

1G QSFP28 optical module for backbone network



Overview

The QSFP28 SR4 transceiver is a high-performing module for SR optical links over OM4 MMF, and is ideal for short-range, multi-lane data communication, and interconnects applications. The QSFP28 LR4 module is designed for extended reach and supports links up to 10km. The QSFP28 (Quad Small Form-Factor Pluggable 28) transceiver is designed for high-speed data transmission and typically supports data rates of 25 Gbps per lane. Since QSFP28 modules aggregate multiple lanes, they are primarily intended for applications with higher data rates, such as 100 Gigabit. Browse optical transceivers from Pivotal Optics including SFP, SFP28, QSFP28 & QSFP-DD modules. 1G to 400G solutions for data centers & networks. Both short range and long-range transceiver. Discover how QSFPTEK helped PacketStream engineer a reliable 200G DWDM network over 36km using 25G optics, overcoming 100G module scarcity. Provide IPRO with a. How it works: Doubles the electrical contacts of the QSFP28. For 800G, it utilizes advanced PAM4 signaling to achieve 100 Gbps per lane. Use Case: SFP28 supports 25 Gbps per lane and are physically identical to SFP and SFP+.



Article Content

Does QSFP28 support 1g?

While the QSFP28 module itself is not designed for 1 Gigabit Ethernet (1GbE) applications, there are cases where network devices with QSFP28 ports may be backward

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

This article provides a comprehensive comparison of mainstream optical transceivers, including SFP, SFP+, QSFP+, QSFP28, and QSFP-DD. It explains their technical differences,

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Compare SFP, SFP+, SFP28, QSFP+ and QSFP28 in this 2026 selection guide. Learn where each form factor fits, decision rules, cost and risk factors, and how to choose 25G/100G optics

What is QSFP28? Guide to 100G Ethernet | NetAlly

This guide explains what QSFP28 is, how it works within the 100G Ethernet standard, and what network engineers should consider when planning upgrades, validating links, or

QSFP28 Transceiver: Complete 100G Connectivity Guide (2026)

QSFP28 transceiver guide covering module types, pricing, compatibility, and deployment. Learn how to choose, deploy, and troubleshoot 100G QSFP28 optics.

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Short-range modules are beginning to incorporate silicon-based modulators to achieve higher bandwidth, while long-range modules are advancing the on-chip integration of coherent

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An SFP (Small Form-factor Pluggable) is a compact, hot-pluggable transceiver module that allows networking equipment — including switches, routers, servers, and media converters — to

A Complete Guide to 1x9 Optical Transceiver Module

1x9 optical module applications include industrial automation, telecom backhaul, and legacy network upgrades for reliable, cost-effective data links.

400G Optical Modules Explained: SR4 Vs. DR4 Vs.

Key differences between SR4, DR4, FR4, and LR4 400G optical modules. Expert advice from Asterfusion engineers to optimize your data center

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