

# Qdd and 112 optical module



## Overview

This article will introduce the technical features and differences of 400G OSFP/QSFP-DD/QSFP112 modules, presenting the FS 400G module product list and application scenarios to meet various deployment needs. The explosive growth of global data volume has placed higher demands on the bandwidth and performance of data center networks, making 400G optical modules a critical component of modern network infrastructure. The product family includes 400G QSFP-DD, QSFP112 and OSFP optical transceivers, providing interconnection distances from 100m up to 40km for RoCE networking. The 400G optical module is an optical-electrical conversion module that supports high-speed data transmission of 400Gbps. It achieves high-speed interconnection in scenarios such as data centers through photoelectric. This guide provides a comprehensive comparison covering speed, compatibility, port density, applications, and deployment strategies, offering actionable insights for both current and future network designs. Among the most discussed options are OSFP, QSFP-DD, and QSFP112. Each of these standards represents a step forward in bandwidth, density, and efficiency.

## Article Content

OSFP vs QSFP-DD vs QSFP112 – Choosing the Best

Understanding Optical Module Form Factors Before comparing OSFP, QSFP-DD, and QSFP112 directly, it's helpful to understand what a form factor

Understanding the 400g QSFP112 Optical Transceiver

The 400G QSFP112 optical transceiver module is a game changer in networking and data transmission. With rising demand for faster data transfer

AOC, DAC, ACC, AEC Modules: The most Complete

Understand AOC, DAC, ACC & AEC modules in one guide. Compare features, benefits & best use cases to choose the right cable for your data center.

800G QSFP112-DD Optical Transceiver Modules

AscentOptics' 800G QSFP-DD optical transceiver module includes two architecture solutions, 4x100Gx2 and 8X100G. In addition to the traditional EML design, it also

400G OSFP/QSFP-DD/QSFP112 Module Introduction

FS 400G QSFP-DD module can be paired with optical fiber cables to enable various links, achieving different network upgrades. Take QDD-SR8-400G

Differences Between QSFP-DD and QSFP+ / QSFP28 /

As a leading solution in high-speed applications, QSFP-DD transceivers are often compared with other modules such as QSFP56, QSFP112,

Differences Between QSFP-DD and QSFP, QSFP28, QSFP56,

Explore the technical differences, performance characteristics, and practical deployment strategies of QSFP-DD compared to QSFP, QSFP28, QSFP56, QSFP112, OSFP, and CFP2

Interface and Hardware Component Configuration Guide

Guide to configuring QDD Optical Line Systems, including operational modes, safety features, and troubleshooting alarms.

QSFP-DD vs OSFP vs QSFP112: Which 400G Module

400G optical module packaging comparison: Choose QSFP-DD, OSFP, or QSFP112 for data center, AI, or HPC based on compatibility, power, and cost. Optimize

QSFP112 vs QSFP-DD: Key Differences in 400G Optics

This article provides a structured, in-depth comparison of QSFP112 vs QSFP-DD in 400G optics, focusing on architecture, performance, deployment considerations, and future trends.

#### 400G QSFP112 SR4 VS QDD SR4 VS QDD SR8

Today, there are several different types of 400G optical modules on the market. QDD SR4, QSFP112 SR4 and QDD SR8 are common packages.

#### Cisco 400G QSFP-400G-DR4 Transceiver Modules Data Sheet

High-bandwidth transceiver modules based on the QSFP112 form factor, targeting NICs used in data centers, high-performance computing networks, and AI applications. They support 400G

#### Cisco 400G QSFP-DD Cable and Transceiver Modules

The Cisco QDD-400-AOCxM modules (Figure 4) with AOC cables are suitable for short distances and offer a flexible way to connect within racks and across racks. Active optical cables are much thinner

#### QSFP-DD vs OSFP vs QSFP56 vs QSFP112 | FiberMall

QSFP112 is an advanced version of the QSFP form factor, supporting 400G by using four lanes at 112 Gb/s each with PAM4 modulation. It retains the

#### QSFP-DD vs OSFP vs QSFP56 vs QSFP112 | FiberMall

QSFP-DD is the mainstream module of 400G transceivers which is different than other form factors like OSFP and QSFP56.

#### 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

#### 400G Modules Compared: QSFP-DD, OSFP & QSFP112

Unsure which 400G module fits your data center? Compare QSFP-DD, OSFP, and QSFP112 with expert insights for top performance and scalability.

#### 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

#### 400G OSFP/QSFP112/QSFP-DD | Transceiver Modules

FS provides an expanding portfolio of 400G OSFP/QSFP112/QSFP-DD solutions featuring high-performance, high-bandwidth, and backward compatibility. The

#### Overview of the 400G QSFP112 Optical Transceiver Module

The 400G QSFP112 optical transceiver module has revolutionized the field of networking and data transmission. With the increasing demand for faster data transfer rates, this device offers

QSFP-DD Optical Module Overview: What is the differ?

This article will introduce the next generation optical module in detail, QSFP-DD, also known as quad small factor pluggable, and this article will also

Configuring QDD Optical Line System

Supported Wavelength or Frequency Configuration Currently, an optical line system (OLS) requires a separate Cisco Network Convergence System 1000 Series or Cisco Network Convergence System

Configuring QDD Optical Line System

Currently, an optical line system (OLS) requires a separate Cisco Network Convergence System 1000 Series or Cisco Network Convergence System 2000 Series optical system with dedicated 48 or 64

400G OSFP/QSFP-DD/QSFP112 Ethernet Optical Transceivers

NADDOD provides high-quality, high-capacity 400G Ethernet transceivers for RoCE networking, including 400G OSFP, QSFP-DD, and QSFP112 optical transceivers.

## Contact Us

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