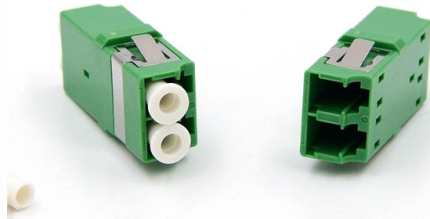


Export Tunable Optical Module QSFP28



Article Overview

QSFP28 Active Optical Modules (AOCs) are high-speed 100G optical interconnects designed for data center and high-performance computing applications, supporting flexible lengths, low power consumption, and hot-swappable deployment.

Overview of QSFP28 AOCs

QSFP28 stands for Quad Small Form-factor Pluggable 28, where “Quad” indicates four lanes, each capable of 28 Gbps, yielding a raw throughput of 112 Gbps, with standard 100G Ethernet signaling using 4×25G NRZ encoding . Active Optical Cables (AOCs) convert these electrical lanes into optical signals over multimode or single-mode fiber, providing reliable high-speed connectivity beyond the reach of Direct Attach Copper (DAC) cables .

Key Features

- Data Rate: Supports up to 100 Gb/s per module .
- Cable Lengths: Typically ranges from 0.5 m to 100 m, depending on the variant .
- Standards Compliance: IEEE 802.3bm, SFF-8636, ITU-T G.959.1, and MSA compliant .
- Connector Types: LC or MPO/MTP optical ports for multimode or single-mode fiber .
- Power and Density: Low power consumption and compact form factor suitable for high-density racks .
- Hot-Swappable: Enables easy installation and replacement without shutting down equipment .
- Digital Diagnostic Monitoring (DDM): Provides real-time monitoring of temperatur...

Article Content

QSFP28 100GbE C-Band DWDM 50Ghz

The QSP-100COTU-H2xL-8636 QSFP28 module supports the diagnostics and management inter-face specified in the Specification

100G ZR QSFP28 Digital Coherent Optics (DCO) Transceiver

The Steelerton DSP is the inaugural purpose-designed DSP for 100G ZR applications, fine-tuned for minimal power dissipation and

100ZR QSFP28 Coherent Transceiver

100ZR QSFP28 Coherent Transceiver Compared to traditional intensity modulation-direct detect (IM-DD)-based optics, the 100ZR

Understanding QSFP28 Optical Modules: A Comprehensive Guide

Understanding QSFP28 Optical Modules: A Comprehensive Guide Abstract: In today's rapidly evolving technological landscape, high

Intel® Ethernet QSFP28 Optic

Overview Intel® Ethernet QSFP28 Optics are an excellent choice for fiber systems in high-speed communications equipment. Both

QSFP-10000-SR4-datasheet

An optical fiber ribbon cable with an MTP/MPO connector can be plugged into the QSFP28 module receptacle. Proper alignment is

Cisco QSFP28 100G ZR Digital Coherent Optics Module Data Sheet

This DCO module is tunable across C-band. The module is compatible with widely deployed ports of QSFP28 100G and 100GBASE

100G Coherent QSFP28 C-band Tunable 80km DCO Transceiver

Description The 100G ZR QSFP28 DCO transceiver supports 100G transmission over distances up to 120km (dispersion limited,

TQSFP28-ZR (I)

The TQSFP28-ZR (I) is a tunable QSFP28 optical transceiver module designed for 100G Ethernet applications. Operating in the C

QSFP28 Optical Transceiver 100 Gigabit Ethernet for up to 10 km Reach

LQ2 Series The Lumentum 100G QSFP28 LR4 Optical Transceiver is a full duplex, photonic-integrated optical transceiver that

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.gmarkconstruction.co.za>

Email: sales@gmarkconstruction.co.za

Phone: +31-6-15-38-72-94

Address: Herengracht 456, 1017 BS Amsterdam, Netherlands

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