

# **In Stock Linear Drive Pluggable Optical QSFP-DD**





## Overview

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Amphenol's QSFP-DD Linear Pluggable Optical (LPO) Transceiver delivers low-latency, high-bandwidth PCIe® Gen 5.0 over optical link, enabling scalable server disaggregation and efficient rack-to-rack interconnects ideal for AI/ML and rack-scale data center expansion. The wide variety of modules gives you flexible and cost-effective options for all types of interfaces. Cisco offers a range of GBIC, SFP, XFP, SFP+, CXP, CFP, Cisco CPAK, and QSFP+ pluggable. OIF 400ZR, Standard Tx output power (-10dBm), C-band tunable, Pull tab, 0°C to 70°C, LC receptacle. Reconfigurable optical add/drop multiplexers (ROADMs) in existing and emerging DWDM transport networks require a high optical launch power (0 dBm) and high transmit in-band and out-of-band optical.



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### Optical Transceivers in Data Centers Market

Global Optical Transceivers in Data Centers Market - Key Trends & Drivers Summarized Are Optical Transceivers Enabling the Scalability and Speed of Next

### Presentation

EXTENSIBILITY TO LINEAR, HALF-LINEAR, NEAR AND CO-PACKAGED OPTICS LPO, TRO, and CPO are packaging and architectural partitioning changes, as compared to traditional retimed



### NADDOD QDD-800LPO-2DR4 Arista Compatible 800G QSFP-DD

NADDOD Arista compatible 800G QSFP-DD 2xDR4 LPO optical transceiver features a linear-drive architecture with no traditional DSP chip, delivering low power consumption of less than 8W and ultra

### 800G OSFP Optical Transceiver Modules

Cisco Compatible 800GBASE-LR8 (2x 400G LR4)  
Twin-port OSFP IHS/Closed Finned Top PAM4  
1310nm 10km Dual Duplex LC/UPC DDM SMF  
Optical Transceiver Module for Ethernet and



### Cisco 400G QSFP-DD High-Power (Bright) Optical

Learn how Cisco 400G QSFP-DD High-Power (Bright) Optical module's small size and low power make it an optimal choice for a wide range of



### Everything You Need to Know About 800G/1.6T Optical Transceiver

The 800G solution, through QSFP-DD/OSFP packaging, increases the single-port rate to 800Gbps with 8-channel parallel transmission, and reduces power consumption by 30% in



### FTCE4717E1PCB 800G OSFP Transceiver for Data Centers

QSFP+, QSFP28, QSFP56, QSFP-DD Are you lost in the optical transceiver alphabet soup? ??? As data centers scale, the naming conventions for high-speed optics have become increasingly





## Linear Pluggable Optics\_V2

### Linear Pluggable Optics - An Overview

Introduction: With the advent of Artificial intelligence (AI) and the push to increase domestic manufacturing, the data center workloads and associated power



### 400G QSFP-DD Optical Transceivers , Carritech Optics

400G QSFP-DD Optical Transceivers. In stock. Browse our range of QSFP-DD transceivers. Lifetime Warranty is included with all products.

### The New Era of 800G Optical Transceiver

LPOs, or linear-drive pluggable optics, are a cost-effective and practical 800G solution for AI servers. Despite the slowdown in capital



IP65 / IP67 Sealing Design



Reserved Bottom Mounting Holes



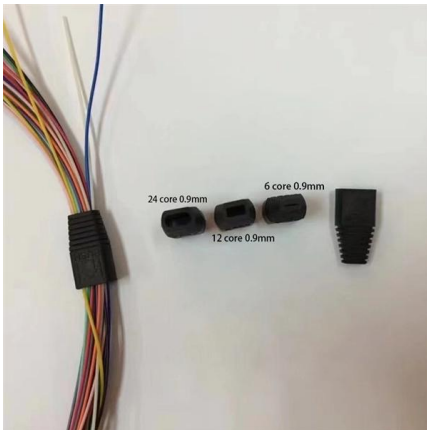
### Optical Transceivers SFP SFP28 QSFP28 QSFP-DD 1G to 400G Range

By partnering with tier-1 optical component manufacturers, we ensure every module meets the highest industry standards. Each transceiver undergoes rigorous testing and comes supported by a Limited



## OSFP Transceivers: High-Density Optical Connectivity from 400G to

As hyperscale data centers shift toward AI-optimized fabrics and ultra-high-bandwidth switching platforms, the OSFP (Octal Small Form-Factor Pluggable) form factor has become central



## QSFP-DD Linear Pluggable Optics Demo by Amphenol

Watch Amphenol's expert demonstrate the QSFP-DD Linear Pluggable Optics in action at the OFC 2025! Lightning-fast PCIe Gen 5 connectivity, 8-channel full-duplex, 50m reach, and <5W power.

## QSFP-DD Linear Pluggable Optics (LPO)

Amphenol's QSFP-DD Linear Pluggable Optical (LPO) Transceiver delivers low-latency, high-bandwidth PCIe® Gen 5.0 over optical link, enabling scalable server disaggregation and efficient rack-to-rack



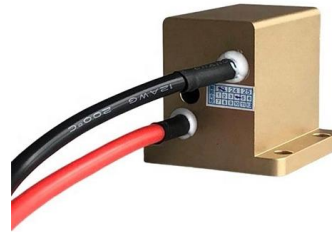
## Optical Transceivers MSA Standards Technical Guide

Major Types of MSA Standards (SFP, QSFP, QSFP-DD, OSFP & Beyond) Multi-Source Agreements (MSAs) define standardized mechanical, electrical, and optical interfaces for pluggable modules,



### QSFP-DD 400G optical transceivers SR8, DR4, FR4 and LR4 models

We can currently offer multi-mode SR8 and single-mode DR4 500m, FR4 1Km and LR4 10Km transceivers for the QSFP-DD 400G interface.



### 400G QSFP-DD Digital Coherent Optics transceiver

By plugging Coherent's high transmit output power 400G QSFP-DD-DCO transceivers directly into their switches or routers, network operators can remove

### CAT 7 FTP JACK



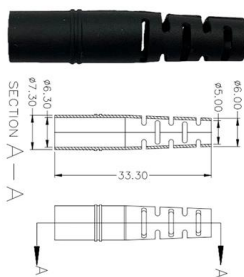
### Optical Component Startup Tracker

The number of venture-backed optical component startups has exploded - the Optical Component Start-Up Tracker identifies these companies



### Cisco Compatible 800G OSFP 2xFR4/FR8 PAM4 CWDM4 1310nm 2km Optical

Can I use 800G OSFP optical modules for 800G QSFP-DD ports? No, OSFP and QSFP-DD are different size packages with different physical dimensions and are not compatible. Can I interconnect





### QSFP-DD LR4 400GbE Universal Optical Transceiver

The 400G QSFP-DD LR4 optical transceiver transmits data over single mode fibre at a distance of up to 10km. The transceiver operates on CWDM4 wavelengths and

**5-INCH COLOR TOUCHSCREEN**  
Intuitive operation, easily accessible with just one touch



Industrial-grade CPU  
sensitive response  
1 second startup  
Smooth experience



### A Faster Future with Linear Pluggable Optics

Linear Pluggable Optics are a low-power pluggable module interface that eliminates DSP chips, creating a linear signal path.

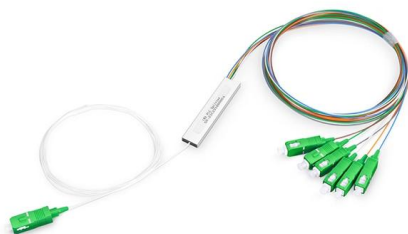
### 400G OSFP/QSFP112/QSFP-DD , Transceiver Modules

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



### Complete Guide to Pluggable Optical Transceivers -

Complete Guide to Pluggable Optical Transceivers Fundamentals & Core Concepts  
What are Pluggable Optical Transceivers?  
Pluggable optical





### Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot-pluggable



### Development Trends in Optical Module Technology:

Linear Drive Pluggable Optics (LPO) LPO technology simplifies optical module design by eliminating traditional DSP (digital signal processing)



### Linear Pluggable Optics (LPO) Market Expansion: Growth Outlook

The size of the Linear Pluggable Optics (LPO) market was valued at USD XXX million in 2023 and is projected to reach USD XXX million by 2032, with an expected CAGR of XX% during the forecast



### Pluggable Optics for Data Centers Business Analysis Report 2024

The global market for Pluggable Optics for Data Centers was estimated at US\$5.6 Billion in 2024 and is projected to reach US\$9.9 Billion by 2030, growing at a CAGR of 9.8% from 2024 to





## QSFP-DD Linear Pluggable Optics (LPO)

QSFP-DD LPO TRANSCEIVER DESIGNED FOR  
PCI<sup>E</sup>® GEN 5.0 DATA RATES Amphenol's QSFP-  
DD Linear Pluggable Optical (LPO) Transceiver



## Contact Us

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please visit:  
<https://syropy.com.pl>