

Gulf Region Optical Core Router OSFP



Overview

The OSFP-800G-2xFR4L is designed to operate in switch and router applications supporting OSFP MSA compliant traffic for up to 6km links. 850 Gigabit signal is carried over 2xCWDM4 lanes. 25Gb/s. Cisco QSFP-DD and OSFP 800G ZR/ZR+ digital coherent optics modules enable 800G traffic over amplified Dense Wavelength-Division Multiplexing (DWDM) links up to 120 km for 800ZR and over 1000 km for 800G ZR+. Cisco ® QSFP-DD and OSFP 800G ZR/ZR+ coherent optics modules enable 800G traffic over. Octal Small Form-factor Pluggable (OSFP) solution that fits into high-density switch and router client ports for optical interconnect links Powered by Greylock and Delphi DSP ASICs, and silicon photonic integrated circuits (PICs) for an optimized co-packaged design with 3D Siliconization Supports. 800G Telecom ZR+, High Tx output power (0dBm), L-band 5THz tunable, 0°C to 70°C, LC receptacle 800G Digital Coherent Optics (DCO) transceivers are available to support various Dense Wavelength Division Multiplexing (DWDM) applications including Data Center Interconnect (DCI) up to 120km fiber. EXTREMEPORT™ OSFP CONNECTOR AND CAGE SYSTEMS SUPPORTING 56G, 112G & 224G Amphenol's ExtremePort™ OSFP connector and cage family delivers a scalable, high-performance interconnect platform designed for next-generation data centers, high-density switch/router systems, and high-speed serial. OpenZR+ was designed to expand the application space for a coherent solution in a small form factor pluggable module. OpenZR+ can help address not only a broader range of hyperscale data center applications for higher-performance edge and regional interconnects, but also some emerging carrier. Enter OSFP (Octal Small Form Factor Pluggable) — an open standard designed to deliver scalable, thermally optimized, and high-density optical connectivity for hyperscale, cloud, and AI-driven environments. Unlike the backward-compatible QSFP-DD, OSFP introduces a slightly larger mechanical form to.

Article Content

Hot

Understanding the OSFP Standard: The Open 400G/800G Optical

The OSFP standard marks a pivotal step toward scalable 400G and 800G optical networking, designed from the ground up for AI, cloud, and HPC infrastructures. With open MSA

Jun 06, 2026 Hot

Qatar's Ooredoo Group to build submarine cable

Ooredoo Group has entered into a new agreement to construct a submarine cable that will connect seven countries in the region – Qatar, Oman,

Mar 23, 2026 Hot

Ooredoo Group to build one of the largest international

Ooredoo has signed an agreement to build a new Fibre in Gulf submarine cable connecting seven GCC countries with Alcatel Submarine Networks.

Oct 12, 2025 Hot

Cisco OSFP 800G Transceiver Modules Data Sheet

Note: The OSFP-800G-VR8, OSFP-800G-VR8P, OSFP-800G-DR8 and OSFP-800G-DR8P require patch cords with angled physical contact (APC) MPO connectors. All cables and cable assemblies

Sep 12, 2025 Hot

Ooredoo and ASN to build subsea cable for GCC counties and Iraq

Qatar-based Ooredoo Group announced on Thursday it has signed an agreement with Alcatel Submarine Networks (ASN) to build a new subsea cable connecting seven countries in the

May 14, 2026 Hot

800G/600G/400G OSFP Digital Coherent Optics

High transmitter optical output power enable the transceivers to be compatible with deployed and emerging ROADM line systems. The 800G Digital Coherent Optics

Feb 13, 2026 Hot

Fiber Optic Trends That Are Transforming Gulf Infrastructure

In 2025, the Gulf region continues to witness exponential growth in digital infrastructure—driven by the accelerating demand for 5G, AI-enabled cities, and advanced cloud

Jun 12, 2026 Hot

The Ultimate Guide to OSFP Transceivers: Unveiling

Dive into the complexities of OSFP transceivers for 400G optical connectivity with Fibermall's ultimate guide.

Aug 07, 2025 Hot

FEATURES APPLICATIONS 800G OSFP 2xF

The optical transceiver supports a full CMIS-compliant set of control, alarm, and monitoring features through a standard I2C management interface, as well as low-speed control pins which support

Nov 30, 2025 Hot

OSFP Technology: Revolutionizing High-Speed

OSFP-based 800G/1.6T optical modules are becoming the norm. – Data Center Expansion: Hyperscale data centers need higher port density (e.g.,

Oct 30, 2025 Hot

Cisco QSFP-DD and OSFP 800G ZR/ZR+ Coherent

They expand Cisco routed optical networking applications to include 800G links and are compatible with Cisco and third-party 800G-capable routers,

May 02, 2026 Hot

A Comprehensive Guide to 400G OSFP Ethernet

Explore 400G OSFP Ethernet optical transceivers for modern data centers, AI and HPC networks. Learn OSFP advantages, use cases, and

Feb 10, 2026 Hot

800Gb/s OSFP 2xFR4L 1310nm 6km Optical Transceiver

The OSFP-800G-2xFR4L is designed to operate in switch and router applications supporting OSFP MSA compliant traffic for up to 6km links. 850 Gigabit signal is carried over

Feb 05, 2026 Hot

OSFP OCTAL SMALL FORM FACTOR PLUGGABLE MODULE

Below sub-sections illustrate block diagrams for a sampling of optical physical medium dependent sublayers (PMDs) that can be realized in an OSFP form factor. These block diagrams are meant to

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OSFP | High Speed Interconnects | Amphenol

Amphenol's OSFP base series supports high-speed transmission with 60 contacts per port, eight high-speed channels, and a ground-supported SI

Jun 20, 2026 Hot

Technical Overview of 800G OSFP Modules

Technical Overview of 800G OSFP Modules As the demand for faster and more efficient data transmission continues to rise, 800G OSFP (Octal Small

Jan 24, 2026 Hot

OSFP Product Family » Acacia

Octal Small Form-factor Pluggable (OSFP) solution that fits into high-density switch and router client ports for optical interconnect links. Powered by Greylock and

Dec 24, 2025 Hot

What Is an OSFP Module?

This article breaks down the OSFP module, a key player in optical communication, and why it matters. Understanding the Basics of an OSFP

Feb 03, 2026 Hot

Ooredoo to build submarine cable linking seven GCC countries

DOHA: Ooredoo Group has signed a historic agreement to build a new submarine cable connecting seven countries in the region – Qatar, Oman, the UAE, Bahrain, Saudi Arabia, Kuwait

Feb 22, 2026 Hot

Open Shortest Path First (OSPF) Protocol Fundamentals

Open Shortest Path First (OSPF) is a link-state Interior Gateway Protocol (IGP) developed by the Internet Engineering Task Force (IETF) to

Mar 28, 2026 Hot

OSPF Explained: What It Is, How It Works, and Why It

Discover the Open Shortest Path First (OSPF) routing protocol, including its definition, functions, advantages, limitations, practical applications,

Feb 23, 2026 Hot

What is OSFP Octal Small Form Factor Pluggable?

The OSFP is the third MSA aimed at creating a 400 Gigabit Ethernet optical transceiver form factor. It follows the CDFP (see “CDFP Rev. 3.0 for 400-Gbps optical modules now available”)

Nov 23, 2025 Hot

Cisco 400G Digital Coherent Optics QSFP-DD Optical Modules

Cisco offers a comprehensive range of pluggable optical modules in the Cisco® pluggables portfolio. The wide variety of modules gives you flexible and cost-effective options for all types of interfaces.

May 01, 2026 Hot

800Gb/s OSFP Transceivers | Optical Interconnect

Amphenol's 800G OSFP optical modules include 2xDR4 (plus), 2xFR4 (plus), 2xLR4, AOC, and AOC breakout series, which adopt LC or MPO

Mar 05, 2026 Hot

Understanding OSFP Modules: Your Guide to High

Discover how OSFP modules provide high-speed optical connectivity for data center applications. Learn about the different form factors, data rates,

Mar 13, 2026 Hot

QSFP-DD vs. OSFP: From 400G to 800G and Beyond

The latter has a slight operational advantage. In most cases, QSFP-DD is directly backward-compatible with current QSFP28 (100G) optics, while OSFP

Aug 07, 2025 Hot

ELSFP Implementation Agreement

ABSTRACT: This implementation agreement defines a form factor optimized for external lasers delivering continuous wave (CW) light to optical transceivers co-packaged within a system. They are

Apr 13, 2026 Hot

What Is OSPF and how does it work: OSPFv2 and OSPFv3

At its core, OSPF builds a complete view of the network by exchanging link-state information with neighboring routers. Each router then uses Dijkstra's algorithm to calculate the shortest path tree and

Mar 01, 2026 Hot

OSFP1600_and_OSFP-XD

The OSFP MSA roadmap provides an excellent mechanical and electrical solution for 800G, 1.6T, and 3.2T pluggable optics with best-in-class thermal performance and support for break-out applications,

Aug 11, 2025 Hot

Welcome to OSFPmsa

A: The OSFP is a pluggable form factor with 8x high speed electrical lanes that support up to 400 Gbps (8x50G), 800 Gbps (8x100G), or 1.6 Tbps (8x200G). Up

Jul 28, 2025

Contact Us

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