1.7 W

typical

Power consumption 2.4 W

maximum

Cabling Cable type::

 $62.5/125 \,\mu \text{m}$  or  $50/125 \,\mu \text{m}$  (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:

• 2-26m with 62.5 μm multimode cable @ 160 MHz\*km

• 2-33m with 62.5  $\mu$ m 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  $\mu$ m multimode cable @ 2000 MHz\*km

2-300m Cable length Multi Mode Fiber type

For fiber patch cords, use Ultra Physical Contact (UPC) surface Notes

termination/polish. Angled Physical Contact (APC) is not recommended.

Refer to the HP website at www.hp.com/networking/services for details on Services

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

the 10-Gigabit LR standard, providing 10-

fiber.

Gigabit connectivity up to

10 km on single-mode

HP X131 10G X2 SC LR **Ports** 1 SC 10-GbE port (IEEE 802.3ae Type 10GBASE-LR); Duplex: full only

Transceiver (J8437A) SC Connectivity Connector type

Wavelength 1310 nm An X2 form-factor

Physical characteristics **Dimensions**  $3.48(d) \times 1.42(w) \times 0.43(h)$  in.  $(8.84 \times 3.61 \times 1.42)$ transceiver that supports

1.09 cm)

Weight 0.35 lb. (0.16 kg)

Transceiver form factor Х2

Environment Operating temperature 32°F to 104°F (0°C to 40°C)

> Operating relative 15% to 95%, noncondensing

humidity

Nonoperating/Storage -40°F to 185°F (-40°C to 85°C)

temperature

Altitude up to 10,000 ft. (3 km)

Electrical characteristics 2 W Power consumption

typical

Power consumption 3 W

maximum

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:

• 10 km

Cable length 2m to 10km with 9/125 im single-mode cable

Single Mode Fiber type

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

10-gigabit transceiver with SC connectors using ER

technology.

HP X131 10G X2 SC ER **Ports** 1 SC 10-GbE port (IEEE 802.3ae Type 10GBASE-ER); Duplex: full only

Transceiver (J8438A) Connectivity Connector type SC

Wavelength 1550 nm HP X131 10G X2 SC ER

Physical characteristics **Dimensions**  $3.48(d) \times 1.42(w) \times 0.43(h)$  in.  $(8.84 \times 3.61 \times 1.42)$ Transceiver: An X2 format

1.09 cm)

Weight 0.35 lb. (0.16 kg)

Transceiver form factor X2

Environment Operating temperature 32°F to 104°F (0°C to 40°C)

Operating relative 15% to 95%, noncondensing humidity

Electrical characteristics Power consumption 3 W

typical

4.5 W Power consumption

maximum Cabling Cable type::

Low metal content, single-mode fiber-optic, complying with ITU-T G.652

and ISO/IEC 793-2 Type B1;

Cable length 2m to 30km (max 40km on engineered links)

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.

Refer to the HP website at www.hp.com/networking/services for details on Services

> the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales

1 CX4 10-GbE port (IEEE 802.3ak Type 10GBASE-CX4); Duplex: full only

office.

HP X131 10G X2 CX4

Transceiver: An X2 format

10-gigabit CX4 transceiver.

Transceiver (J8440C) Connectivity Connector type CX4

**Ports** 

Physical characteristics **Dimensions**  $3.54(d) \times 1.42(w) \times 0.53(h)$  in.  $(8.99 \times 3.61 \times 1.42)$ HP X131 10G X2 CX4 1.35 cm)

Weight 0.18 lb. (0.08 kg)

Transceiver form factor X2

Environment Operating temperature 32°F to 131°F (0°C to 55°C)

Operating relative 15% to 95%, noncondensing humidity

> Nonoperating/Storage -40°F to 185°F (-40°C to 85°C) temperature

Altitude up to 10,000 ft. (3 km)

Electrical characteristics 1.0 W Power consumption

typical

Power consumption 3.3 W maximum

#### Technical Specifications

Cabling Maximum distance:

• 15m with CX4 cables

• 300m with optical media converter and multimode fiber cable

Notes Connector: CX4; Duplex: full

Use CX4 10-GbE cable (0.5-15 m) or HP X130 CX4 Optical Media

Converter (J8439A).

For suggested vendors of CX4 cables, please see the "Cabling" answers on

the "HP 10-GbE Transceivers" FAQs Web page.

Optical Media Converter (OMC) J8439A is not supported on the C version

as the power supply for the OMC was removed in this design.

Refer to the HP website at www.hp.com/networking/services for details on Services

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 LRM Ports

Transceiver (J9144A)

Physical characteristics

Environment

1 SC 10-GbE port (IEEE 802.3aq Type 10GBASE-LRM); Duplex: full only

 $3.54(d) \times 1.59(w) \times 0.7(h)$  in.  $(9.0 \times 4.05 \times 1.78)$ 

cm)

An X2 form-factor

transceiver that supports

the 10-Gigabit LRM standard, providing 10-Gigabit connectivity up to

220 m on legacy multimode fiber.

Weight 0.35 lb. (0.16 kg)

Transceiver form factor X2

Operating temperature

32°F to 158°F (0°C to 70°C) Operating relative

0% to 95%, noncondensing

humidity

**Dimensions** 

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

3.2 W

Power consumption 4.2 W

maximum

Cabling Cable type:

> $62.5/125 \,\mu\text{m}$  or  $50/125 \,\mu\text{m}$  (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 (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  $\mu$ m multimode cable @ 200/500 MHz\*km

• 0.5-100m with 50  $\mu$ m multimode cable @ 400/400 MHz\*km

• 0.5-220m with 50  $\mu$ m multimode cable @ 500/500 MHz\*km

• 0.5-220m with 50  $\mu$ m multimode cable @ 1500/500 MHz\*km

Cable length .5m to 220m Fiber type Multi Mode

Notes Wavelength: 1310nm

> For OM3 cable (50 im multimode @ 1500/500 MHz\*km), a modeconditioning patch cord is not required. Other multimode cables may



### HP X131 10G X2 Transceivers (SR, LRM, LR, ER and CX4)

### Technical Specifications

require mode-conditioning patch cords to achieve the maximum distances

listed above.

For supported platforms and minimum software requirements to support this product, see the document titled "Support for the J9144A 10-GbE X2-SC LRM Optic" on the "HP 10-GbE Transceivers" Manuals Web page.

Power Consumption: 4W Max

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.

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

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