

Swedish Certified Linear Drive Pluggable Optical QSFP-DD



Overview

The STC-40028 from Swedish Telecom Opto's LPO Series is a high-performance 800 Gb/s QSFP-DD SR8 optical transceiver optimized for short-reach, high-bandwidth data-center and AI workloads. It offers over optical link, enabling scalable server disaggregation and efficient rack-to-rack interconnects ideal for AI/ML and rack-scale data center expansion. Please note that the above. The QSFP-DD OLS is a pluggable open line system solution that can be directly hosted on a Cisco router. The Cisco ® QSFP-DD Open Line System (QSFP-DD OLS) is a pluggable optical amplifier module that, together with the channel breakout options (described later), provides a simple yet powerful open. QSFP+ Universal transceiver for 40G operations over duplex multi-mode and single-mode fiber. Interoperable with IEEE 40GbE LR4 and LRL4 for easier migrations from 10G to 40G and to single mode fiber 100G QSFP pluggable transceivers and cables for high density 100G deployments. Optical. A Comprehensive Technical Guide to 400G/800G High-Speed Optical Networking Technology QSFP-DD (Quad Small Form-Factor Pluggable Double Density) represents a transformative advancement in optical transceiver technology, addressing the exponential growth in data center bandwidth requirements and the. Linear Pluggable Optics (LPO) replace the DSP inside the optical module with linear analog components, shifting signal processing to the host ASIC. This innovation delivers up to 30% lower power consumption, reduced latency, and simplified thermal management — perfect for high-density fabrics and.

Article Content

May 18, 2026

Eoptolink showcases 200G linear-drive pluggable optics

Eoptolink Technology, an advanced optical transceiver solutions provider, uses the OFC 2024 trade show to linear-drive pluggable optics (LPO),

Mar 23, 2026

QSFP-DD Optical Transceivers - MapYourTech

Linear Pluggable Optics (LPO): LPO eliminates retiming and DSP functions in short-reach applications, significantly reducing module power

Sep 04, 2025

Cisco QSFP-DD Pluggable Open Line System (QDD

Learn more about the Cisco QSFP-DD Open Line System (QDD OLS), a pluggable optical amplifier module that provides a simple yet powerful open line

Nov 18, 2025

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.

May 08, 2026

The Ultimate Guide to QSFP Cables

Explore the ultimate guide to QSFP cables. Learn QSFP types, differences from SFP, installation methods, and benefits for high-speed data

Feb 14, 2026

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

Jul 06, 2025

Eoptolink unveils 800G linear-drive pluggable optical

Eoptolink Technology Inc., Ltd. (SZSE: 300502) used OFC 2023 to launch 800G linear-drive pluggable optical transceivers (LPOs). The use of a

Jan 16, 2026

Arista Optics Modules and Cables

To accommodate an increasing spectrum of applications, Arista offers a wide choice of OSFP, QSFP-DD, QSFP, SFP, SFP-DD and DSFP transceivers and cables that comply with industry standards,

Sep 22, 2025

NeoPhotonics brings QSFP-DD, OSFP 400ZR modules

NeoPhotonics has announced that its QSFP-DD and OSFP 400ZR pluggable modules are generally available and are shipping to customers. These

Aug 15, 2025

Detailed Explanation of QSFP Optical Module Packaging

QSFP Package Fundamentals QSFP, short for Quad Small Form-factor Pluggable, is a four-channel small form-factor pluggable package, initially introduced by the

Mar 05, 2026

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.

Feb 05, 2026

LINK-PP LQD-CW400-LR4C 400G QSFP-DD LR4

The LINK-PP LQD-CW400-LR4C 400G QSFP-DD LR4 Transceiver offers 10km range, 400Gbps speed, and energy efficiency, ideal for data centers

Dec 03, 2025

Eoptolink Launches Innovative 800G Linear-drive

Eoptolink Launches Innovative 800G Linear-drive Pluggable Optics During OFC 2023 Chengdu, China, and Fremont, California, Mar 6, 2023 - Eoptolink

Sep 24, 2025

LPO and CPO: A Pivotal Shift and Synergistic Evolution

Optical transceivers, optical DSPs (oDSPs), and switch ASICs are the core components of data center optical interconnects. The emergence of LPO

Sep 20, 2025

Single-Lambda 100G Pluggable Optics Solution Overview

It enables QSFP-DD 400G pluggable optics that can interoperate with single-lambda 100G optics via fiber optic breakouts. For example, 400GBASE-DR4 modules, such as Cisco's QDD-400G-DR4-S,

Sep 13, 2025

Comprehensive Guide to QSFP - MapYourTech

Comprehensive Guide to QSFP Technology Comprehensive Guide to QSFP Technology Quad Small Form-Factor Pluggable Optical Transceivers

Apr 12, 2026

QSFP-DD Optical Transceivers Unlocking Faster

The QSFP-DD (Quad Small Form-Factor Pluggable Double Density) optical transceiver is a revolutionary advancement in high-speed data

May 28, 2026

STC-40028 | 800G QSFP-DD LPO SR8 Optical Transceiver

The STC-40028 from Swedish Telecom Opto's LPO Series is a high-performance 800 Gb/s QSFP-DD SR8 optical transceiver optimized for short-reach, high-bandwidth data-centre and AI workloads.

Jul 31, 2025

Linear Pluggable Optics (LPO) Europe | EU-Tested 400G/800G Modules

How is LPO different from DSP-based optics? LPO removes the DSP from the module, letting the host ASIC handle signal processing - resulting in lower power, lower latency, and simpler thermal design.

Jan 13, 2026

QSFP-DD Optical Transceivers - MapYourTech

QSFP-DD is an advanced hot-pluggable optical transceiver form factor that doubles the bandwidth density of traditional QSFP28 modules by

Aug 20, 2025

Linear Drive Pluggable Optics

Eoptolink offers a full portfolio of LPO optics for OSFP, OSFP-RHS, QSFP-DD and QSFP112 transceivers. At ECOC 2023, Eoptolink will be conducting an interop demo to highlight

Feb 11, 2026

Cisco QSFP-DD Pluggable Open Line System (QSFP-DD OLS)

Product overview The Cisco® QSFP-DD Open Line System (QSFP-DD OLS) is a pluggable optical amplifier module that, together with the channel breakout options (described later), provides a simple

Feb 05, 2026

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

Aug 06, 2025

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

Jun 20, 2026

What is QSFP: QSFP Working Principle and Design

What is a QSFP Transceiver? QSFP stands for Quad Small Form-factor Pluggable, which is compliant with IEEE Std 802.3 ba and SFF-8436

Apr 30, 2026

Pluggable Coherent Optics for Routed Optical Networking At-a-Glance

The Cisco portfolio of 400G Digital Coherent QSFP-DD pluggable optical modules benefit from 7-nm manufacturing processes and innovations in silicon photonic technology.

Contact Us

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