# Swedish Active Optical Module 800G



## Overview

The STC-40027 from Swedish Telecom Opto's LPO Series is an advanced 800 Gb/s OSFP SR8 optical transceiver designed for short-reach, high-density data-centre and AI fabric applications. It boasts the extraordinary ability to process 8 billion bits per second, more than doubling the. The 800G single-mode optical transceiver is suitable for long-distance optical fiber transmission and can cover a wider network range. These three standards share similar internal architectures, featuring 8 Tx and 8 Rx, with a single-channel rate of 100 Gbps, and requiring 16 optical fibers. With a transmission rate as high as 800Gbps, they can meet the high bandwidth requirements of large-scale data centers, cloud computing and high-performance computing.

## Article Content

800G OSFP LPO SR8 | EU-Tested Low-Power Short-Reach 800G

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800G Optical Modules Explained: Standards, Types & Use Cases

Discover everything about 800G optical modules—standards, packaging, types & applications. Learn how they power AI, HPC & next-gen data centers.

Demystifying 800G Transceiver: Types, Applications, and FAQs

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In this article, we will provide an overview of the various types of 800G optical modules, discuss their applications, and address some FAQs to help you make a better choice when selecting

800G Optical Transceiver Modules | Broadex Technologies

800G optical transceivers are a new generation of high-speed optical transceivers. With a transmission rate as high as 800Gbps, they can meet the high bandwidth requirements of large-scale data

800G Client Optics in the Data Center

Developments in three distinct areas are needed for 800G deployment: optical modules and direct attach copper (DAC) cables, switch ASICs, and 800GE standardization. Not all these need to be fully

800G-FR4 – OSFP224 2km Transceiver

The STC-800G-FR4 OSFP224 is a high-bandwidth optical transceiver designed for 800Gbps transmission over single-mode fiber (SMF) for distances up to 2 kilometers.

100G to 1.6T Optical Module PHY Product Selection Guide

Copper PHY Product Selection Guide Broadcom''s Active Copper PHY portfolio enables DAC cable providers to build very low insertion-loss profile, ultra-low latency, ultra-low power cables for

800G: An Inflection Point for Optical Networks

This standardized solution for 800G ZR pluggable modules, powered by coherent DSP technology, allows data centers to achieve unprecedented data

800G Optical Transceiver Modules The Most detailed

There are two main package types for 800G optical modules: QSFP-DD and OSFP. Each has its own advantages and disadvantages, and

The Importance of 800G Optical Modules in AI Wave

Explore the continuous development and increasing bandwidth requirements of 800G optical modules, their support for larger-scale

High-Speed Opto Modules

Discover high-performance Opto Modules for reliable and fast data transmission. Explore our range of optical transceivers designed for seamless communication NS - EN

Exploring the Benefits and Applications of 800G QSFP-DD Optical Modules

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The 800G optical transceiver is a high-speed optoelectronic conversion device used for achieving 800Gbps data transmission. It adopts small form-factor packaging types, such as QSFP

Demystifying 800G Transceiver: Types, Applications, and FAQs

As the demand for faster data transmission continues to surge, 800G transceiver has gained significant attention due to its high bandwidth, fast transmission rates, exceptional

800G-2xDR4 OSFP112 LPO Optical Transceiver Module

The 800G-2xDR4 OSFP112 LPO Optical Transceiver Module uses advanced silicon photonics without DSP to deliver ultra-high-speed data transmission. This module is designed for modern data centers

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

Each STC-40028 module undergoes independent testing in European laboratories to validate power consumption, thermal performance, and host interoperability. EU validation ensures predictable,

800G QSFP-DD Active Optical Cable Data Sheet | FS

The 800G QSFP-DD Active Optical Cable is designed for 800 Gigabit Ethernet links over OM4 multimode fiber. This cable is compliant with IEEE 802.3ck, QSFP-DD HW Specification Rev 6.3,

OSFP 800G

The 800G OSFP modules are state-of-the-art in broadband communications. With a remarkable data transmission capacity of 800 Gbps, these modules offer

800G AOC (Active Optical Cables) Archives

Main Causes of Optical Module Failure and Protective Measures May 6, 2026 Optical modules must be handled with standardized procedures during application, as any non-complian...

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