

# **Data Center Interconnect Industrial Switch QSFP**





## Overview

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Supporting the continuing growth in the bandwidth demand and datacenter traffic driven by networking and AI/ML requirements, the QSFP-DD (Double Density) Interconnect System delivers 8 lanes with up to 28 Gbps NRZ or 56 Gbps-PAM4 (up to 400 Gbps aggregate) in a compact footprint. Amphenol's QSFP-DD high-speed connector family features a scalable, high-performance interconnect platform with 76 contacts on a 0. Our complete quad small form factor pluggable, QSFP connector portfolio includes QSFP+, zQSFP, QSFP28, QSFP56 and QSFP 112G. Our QSFP portfolio provides a simple upgrade path from 10 Gbps NRZ to 112Gbps PAM-4 — including four. Quad Small Form-factor Pluggable Double Density (QSFP-DD) solution that fits into high-density switch and router client ports for optical interconnect links Powered by Greylock and Delphi DSP ASICs, and silicon photonic integrated circuits (PICs) for an optimized co-packaged design with 3D.



## Data Center Interconnect Industrial Switch QSFP



### 400G OpenZR: A Leap for Next-Gen Data Center Interconnects

This is a major step for next-generation data telecommunications because it simplifies the network, increases fiber capacity, reduces footprint, and helps operators scale data center interconnects more

### Yingda QSFP 100G DR4 Transceiver for Data Centers

? Expanding Data Center Possibilities with Yingda's QSFP 100G DR4 Transceiver As 100G per lambda technology gains momentum, Yingda is proud to introduce our latest high-speed optical solution



### Products

Cisco Routed Optical Networking for DCI connects switches and/or routers in data centers over dark fiber by plugging industry-standard 400G

### Cisco Optics , Transform Your Network

Pluggable optics enable high data-rate transmission between servers, switches, and routers. Get performance-leading optical transceivers for any network with Cisco



### **Optical Modules Market Research Report 2034**

The market is witnessing increasing convergence as coherent pluggable modules in QSFP-DD form factors are deployed in data center interconnect (DCI)



### **SFP vs. QSFP: Differences, Use Cases, and How to Choose**

Choosing between SFP vs. QSFP transceivers is no longer just a question of bandwidth. In modern data centers, 5G transport networks, and industrial switching environments, the decision directly affects



### **Spine-Leaf-Fabric-Lösungen für moderne Rechenzentrumsnetzwerke**

Design deterministic, low-hop data center fabrics to host trading engines, risk analytics, and payment platforms with consistent microsecond-level latency. Isolate mission-critical environments on



### Modern Veri Merkezi Aglari için Omurga Yapragi Yapı Çözümleri

Design scalable spine leaf fabric for modern data centers with 25G 100G data center switches and 400G data center interconnect solutions.



### QSFP Double Density (DD) Interconnect System

Amphenol Commercial QSFP DD Interconnect System is ideal for communications, industrial and instrumentation, and data applications. Amphenol



### Spine Leaf Fabric megoldások modern adatközpont-hálózatokhoz

Isolate mission-critical environments on dedicated leaf pairs while using shared high-bandwidth spines to interconnect risk, pricing, and data feed services. Implement redundant spine-leaf pods across



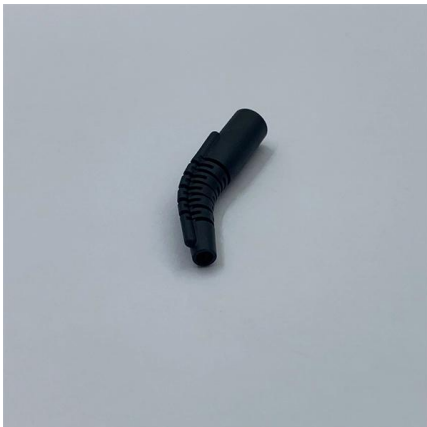
### Suluhisho za Vitambaa vya Majani ya Mgongo kwa Mitandao ya

Data Center Spine Switches For high-density spine layers in 100G/400G leaf-spine fabrics: 60 % IMEZIMWA N9K-C9316D-GX, Cisco Nexus 9316D Spine Switch, 16x400G QSFP-DD, Usanifu wa





The QSFP-DD interconnect system is comprised of a 76-position, 0.8mm pitch connector built for use in high speed serial applications. Each port supports up to 400 Gbps in aggregate over an 8 x 50 Gbps

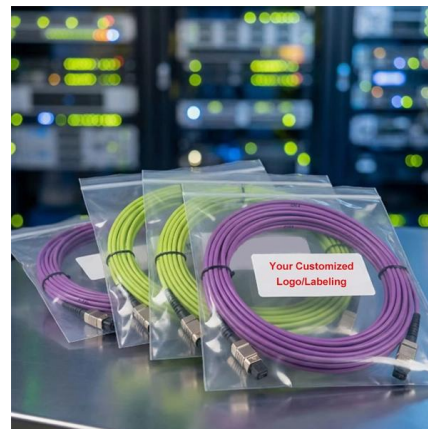


### **OEM 100G QSFP28 & 200G QSFP56, QSFP-DD, CFP2**

Scaling hyperscale cloud facilities, AI computing clusters, and Data Center Interconnects (DCI) demands more than just raw speed; it requires elite thermal management and zero-packet-loss signal integrity.

### **Spine Leaf Fabric Solutions for Modern Data Center Networks**

Design scalable spine leaf fabric for modern data centers with 25G 100G data center switches and 400G data center interconnect solutions.



### **Rozwiązania Spine Leaf Fabric dla nowoczesnych sieci centrów danych**

Design scalable spine leaf fabric for modern data centers with 25G 100G data center switches and 400G data center interconnect solutions.





## Optical Transceiver Market Size, Share, Industry Report

Optical Transceiver Market Key Takeaways  
Market Size & Growth 2025 Market Size: USD 13.4 Billion 2026 Market Size: USD 15.4 Billion  
2035 Forecast Market Size:



### Understanding 5G Communication Optical Transceivers:

Explore the role of optical modules in 5G communication, including their types, features, and deployment in fronthaul, midhaul, and backhaul networks.

### QSFP-DD 400G: The Definitive Guide to Hyperscale Interconnects,

For data center architects and infrastructure planners, QSFP-DD 400G represents the most strategic, cost-effective, and future-proof choice for building the high-speed, resilient fabric



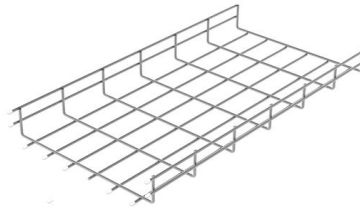
### Arista DCS-7280SR3AK-48YC8-FLX-F , 7280R3A 48-Port 50G Switch

The Arista DCS-7280SR3AK-48YC8-FLX-F is a high-performance 1RU data center switch router delivering 3.6 Tbps throughput and 1.35 Bpps forwarding rate. Designed for demanding leaf-spine



### QSFP-DD Connectors , High Speed I/O , Amphenol

Amphenol's QSFP-DD interconnect system delivers high-speed performance with exceptional signal integrity. With 76 contacts per port, eight



### QSFP-DD Connector System

Telecommunication and data center customers have increasing bandwidth requirements and, therefore, require high-density interconnects. QSFP-DD

### QSFP, QSFP+, zQSFP, QSFP28 and QSFP56, QSFP

Our complete quad small form factor pluggable, QSFP connector portfolio includes QSFP+, zQSFP, QSFP28, QSFP56 and QSFP 112G. We provide a large range



### QSFP-DD Product Family » Acacia

Quad Small Form-factor Pluggable Double Density (QSFP-DD) solution that fits into high-density switch and router client ports for optical interconnect links



## Generic Compatible 40GBASE-SR8 QSFP-DD

Description Generic Compatible 40GbE QSFP-DD SR8 PAM4 FEC Optical Transceiver Module (850nm 100m MMF MTP/MPO ) NADDOD Generic



## Spec Sheet

Siemon Interconnect Solutions offers a full line of interconnect assemblies for ultra-high-speed point-to-point applications in the data center. Siemon's SFP+, SFP 28, QSFP+, QSFP28 and hybrid

## QSFP Optical Module Planning for the Future: Key Trends 2026-2034

Explore the dynamic QSFP optical module market, forecast to reach \$14.7 billion by 2025 with a 4.5% CAGR. Discover key drivers, trends, and applications in high-speed networking and data



## Riesenia Spine Leaf Fabric pre moderné siete dátových centier

400G Data Center Interconnect Cables For short-reach and row-level 400G spine-leaf fabric links: 46 % OFF QDD-400-AOC25M, aktívny optický kábel Cisco 400G QSFP-DD, dlzka 25 m/rýchlost 400



## Contact Us

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For datasheets, pricing, or custom high-speed optical interconnect solutions, please visit:

<https://www.syropy.com.pl>