

South African Telecom-Grade Router QSFP



AI Overview

Telecom-grade QSFP modules in South Africa are available in 40G and 100G variants, compatible with major network vendors, and can be sourced from local suppliers like Netlumis and Netshield.

Overview of QSFP Technology

QSFP (Quad Small Form-Factor Pluggable) transceivers are hot-pluggable optical modules used in high-speed data and telecom networks. They combine four independent electrical channels into a single compact form factor, enabling scalable bandwidth from 40 Gbps to 1.6 Tbps depending on the generation (QSFP+, QSFP28, QSFP56, QSFP-DD, QSFP112) and modulation technology (NRZ or PAM4) for Ethernet, InfiniBand, Fibre Channel, and SONET/SDH networks. QSFP28 modules, for example, support 100 Gbps aggregate bandwidth, while QSFP56 and QSFP-DD can reach 200-400 Gbps.

Common QSFP Modules in South Africa

- 40G QSFP+: Supports 4 lanes of 10 Gbps each, suitable for short-haul data center interconnects and metro networks. Variants include 40GBASE-SR4 (MMF, 100-400m), 40GBASE-LR4 (SMF, 10 km), and active optical cables for direct connections.
- 100G QSFP28: Provides 100GBase-SR4 throughput over OM4 multi-mode fiber up to 100m, with MPO connectors and digital optical monitoring (DOM) for real-time performance tracking. Extended temperature models operate from -20°C to +85°C,...

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