



**Adam Tas Corridor Energy**

# **Nordic OSFP optical modules and QSFP for IDC data centers**





## Overview

---

The 400G OSFP is a new pluggable form factor with eight high-speed electrical lanes that will initially support 400Gb/s (8x50G). It is slightly wider and deeper than the QSFP but it still supports 36 OSFP ports per 1U front panel, enabling 14. PAM4 is the main modulation method of 400G QSFP-DD, and there are two types—multi-mode and single-mode. The 400G QSFP-DD based on PAM4 modulation uses 8x50G PAM4 modulation on the electrical port side, and 8x50G PAM4 and 4x100G PAM4 modulation types on the optical port side. Both methods use the DSP as a CDR (no analog CDR is built) or use a combination of Gearbox and CDR.



## Nordic OSFP optical modules and QSFP for IDC data centers

---



### QSFP-DD Optical Transceivers for High-Speed Connections

Product overview The ongoing explosion of data traffic is driving the need for faster processing, greater bandwidth, and higher density connections within and between data centers. Network operators are

### Understanding SFP, SFP+, QSFP and Beyond:

In the world of networking, the ability to connect devices with high-speed data transmission is crucial. Whether you are setting up a local area network (LAN), a



### NVIDIA Optical Modules Buying Guide: QSFP-DD vs OSFP 800G

Comprehensive guide to NVIDIA optical modules covering QSFP-DD and OSFP 800G solutions. Learn about compatibility, deployment considerations, and technical specifications for

### SFP vs QSFP: The Definitive Technical and Strategic Guide

Decisions regarding optical transceivers, commonly referred to as optical transceivers, will



mark a pivotal turning point for network architects. A poor choice of form factor can waste millions



### SFP vs QSFP+ vs OSFP: the Differences and Upgrade

Explore the differences between SFP, QSFP+, and OSFP transceiver modules. Learn when to upgrade your networking infrastructure for optimal

### NVIDIA Optical Transceivers: QSFP-DD/OSFP 800G

Complete guide to NVIDIA optical transceivers covering QSFP-DD and OSFP form factors for 800G networks. Learn about compatibility, deployment



### Extreme Networks Optical Modules: QSFP-DD/OSFP Deployment

As data centers and enterprise networks grapple with exponential traffic growth, the limitations of traditional QSFP28 and QSFP56 modules become apparent. QSFP-DD and OSFP



## The Big Differences Between SFP, SFP+, SFP28,

This is driving continuous advancements in SFP technologies to cater to these applications. The current shift in data centers towards 400G speeds



## 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

## 400G QSFP-DD vs. 400G OSFP: A Comprehensive

Discover the key differences between 400G QSFP-DD and 400G OSFP optical transceivers. Learn about their design, performance, and applications to make



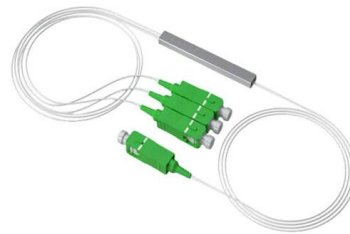
## 800G Optical Modules: A Detailed Comparison of QSFP

To make the right choice between QSFP-DD and OSFP, consider the specific needs of your network.



## The Role of OSFP-800G-2FR4 Optical Modules in AI

The OSFP-800G-2FR4 is an 800G optical module based on the QSFP-DD, utilizing PAM4 technology and operating at a 1310nm wavelength.

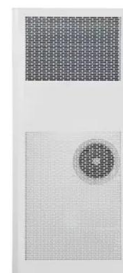


## QSFP-DD vs OSFP: Which 400G/800G Form Factor

Compare QSFP-DD and OSFP. Learn about size, compatibility, cooling, density, and use cases. Includes comparison tables, deployment advice,

## 800G OSFP vs QSFP-DD: How to Choose the Right

This article compares OSFP and QSFP-DD in terms of physical dimensions, power and thermal characteristics, and compatibility, providing



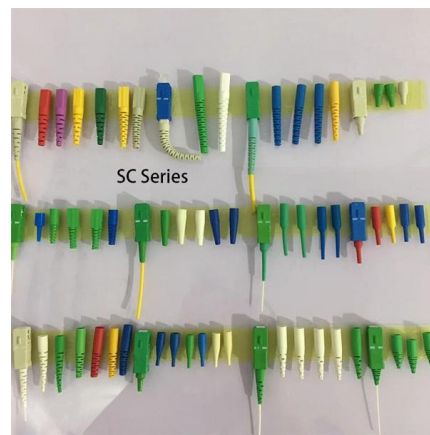


## Choosing Between OSFP and QSFP-DD: Key

Whether you're deploying OSFP or QSFP-DD platforms, our transceivers integrate seamlessly with OEM platforms while providing the

## 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,



## Top Optical Modules for POTN Deployment: SFP, QSFP, and OSFP

Modern optical transport networks are the nervous system of digital infrastructure. As data demand continues to multiply, choosing the right optical module becomes a crucial decision in



## Extreme Networks Optical Modules: QSFP-DD & OSFP Solutions with

Extreme Networks Optical Modules: Spotlight on QSFP-DD/OSFP Solutions and Compatibility In today's high-performance data center and network infrastructure landscape,



### **400G OSFP/QSFP-DD/QSFP112 Module Introduction and Selection**

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

### **QSFP+ vs. OSFP: A Comprehensive Comparison of**

In the rapidly evolving landscape of data center and networking infrastructure, optical transceivers play a pivotal role in enabling high-speed data



### **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



## 400G QSFP-DD and OSFP Transceivers , A Direct

Read a direct comparison here of how the two form factors, QSFP-DD and OSFP, of 400G modules differ in terms of compatibility, performance,



## Interconnection Between OSFP and QSFP-DD Ports for 400G/800G

This article outlines key OSFP and QSFP-DD differences and offers four practical interconnection solutions to support scalable 400G/800G data center networks.

## Introduction to OSFP

OSFP (Octal Small Formfactor Pluggable) is a high-speed optical module packaging technology designed to meet the growing demand for ultra



## Interconnection Between OSFP and QSFP-DD Ports for

As data centers transition to 400G/800G networks, device interoperability has emerged as a key challenge. With exponential traffic growth,

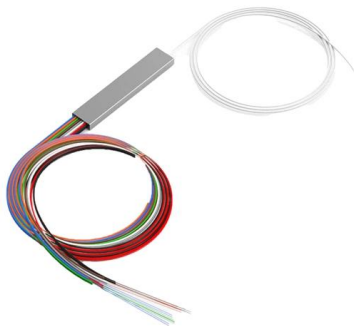


### QSFP-DD vs OSFP: Choosing the Right Form Factor for Modern Data

A practical comparison of QSFP-DD vs OSFP for 400G and 800G deployments, with guidance for AI and high-density data center architectures.

Ordering information

Model	1	2	3	4	5	6
Model	QSFP-DD1	QSFP-DD2	QSFP-DD3	QSFP-DD4	QSFP-DD5	QSFP-DD6
Product name	QSFP-DD1	QSFP-DD2	QSFP-DD3	QSFP-DD4	QSFP-DD5	QSFP-DD6
Illustration						
PLZ	1	2	4	1	2	4
Maximum number of ports	144	288	576	144	288	576
Product size (including module and adapter) mm	40.2 x 102.7 x 14	40.2 x 102.7 x 18.1	40.2 x 102.7 x 22	40.2 x 102.7 x 14	40.2 x 102.7 x 18.1	40.2 x 102.7 x 22
Standard color code	9AL9005	9AL9005	9AL9005	9AL9005	9AL9005	9AL9005
Inventory	2	2	2	2	2	2



### Interconnection Between OSFP and QSFP-DD Ports for 400G/800G Data Centers

This article outlines key OSFP and QSFP-DD differences and offers four practical interconnection solutions to support scalable 400G/800G data center networks.

### OSFP vs QSFP-DD Comparison , 800G Optical Module Form Factors

Detailed analysis of OSFP and QSFP-DD form factors for 800G optical modules. Compare specifications, thermal management, backward compatibility, and choose the right solution





## Contact Us

---

For datasheets, pricing, or custom telecom energy solutions, please visit:  
<https://www.koskolong.co.za>