

# OSFP112 Optical Module



## Overview

The STC-800G-2xDR4 OSFP112 is an advanced optical transceiver module designed for high-capacity short-reach data center and hyperscale environments. Designed and engineered to accommodate customers high usage 2000 cycles at -40°C to 85°C, the loopback module series are the most reliable products in the market to enable the quickest customers systems production and deployment. Software defined multiple power consumption may emulate the optical. Among these cutting-edge solutions is OSFP112 (Octal Small Form-factor Pluggable 112), which provides more bandwidth while consuming less power and being more dependable. The module. 800G-2xLR4 OSFP112 based on EML. 8 channels of 100G-PAM4 electrical data, 2 sets of 4 CWDM lanes MUX/DEMUX design, 10km maximum reach via single mode fiber, case temperature range of 0°C-70°C, comply with IEE802. 3ck and QSFP-DD MSA standards, and support CMIS5. Products are mainly used in 800G.



## Article Content

Dec 04, 2025

Breaking New Frontiers in AI Infrastructure: The Launch of the TS

Discover the details of Breaking New Frontiers in AI Infrastructure: The Launch of the TS-OPO8-858H-01C-V 800G OSFP VR8 Optical Transceiver at LonRise Equipment Co. Ltd., a leading

Aug 26, 2025

OSFP vs QSFP-DD vs QSFP112 - Choosing the Best

In today's rapidly evolving data center and telecom environments, choosing the right optical module form factor is more critical than ever. Among the

Oct 07, 2025

OSFP112 Form Factor 800G 2xFR4 Optical

The 800G OSFP112 2xFR4 Optical Module is an ideal choice for a variety of application occasions and scenarios. It can be used in data center environments

Jun 16, 2026

OSFP vs. QSFP vs. SFP: Which Is Right for You?

Confused about the differences between OSFP, QSFP, and SFP? This guide explains their distinct features, applications, and helps you choose the

Nov 07, 2025

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

OSFP (Octal Small Form Factor Pluggable) is a pluggable optical transceiver interface standard that supports eight electrical lanes (Tx/Rx) per module. Each lane can operate up to 100G

Dec 16, 2025

OSFP Coherent Optical Module Planning for the Future: Key Trends

Within module types, the 400G OSFP coherent optical module is anticipated to experience the most rapid growth, driven by the demand for enhanced bandwidth and the widespread

Jan 22, 2026

QSFP-DD vs OSFP: What Are the Differences?

QSFP-DD vs OSFP: Thermal Capacity and Power Consumption The QSFP-DD is smaller in size, so its thermal capacity is only 7 to 12 watts. While the OSFP is

Jul 09, 2025

1.6T OSFP Optical Transceiver Module | Sate Optics - 8x200G for AI ...

Sate Optics offers 1.6T OSFP optical transceiver modules with 8x200G architecture, EML & silicon photonics options, compliant with IEEE802.3dj and OSFP MSA. Ideal for 1.6T Ethernet, AI/ML

Feb 21, 2026

800G-OSFP112-AI and Data Center Networking

800G-2xDR4 OSFP112 based on 8 channels of 100G-PAM4 electrical and optical parallel lanes, dual MPO-12/APC optical connectors, 500m maximum reach via

Jun 11, 2026

NVIDIA Optical Modules: QSFP-DD/OSFP 800G Solutions,

Explore NVIDIA's 800G optical modules with QSFP-DD and OSFP form factors. Learn about performance specifications, compatibility features, and application scenarios for AI clusters

Jul 04, 2025

Optical Transceiver Solutions for Cloud Performance

Explore advanced optical transceiver technology for hyperscale environments, ensuring performance and reliability across platforms.

Jan 29, 2026

Innovation Trends in OSFP Optical Module: Market

The OSFP optical module market is booming, driven by high-bandwidth demands in data centers and HPC. Explore market size, CAGR, key players (II-VI, Cisco,

Mar 14, 2026

OSFP112 800G Loopback Module

The built-in surge current mitigation technology mitigates the DUT risks from being damaged. The broad operating temperature range accommodates the enterprise, datacom and telecom applications. The

Dec 03, 2025

400G OSFP/QSFP-DD/QSFP112 Module Introduction

This article explores the technical characteristics, product lineup, and use cases of 400G OSFP/QSFP-DD/QSFP112 modules to choose the most

Oct 16, 2025

AddOn 400G OSFP112 SR4 Transceiver MMA4Z00-NS400

The AddOn Networks Mellanox MMA4Z00-NS400 Compatible OSFP112 RHS Transceiver is an optical module for 400GBase-SR4 Ethernet, supporting up to 50m over multi-mode fiber (MMF). It uses

Jul 25, 2025

800G-OSFP112-800G-Pinewave

800G-DR8 OSFP112 based on 8 channels of 100G-PAM4 electrical and optical parallel lanes, MPO16/APC optical connector, 500m maximum reach via single mode fiber, case temperature range

May 03, 2026

800G-2xDR4 - OSFP112 500m Transceiver

The STC-800G-2xDR4 OSFP112 is an advanced optical transceiver module designed for high-capacity short-reach data center and hyperscale environments. Based on two parallel 400G DR4 channels, it

Apr 05, 2026

400G OSFP112-RHS AOC Optical Transceiver Module

This structure supports a flat 256 byte memory for passive copper modules and permits timely access to addresses in the Lower Memory, e.g. Flags and Monitors. Less time critical entries, e.g. serial ID

Feb 12, 2026

800G OSFP112 SR8 100m Optical Transceiver Module | GIGALIGHT

This transceiver is a high performance module for short-range multi-lane data communication and interconnection applications. It integrates eight data lanes in each direction with 8x53.125GBd.

Oct 18, 2025

LonRise Launches High-Performance OSFP-800G-DR8 Transceiver

Discover the details of LonRise Launches High-Performance OSFP-800G-DR8 Transceiver for Hyperscale AI Networking at LonRise Equipment Co. Ltd., a leading supplier in China for Optical

Dec 12, 2025

## OSFP | High Speed Interconnects | Amphenol

ExtremePort™ OSFP 224G Connectors Amphenol's ExtremePort™ OSFP 224G interconnect system delivers up to 1.6T per port and 51.2 Tb/s per

May 29, 2026

## Everything You Need to Know About osfp112: The Future of

A: An OSFP112 transceiver is a highly developed optic module meant for quick data transfer. It supports the speed of 400G Ethernet, among other multiple technologies integrated with

Dec 13, 2025

## Next-Generation Connectivity: The Rise of 800G OSFP 2\*FR4 Optical ...

Discover the details of Next-Generation Connectivity: The Rise of 800G OSFP 2\*FR4 Optical Transceivers in AI Data Centers at LonRise Equipment Co. Ltd., a leading supplier in China

## Contact Us

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