

Imported SFP optical module QSFP28



Article Overview

QSFP28 (Quad Small Form-Factor Pluggable 28) modules are high-speed 100G optical transceivers that support four 25G lanes, offering flexible deployment for data centers and enterprise networks.

Overview

QSFP28 modules are compact, hot-swappable optical transceivers designed for 100 Gigabit Ethernet (100GbE). The "28" indicates a maximum signaling rate of 28 Gbps per lane, while the four lanes aggregate to deliver 100 Gbps payload using 25G NRZ encoding . These modules maintain the same mechanical dimensions as QSFP+ (40G) modules, allowing high port density and backward compatibility with QSFP+ ports, though QSFP28 modules cannot operate in legacy QSFP+ ports .

Module Types and Reach

Imported QSFP28 modules come in various optical types depending on distance and fiber type:

- SR4 (Short Reach): Uses 850nm VCSELs over multimode fiber (OM3/OM4) with MPO-12 connectors, supporting up to 70m on OM3 and 100m on OM4 .
- LR4 (Long Reach): Single-mode DFB lasers over duplex single-mode fiber, typically supporting distances up to 10 km.
- DR (Direct Reach): Single-wavelength PAM4 modulation over single-mode fiber, supporting up to 500m with duplex LC connectors .
- ZR (Extended Reach): Coherent optics module capable of 80 km over dark fiber a...

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A New Generation of 100G Pluggable Optics Starts with

Learn how to future-proof your investment as the optics industry transitions to new 100G

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100Gb/s QSFP28 Transceivers | Optical Interconnect

Amphenol's 100G QSFP28 optical modules include SR4, AOC, AOC break out, CWDM4,

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QSFP28-100G-LR4: QSFP+ 100G LR4 Optical Transceiver

Product description The QSFP-10010-LR4 is a long range single-mode 100G QSFP28 optical module compatible with the 100GBase

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SFP, SFP+, SFP28, QSFP+ and QSFP28 optical modules

In conclusion In general, SFP, SFP+, SFP28, QSFP+ and QSFP28 optical modules are different in transmission speed,

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SFP+, SFP28, QSFP+, QSFP28, QSFP56, QSFP-DD, QSFP112 vs

Initial Published: February 19, 2022 The optical transceiver plays a crucial role in modern fiber networking. Various

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Exploring the Differences between SFP, SFP+, SFP28, QSFP, and QSFP28

Explore the differences between SFP, SFP+, SFP28, QSFP, and QSFP28 transceivers in the network industry. Learn

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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+,

Contact Us

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