

# Selection Guide for Metro-Grade Optical Routers QSFP28



## Overview

This guide provides a systematic selection process to help you choose the right QSFP28 module every time. You will learn how to verify form factor compatibility, match fiber and distance requirements, validate switch compatibility, consider thermal constraints, and avoid. This guide provides the definitive roadmap for selecting, deploying, and troubleshooting QSFP28 transceivers while bypassing the painful trial-and-error phase. The modules arrived on time, passed visual inspection, and seated perfectly in the switch ports. It was only then that they discovered the cabling contractor had installed OS2 single-mode fiber. When you pick a 100G QSFP28 transceiver, think about what your network needs. Choosing QSFP28 optical transceivers that fit your system helps. 25G SFP28 is the new access/server baseline; deploy it for port density and long-term value. 100G QSFP28 is the mainstream spine/aggregation choice; design for 25G→100G migration. Selection is driven by power, thermal limits, cabling, and O&M risk—not speed alone. SFP-family and QSFP-family. The term QSFP28 stands for Quad Small Form-factor Pluggable 28. Unlike older CFP. In this guide, we provide a comprehensive, practical overview of 100G QSFP28 modules, covering their working principles, module types, key specifications, typical applications, and a step-by-step selection framework to help you make confident, informed decisions for your network.



## Article Content

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### 100G Optical Module Selection Guide: Advantages and Types of QSFP28

Explore the QSFP28 100G optical module, a vital component for high-speed network connections. Discover its unique features, advantages, and various types to meet diverse transmission needs.

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The most cost-effective and future-proof architectures consistently combine QSFP28 aggregation with SFP28 access, leveraging breakout cables and mixed-rate optics to maximize port

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100Gb/s QSFP28 Transceivers

COMPLIANT WITH THE SFF-8636, IEEE802.3BM OR ITU-T G959.1 Amphenol's 100G QSFP28 optical modules include SR4, AOC, AOC break out, CWDM4, LR4, ER4 Lite, ER4 and ZR4 series, which

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How to Choose SFP Module for Compatibility, Speed,

Learn how to choose the right SFP module based on compatibility, speed, fiber type, wavelength, and distance. Practical guide for engineers and IT

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### 100G QSFP28 Transceivers: Types, Specs and How to Choose

In this guide, we provide a comprehensive, practical overview of 100G QSFP28 modules, covering their working principles, module types, key specifications, typical applications, and a step-by-step

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Choosing QSFP28 optical transceivers that fit your system helps your network work well and keeps your money safe. This definitive guide cuts through

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

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### Optical Transceiver Selection Guide for ISPs

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This guide provides a systematic selection process to help you choose the right QSFP28 module every time. You will learn how to verify form factor compatibility, match fiber and distance

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QSFP28 module types explained: SR4, LR4, CWDM4, ER4, PSM4, and emerging single-lambda options. Learn how to choose the right 100G transceiver.

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## Contact Us

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