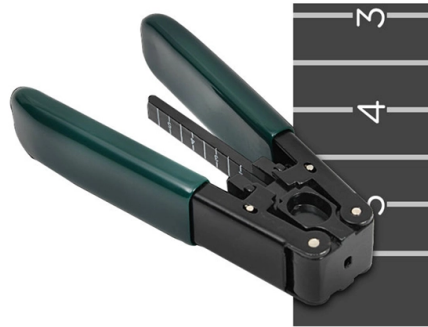


Performance Comparison of Uganda SFP Optical Module QSFP28



Overview

This guide explains the key characteristics, speed capabilities, physical designs, and typical deployment scenarios of SFP, SFP+, SFP28, QSFP+, and QSFP28 optical modules. These optical module standards have evolved alongside the rapid growth of cloud computing, data centers, and high-capacity enterprise networks. Costs rise, compatibility doubts creep in, and deadlines never move. This article gives you a plain-English, buyer-first guide to pick the right transceiver family for 1G/10G/25G/100G without vendor lock-in. Choose SFP (1G) for legacy access and storage, SFP+ (10G) for ubiquitous TOR/server links. Compare SFP, SFP+, SFP28, QSFP+, and QSFP28 transceiver modules — covering SFP module types, SFP fiber connector interfaces, data rates, reach options, and how to choose the right optical module. SFP runs at 1 Gbps, SFP+ at 10 Gbps, and QSFP28 at 100 Gbps (4×25G). 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. They are different optical transceiver types, but all are hot-pluggable network interface modules that connect a network switch and other networking devices (such as a server or media converter) for data transmission.

Article Content

SFP SFP+ SFP28 QSFP+ QSFP28: Fiber Module Form Factor Guide

Learn the differences between SFP, SFP+, SFP28, QSFP+, and QSFP28 optical module form factors, including speeds, interfaces, and deployment scenarios.

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Compare SFP, SFP+, SFP28 and QSFP28 transceivers by speed, distance, fiber type and cost. Learn how to choose the right module for data centers in 2025.

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SFP Module Guide: SFP vs SFP+ vs SFP28 vs QSFP and How to ...

Learn what an SFP module is, how SFP, SFP+, SFP28, and QSFP differ, and how to choose the right module for speed, distance, fiber type, and compatibility.

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