

Article Overview

10G QSFP optical modules for New Zealand are available as RoHS-compliant SFP+ and QSFP+ transceivers, supporting both fiber and copper connections with distances up to 400m for multimode fiber and 30m for copper.

Overview of 10G QSFP Modules

10G QSFP (Quad Small Form-factor Pluggable) modules are high-speed optical transceivers designed for 10 Gigabit Ethernet networks. They are available in fiber (SFP+ or QSFP+) and copper (10GBASE-T) versions, supporting both short-range and long-range connectivity . RoHS compliance ensures that these modules meet environmental standards by restricting hazardous substances, making them suitable for deployment in New Zealand and other regions with similar regulations .

Key Types and Features

- o Fiber Optic QSFP+ Modules: Support multimode (MMF) and single-mode fiber (SMF) with link distances ranging from 300m to 400m on OM3/OM4 MMF and up to 10km or more on SMF. They use LC duplex connectors and are hot-swappable for easy installation .
- o Copper QSFP+ Modules (10GBASE-T): Use RJ45 connectors and support link lengths up to 30m over Cat6/Cat6a cabling. These modules are compliant with IEEE 802.3an and IEEE 802.3az standards .
- o Active Optical Cables (AOC): Integrated optical modules with fiber in a single cable assembly, supporting distances up to 100m and providing low power consumption, high density, and simplified deployment .
- o Direct Attach Copper (DAC) Cables: Passive or active twinax cables for short-range connections (0.5m to 10m), offering low latency, zero power consumption, and cost-effectiveness for data centers .

Applications

- o Data Centers: High-density interconnects between servers, switches, and storage devices.
- o Enterprise Networks: Campus backbone and high-speed aggregation links.
- o High-Performance Computing (HPC): Low-latency connections for supercomputing clusters.
- o Telecom and ISP Networks: 10G Ethernet links for metro and backbone networks.

Suppliers and Availability in New Zealand

- o QSPTEK: Offers Cisco, Ubiquiti, and Mikrotik compatible 10G SFP+ and QSFP+ modules, including RoHS-compliant copper and fiber transceivers .
- o 10Gtek: Provides a wide range of QSFP+ and SFP+ transceivers, DAC and AOC cables, all CE, FCC, and



New Zealand RoHS QSFP Optical Module 10G

RoHS certified, suitable for data centers and HPC applications .

o FS.com: Supplies 10G SFP+ modules with fast shipping and enterprise-grade support .

Considerations for Selection

o Compatibility: Ensure the module matches the switch or server vendor (Cisco, Ubiquiti, Mikrotik, etc.).

o Distance and Fiber Type: Choose MMF for short-range and SMF for long-range links.

o Power and Latency: DACs are ideal for low-latency, short-range connections; AOCs are better for longer distances with low power consumption.

o RoHS Compliance: Verify that the module is RoHS-certified to meet environmental regulations in New Zealand.

By selecting the appropriate RoHS-compliant 10G QSFP module, organizations in New Zealand can achieve reliable, high-speed network connectivity while adhering to environmental standards .

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MJ-QSFP-SFP10G is a Miljet QSFP+ to SFP or SFP+ Adapter (QSA) module, offering 10 Gigabit Ethernet and 1 Gigabit Ethernet

How 40G QSFP+ optical transceivers boost performance in data centers and telecom networks. Learn about types, use cases, and

QSFP Ethernet Cables / Networking Cables are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for

DAC Twinax Cable Maker. CE, FCC, RoHS, ISO9001 Certified. Professional Manufacturer focusing on SFP+ Cables, QSFP+

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