

ProCurve Switch cl Modules

cl Modules



ProCurve Switch cl 10-GbE Media Flex Module (J8435A)

10-Gigabit module with 2 X2 transceiver slots

Ports

2 open transceiver slots
Duplex: full

Physical characteristics

Dimensions (D x W x H): 17.3 x 11.43 x 4.06 cm (6.8125 x 4.5 x 1.6 in.)
Weight: 0.29 kg (0.64 lb.)

Environment

Operating temperature: 0°C to 55°C (32°F to 131°F); 40°C (104°F) when used with SR/LR/ER optics
Operating relative humidity: 15% to 95%, non-condensing
Non-operating/Storage temperature: -40°C to 70°C (-40°F to 158°F)
Non-operating/Storage relative humidity: 15% to 95% @ 65°C (149°F), non-condensing

Transceivers supported (ordered separately)

- J8436A ProCurve 10-GbE X2-SC SR Optic
- J8437A ProCurve 10-GbE X2-SC LR Optic
- J8438A ProCurve 10-GbE X2-SC ER Optic
- J8440B ProCurve 10-GbE X2-CX4 Transceiver

Notes

Operating temperature is 0°C to 40°C (32°F to 104°F) if any X2 10-GbE optics or transceiver is inserted in any X2 slot



ProCurve Switch cl 10-GbE CX4 Copper Module (J8434A)

2-port 10-Gigabit module with fixed CX4 connectors and 0.5 m cable

Ports

2 10-Gigabit Ethernet ports (IEEE 802.3ak Type 10Gbase-CX4 transceiver)
Duplex: full

Physical characteristics

Dimensions (D x W x H): 17.3 x 11.43 x 3.81 cm (6.81 x 4.5 x 1.5 in.)
Weight: 0.3 kg (0.67 lb.)

Environment

Operating temperature: 0°C to 55°C (32°F to 131°F)
Operating relative humidity: 15% to 95%, non-condensing
Non-operating/Storage temperature: -40°C to 70°C (-40°F to 158°F)
Non-operating/Storage relative humidity: 15% to 95% @ 65°C (149°F), non-condensing

Cabling

Maximum distance:
• 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.

Used with the following

ProCurve Switch 6410cl (J8474A)

ProCurve Switch 6400cl (J8433A)

ProCurve Switch 3400cl-48G (J4906A)

ProCurve Switch 3400cl-24G (J4905A)

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cl Modules (continued)



ProCurve 10-GbE X2-CX4 Transceiver (J8440B)

10-Gigabit X2 transceiver that supports a CX4 connector with distance of 15 m

Ports

Connector: CX4
Duplex: full

Physical characteristics

Dimensions (D x W x H): 8.99 x 3.61 x 1.35 cm (3.54 x 1.42 x 0.53 in.)
Weight: 0.08 kg (0.18 lb.)

Environment

Operating temperature: 0°C to 55°C (32°F to 131°F)
Operating relative humidity: 15% to 95% @ 65°C (149°F), non-condensing

Cabling

Maximum distance:
• 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).

10-GbE Optic



ProCurve 10-GbE X2-SC SR Optic (J8436A)

Transceiver that supports 10G SR fiber standard; supports standard 50 μ and 62.5 μ mmf up to 300 m

Ports

1 10-Gigabit Ethernet port (IEEE 802.3ae Type 10Gbase-SR 850 nm serial optics)
Connector: SC
Duplex: full

Physical characteristics

Dimensions (D x W x H): 8.84 x 3.61 x 1.09 cm (3.48 x 1.42 x .43 in.)
Weight: 0.29 kg (0.64 lb.)

Environment

Operating temperature: 0°C to 40°C (32°F to 104°F)
Operating relative humidity: 15% to 95%, non-condensing

Cabling

Type: 62.5 μm (core/cladding) diameter or 50 μm, 850 nm, low metal content, multimode fiber-optic, complying with the ITU-T G.652 and ISO/IEC 793-2 Type B1 standards

Maximum distance:

- 62.5 μm multimode cable @ 160 MHz/km = 2–26 meters
- 62.5 μm multimode cable @ 200 MHz/km = 2–33 meters
- 50 μm multimode cable @ 400 MHz/km = 2–66 meters
- 50 μm multimode cable @ 500 MHz/km = 2–82 meters
- 50 μm multimode cable @ 2000 MHz/km = 2–300 meters



ProCurve 10-GbE X2-SC LR Optic (J8437A)

10-Gigabit X2 transceiver that supports LR distance of 10 km with SC connector

Ports

1 10-Gigabit Ethernet port (IEEE 802.3ae Type 10Gbase-LR 1310 nm serial optics)
Connector: SC
Duplex: full

Physical characteristics

Dimensions (D x W x H): 8.84 x 3.61 x 1.09 cm (3.48 x 1.42 x 0.43 in.)
Weight: 0.07 kg (0.16 lb.)

Environment

Operating temperature: 0°C to 40°C (32°F to 104°F)
Operating relative humidity: 15% to 95%, non-condensing

Cabling

Type: low metal content, single-mode fiber-optic cables, complying with the ITU-T G.652 and ISO/IEC 793-2 Type B1 standards
Maximum distance: 9/125 μm single-mode cable = 2 m–10 km

Notes

Conditioning patch cord cables are not supported.



ProCurve 10-GbE X2-SC ER Optic (J8438A)

Supports the 10G ER standard. Supports single-mode fiber up to 40 km.*

Ports

1 10-Gigabit Ethernet port (IEEE 802.3ae Type 10Gbase-ER 1550 nm serial optics)
Connector: SC
Duplex: full

Cabling

Maximum distance (single-mode): 30 km*

Notes

Conditioning patch cord cables are not supported.

* Maximum distance 40 km using engineered link.

Used with the following

ProCurve Switch fl 1-Port 10-GbE X2 Interface Module (J8736A)

ProCurve Switch 6410cl (J8474A)

ProCurve Switch 6400cl (J8433A)—requires J8435A

ProCurve Switch cl 10-GbE Media Flex Module (J8435A)

ProCurve Switch yl 10-GbE 2-Port CX4 + 2-Port X2 Module (J8694A)

ProCurve Switch 5400zl 4-Port 10-GbE X2 Module (J8707A)

ProCurve Switch 3400cl-48G (J4906A)—requires J8435A

ProCurve Switch 3400cl-24G (J4905A)—requires J8435A

Services for accessories are covered under the product in which they are installed.

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Optical media converter

ProCurve 10-GbE CX4 Media Converter (J8439A), not pictured

Optical media converter for CX4 (10G copper) mmf cable up to 300 m

Port

Duplex: full

Cabling

Type: 12 fiber 62.5/125 µm (core/cladding) diameter or 12 fiber
50/125 µm diameter, multimode ribbon cable with MPO/MTP to
MPO/MTP connectors

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

Used with the following

ProCurve Switch 10-GbE X2-CX4 Transceiver (J8440B)

ProCurve Switch 6400cl (J8433A)

**ProCurve Switch cl 10-GbE CX4 Copper Module
(J8434A)**

**ProCurve Switch yl 10-GbE 2-Port CX4 + 2-Port X2
Module (J8694A)**

**ProCurve Switch 5400zl 4-Port 10-GbE CX4 Module
(J8708A)**