

# How is the serial interface of the XFP optical module



## Overview

The XFP 2-wire serial interface is used for serial ID, digital diagnostics, and certain control functions. It was defined by an industry group in 2002, along with its interface to other electrical components, which is called XFI. XFP modules can be installed or replaced in an Extreme Networks switch, I/O module, or router without powering off the system. All Extreme Networks XFP modules comply with. This Juniper Networks® XFP-10G-S compatible XFP transceiver provides 10GBase-SR throughput up to 300m over multi-mode fiber (MMF) using a wavelength of 850nm via an LC connector. It can operate at temperatures between 0 and 70C. The transceiver is compliant with CPRI, eCPRI. With these features, this 10G SFP+. ID systems defined for the GBIC and SFP transceivers. 12 document apply to Beta-and Production-level units only. Physical Medium Dependent (PMD) sublayer and baseband medium, type 10GBASE-S (short wavelength serial), 10GBASE-L (long wavelength serial), and.

## Article Content

Jun 15, 2026

XFP MSA (INF-8077i): 10 Gigabit Small Form Factor Pluggable ...

The modules may be used to implement single mode or multi-mode serial optical interfaces at 850 nm, 1310 nm, or 1550 nm. The XFP module design may use one of several different optical connectors. ...

May 04, 2026

Xfp-10g-s-c Datasheet

The XFP 2-wire serial interface is used for serial ID, digital diagnostics, and certain control functions. The 2-wire serial interface is mandatory for all XFP modules.

Aug 16, 2025

XFP transceiver

XFP modules are hot swappable and support multiple physical layer variants. They typically operate at near-infrared wavelengths (colors) of 850 nm, 1310 nm or 1550 nm. XFP modules use an LC fiber ...

Apr 25, 2026

Digital Diagnostic Monitoring Interface for XFP Optical Transceivers

This Application Note defines Finisar implementation of the XFP 2-wire serial interface, which is used for serial ID, digital diagnostics, and certain control functions. The 2-wire serial interface is mandatory for ...

Oct 08, 2025

10GBASE-ZR XFP 1550nm 80km Transceiver Datasheet | FS

Description The 10G XFP Optical Transceiver Module supports up to 80km link lengths over SMF via an LC duplex connector. The transceiver is compliant with CPRI, eCPRI. Digital diagnostics functions ...

Mar 03, 2026

OPTIXCOM XFP 10G REFERENCE MANUAL Pdf Download

The module can be inserted and removed from the cage with the heat sink and clip attached. Please note that OptixCom only offers the XFP transceiver module but not other components.

Mar 08, 2026

DATA SHEET

The digital diagnostics provides real-time access to operating parameters via a 2-wire serial interface, including operating temperature, laser bias current, transmitted optical power, received optical ...

Dec 12, 2025

Microsoft Word

The 2-wire serial interface provides sequential or random access to the 8 bit parameters, addressed from 000h to the maximum address of the memory. For more detailed information including memory ...

Mar 20, 2026

Pluggable Transceivers Installation Guide

XFP modules are 10-gigabit modules that convert serial electrical signals to external serial optical or electrical signals. XFP modules can be installed or replaced in an Extreme Networks switch, I/O ...

Jul 01, 2025

XFP 10G Dual LC Optical Transceivers

The module's 2-wire serial interface and all laser safety functions must be fully functional in this low power mode. During P\_Down, the module shall still support the completion of reset Interrupt, as well ...

## Contact Us

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