

Czech stock of hybrid optical and electrical cables QSFP-DD



Article Overview

QSFP-DD cables in the Czech Republic are available as both high-speed copper DACs and active optical cables (AOCs), supporting 400G and 800G data rates with hybrid electrical-optical options.

Overview of QSFP-DD Cables

QSFP-DD (Quad Small Form-factor Pluggable Double Density) cables are designed for high-bandwidth data center interconnects, doubling the number of lanes from 4 to 8 compared to QSFP28, enabling 400G and 800G aggregate speeds using 50G PAM4 signaling per lane (Amphenol) . They come in two main types:

- Direct Attach Copper (DAC): Electrical twinax cables for short-distance connections, typically up to 7 meters, offering low latency and power-efficient connectivity .
- Active Optical Cables (AOC): Convert electrical signals to optical for longer distances, supporting lengths from 1 meter up to 100 meters, with low latency and low power consumption . Hybrid solutions combine electrical and optical features, allowing flexible deployment in data centers where short-range copper and longer-range optical links are needed.

Key Features

- Bandwidth: 400G (8×50G PAM4) and 800G (16×50G PAM4) .
- Compatibility: Backward compatible with QSFP28 systems, plug-and-play, no sepa...

Article Content

Dec 24, 2025

QSFP-DD Optical Transceivers for High-Speed Connections

Quad Small Form-Factor Pluggable Double-Density (QSFP-DD) offers twice as many high-speed electrical interfaces as QSFP28

Aug 22, 2025

21.5m 400G QSFP-DD to 4 x 100G QSFP56 Active Optical Breakout

One end features a QSFP-DD connector that compatible Dell PowerSwitch Z9432F, while the other end provides four

May 28, 2026

Cisco 400G QSFP-DD Cable and Transceiver Modules Data Sheet

It provides a QSFP-DD-to-QSFP-DD copper direct-attach solution. QDD-400-CuxM cables are suitable for very short

Sep 06, 2025

QSFP-DD Optical Transceivers for High-Speed Connections

Cisco's comprehensive portfolio of QSFP-DD modules support 400G and 800G data rates across copper, multimode

Apr 07, 2026

QSFP-DD Transceiver Guide 2026: Complete 400G/800G Deployment

Active Electrical Cable (AEC) Active Optical Cable (AOC) Breakout Configurations 400G Deployment with QSFP-DD

Sep 15, 2025

Optical Transceiver: SFP vs SFP+ vs QSFP28 vs QSFP-DD

Compare SFP, SFP+, QSFP+, QSFP28, and QSFP-DD optical transceivers. Learn differences, speeds, and best use

Feb 12, 2026

QSFP DD Cable Assemblies | High Speed Input Output | Amphenol

These QSFP DD loopback cable assemblies are offered in 3 configurations - Passive Electrical, Passive Thermal and

Mar 01, 2026

SFP, SFP-DD, QSFP, QSFP-DD & OSFP Pluggable interconnects –

Primary applications are 1x100G SFP, 4x100G = 400G QSFP, 8x100G = 800G QSFP-DD and OSFP 8 lane Links.

Jul 27, 2025

QSFP+ optics and Cables

Active Optical Cables (AOC) QSFP+ to QSFP+ CablesActive Optical Cables are made for data transmission over copper cables.

Jun 08, 2026

QSFP-DD Linear Pluggable Optics (LPO)

Watch Amphenol's expert demonstrate the QSFP-DD Linear Pluggable Optics in action at the OFC 2025! Lightning

Feb 16, 2026

HPE Networking Comware 400G QSFP-DD to QSFP-DD 5m Active

HPE Networking Comware 400G QSFP-DD to QSFP-DD 5m AOC delivers high-speed 400G connections with low latency and

Oct 11, 2025

Differences Between QSFP-DD and QSFP+

QSFP-DD, as the smallest form factor for 400G transceivers, offers industry's highest bandwidth density while

Oct 21, 2025

QSFP and QSFP+ Interconnect Solutions

Molex's quad small form-factor pluggable (QSFP+) solution is designed for high-density applications. Components of

Mar 03, 2026

QSFP-DD Wiki and Comparison of QSFP-DD vs OSFP and QSFP

OSFP connectors and QSFP-DD connectors are made in 200G/400G/800G optical modules, and 400G DAC and

Apr 07, 2026

The Ultimate Guide to QSFP Cables: What You.

The Ultimate Guide to QSFP Cables: What You Need to Know? SFP vs. SFP+ vs. QSFP

Sep 30, 2025

QSFP DD Cable Assemblies | High Speed Input Output | Amphenol

Amphenol's QSFP DD (Double-Density) Loopback Modules are part of Amphenol's comprehensive QSFP DD

Apr 02, 2026

The Ultimate Guide to 400G QSFP-DD Transceivers and Cables

Discover the essentials of 400G QSFP-DD transceivers and cables, including optical modules, connectors, and MSA

Dec 08, 2025

Cisco QSFP-DD800 Transceiver Modules Data Sheet

The Cisco family of QSFP-DD800 modules leverages the cornerstone of high-speed, high-density pluggable form factors, QSFP. The

Aug 25, 2025

In-Depth Analysis of QSFP-DD 400G DAC Cables

This article explores the benefits and limitations of 400G QSFP-DD DAC Twinax Cables, including a comparison with

Jan 04, 2026

All About QSFP Cables, Connectors, and More

Amphenol is your industry leader when it comes to the innovation, design, manufacture, and supply of high

Dec 05, 2025

How to Achieve Interconnection Between OSFP and QSFP-DD Ports?

By deploying a 400G QSFP-DD SR4 module on the 400G switch and a 400G OSFP flat top SR4 module on the 400G

Sep 25, 2025

QSFP-DD Connectors, Cages and Cable Assemblies

QSFP-DD cages are fully backwards compatible, providing an upgrade path from existing QSFP solutions -

Apr 24, 2026

Molex QSFP: The Ultimate High-Density Cable Solution

Upgrade your network with Molex QSFP for high-density data applications. QSFP-DD interconnect system supports

Dec 15, 2025

QSFP Cables Explained 2025: Types, DAC vs AOC, and DC Use Cases

Learn about QSFP cables: QSFP+, QSFP28, QSFP56, QSFP-DD. Compare DAC vs AOC, speeds, lengths, and use cases in data

Jul 09, 2026

QSFP-DD CONNECTORS & CABLE ASSEMBLIES PRODUCT

High Speed 400G Pluggable I/O Solutions TE Connectivity's (TE) QSFP-DD (quad small form-factor pluggable double density)

Dec 14, 2025

100G QSFP28 / SFP-DD Modules and Cables FAQ | FS

FS's 100G connectivity solutions include copper cables and Active Optical Cables (AOC) for cost-effective short-distance options,

Jul 16, 2026

800G QSFP-DD To QSFP-DD Active Electrical Cable

800G(8x106.25) QSFP-DD PAM4 to 800G(8x106.25G)QSFP-DD PAM4 active electrical cable ideal for HPC, ML and data center

Jun 18, 2026

QSFP Cables Explained 2025: Types, DAC vs AOC,

This guide explains everything you need to know about QSFP cables: their types, how they

May 07, 2026

QSFP-DDVSQSFP+/QSFP28/QSFP56/OSFP:What Are

The QSFP-DD, heralded as the most compact form factor for 400G transceivers, is gaining

Jan 04, 2026

QSFP-DD (Double Density) Interconnect System and Cable Assemblies

QSFP-DD Interconnect System's 8-lane electrical interface transmits up to 28 Gbps NRZ or 56/112 Gbps PAM-4, up to 200, 400 or

Dec 18, 2025

400G QSFP-DD Cable and Transceiver Modules Data Sheet | FS

It provides a QSFP-DD-to-QSFP-DD copper direct-attach solution. They are suitable for very short links and offer a cost-effective

Oct 19, 2025

QSFP Cables Explained: DAC, AOC, Breakout, and

This guide explains what QSFP cables are, how direct attach copper (DAC) and active

Sep 14, 2025

QSFP Cables Explained 2025: Types, DAC vs AOC,

Learn about QSFP cables: QSFP+, QSFP28, QSFP56, QSFP-DD. Compare DAC vs AOC,

Oct 12, 2025

Quadwire® QSFP-DD Active Optical Cables | Coherent

Networking Quadwire® QSFP-DD Active Optical Cables Drive high-speed connectivity enabled by multiple

Contact Us

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