

# Overseas Warehouse Carrier-Grade Router OSFP

## Article Overview

Carrier-grade routers with OSFP support, such as the Cisco 8122-64EH-O, provide high-density, high-speed connectivity for data centers and service provider networks, supporting 400G to 800G Ethernet with advanced thermal and electrical design.

### OSFP Overview

OSFP (Octal Small Form-factor Pluggable) is a next-generation optical transceiver form factor designed for ultra-high-speed Ethernet, supporting 400G, 800G, and beyond. It features an eight-lane electrical interface (8 × 50G PAM4 for 400G, 8 × 100G for 800G) and a larger package size than QSFP-DD to accommodate higher power consumption and improved thermal management. OSFP modules offer two main thermal solutions: Integrated Heatsink (IHS) and Ride-on Heatsink (RHS), ensuring reliable operation in high-density deployments and AI/ML workloads in data centers .

### Carrier-Grade Router Example: Cisco 8122-64EH-O

The Cisco 8122-64EH-O is a 2RU carrier-grade router designed for high-performance backbones. Key features include:

- Port Density: 64 × 800GbE QSFP-DD ports, aggregating massive east-west and north-south traffic .
- Bandwidth: 51.2 Tb/s non-blocking capacity, ideal for leaf-spine fabrics, AI fabrics, and cloud interconnects .
- Open Networking: Supports integration with multiple network operating systems and simplifies deployment for distributors and system integrators .
- Global Deployment: Suitable for Asia, Europe, Africa, and North America, with overseas warehouse availability for fast shipping .

### OSFP Transceiver Compatibility

Modern OSFP modules, including Cisco 800G transceivers, provide flexible connectivity options:

- 800GE, 2 × 400GE, 4 × 200GE, and 8 × 100GE interfaces .
- IEEE-compliant high-speed electrical and optical performance...

## Article Content

Jul 05, 2026

### 1.6T OSFP: The Complete Guide to Next-Generation

Learn about 1.6T OSFP transceivers: specifications, OSFP-XD vs standard OSFP,

May 07, 2026

### OSFP Connectors & Cable Assemblies

Combined with strong electrical performance and broad system compatibility, TE OSFP connectors and cable assemblies deliver a

Nov 28, 2025

### 400G & 800G Solutions | HPE Juniper Networking US

The SDN-enabled MX2020 Universal Routing Platform is a high-capacity, carrier-grade, multiservice edge platform with extensive

Oct 02, 2025

### OSFP Guide

OSFP stands for Octal Small Form-factor Pluggable. OSFP is a high-speed, high-density, hot-pluggable transceiver module used in

Sep 09, 2025

### Coherent Routing | Nokia

Nokia Coherent Routing is designed to cross that gap: coherent optics hosted in carrier-grade routers,

Apr 05, 2026

### OSFP1600\_and\_OSFP-XD

The OSFP-XD SMT footprint is identical to the OSFP 2x1 SMT footprint. The host footprint compatibility will simplify an upgrade path

Mar 30, 2026

### Understanding 800G OSFP InfiniBand NDR Transceivers

What Is 800G OSFP InfiniBand NDR Transceivers? 800G NDR OSFP (Octal Small Form-factor Pluggable)

Aug 25, 2025

## OSFP | High Speed Interconnects | Amphenol

The OSFP (Octal Small Form-Factor Pluggable) connector is an 8-lane pluggable interface supporting PAM4 signaling at 56G, 112G,

Mar 06, 2026

Welcome to OSFPmsa

Q: Are OSFP and OSFP-XD Interoperable/Cross-compatible? A: No, due to mechanical and electrical differences, OSFP modules

May 26, 2026

FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Dec 16, 2025

Cisco Carrier Routing System

Cisco CRS Carrier Routing System Ethernet Physical Layer Interface Module  
Installation Note 28-Jun-2018 Cisco

Nov 11, 2025

OSFP Connectors & Cable Assemblies

TE's OSFP connectors and cable assemblies address next-generation data center needs by supporting aggregate data rates of

Jun 19, 2026

Panama Overseas Warehouse Fiber Optic Enterprise Router DML

Upgraded Fiber Optic Patch Cords Overseas Warehouse PAM4 Selection Guide for Surveillance-Grade Fiber Optic Enterprise

Nov 14, 2025

OSFP Connector Guide: 400G and 800G Modules, DAC, AOC, ACC,

OSFP (Octal Small Form-factor Pluggable) is the high-density, hot-pluggable connector for 400G and 800G Ethernet.

Nov 11, 2025

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

Aug 28, 2025

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

Mar 21, 2026

OSFP MSA Rev 5

Abstract: This specification defines the electrical connectors, electrical signals and power supplies, and mechanical and thermal

Jul 31, 2025

Cisco Carrier Routing System

For example, when I raise a Change Request (CR) in ServiceNow to configure a new VLAN ID and VLAN name, the

Jul 08, 2026

Cisco OSFP 800G Transceiver Modules Data Sheet

The Cisco ® OSFP 800G transceiver modules provide 800 Gigabit Ethernet (GE), 2x 400GE,

Dec 06, 2025

OSFP1600\_and\_OSFP-XD

The OSFP MSA is proud to introduce OSFP1600 and OSFP-XD to the industry. This whitepaper highlights the key aspects and

Dec 26, 2025

OSFP OCTAL SMALL FORM FACTOR PLUGGABLE MODULE

Abstract: This specification defines the electrical connectors, electrical signals and power supplies, mechanical and thermal

Aug 30, 2025

800G Transceiver Overview: QSFP-DD and OSFP Packages

This article provides an overview of 800G optical transceivers, focusing on the QSFP-DD and OSFP packages.

## Contact Us

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