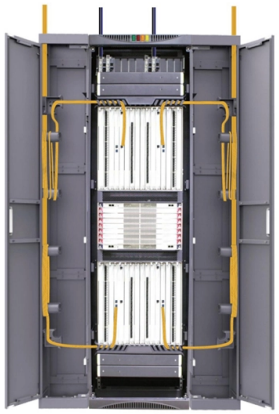
Jordanian Multimode Fiber Optic Transceiver Models



Overview

Fiber Optic Cable | CSE D-Link DEM-311GT 1-port SFP SX MM Fiber Transceiver-Up to 550m Up to 550m, Support 3.3V powerSmall Form factor Pluggable (SFP)Multi.

Key Takeaways

Multimode fiber optic transceivers compatible with OM1–OM5 fibers include SFP, QSFP, and QSFP-DD modules supporting speeds from 1G to 400G, suitable for short- to medium-range data center and enterprise networks.

Multimode Fiber Types and Compatibility

Multimode fiber (MMF) is widely used for short- to medium-distance connections, typically within buildings or campuses, with core diameters of 50–100 µm. The main types are OM1, OM2, OM3, OM4, and OM5, each supporting different data rates and distances: OM1 (62. 5/125 µm, orange jacket): LED-based, suitable for 1G–10G Ethernet up to ~300 m.

OM2 (50/125 µm, orange jacket): LED-based, supports 1G–10G Ethernet up to ~550 m. OM3/OM4 (50/125 µm, aqua jacket): Laser-optimized for VCSELs, supports 10G–100G Ethernet, distances up to 300–400 m (OM3) and 400–550 m (OM4). OM5 (50/125 µm, lime or aqua jacket): Wideband MMF supporting short-wavelength division multiplexing (SWDM) for 40G–400G Ethernet over 850–953 nm wavelengths.

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Common Multimode Transceiver ModelsSFP (Small Form-factor Pluggable)Speeds: 1G–25GDistance: 100 m–550 m depending on fiber typeWavelength: 850 nm (VCSEL)Use: Connecting switches, routers, and servers in enterprise networksConnector: LC duplexNotes: Hot-pluggable, widely compatible with OM3/OM4 fibers.

QSF

P (Quad Small Form-factor Pluggable)Speeds: 40G (4x10G lanes)Distance: 100 m–150 m on OM3/OM4 fibersWavelength: 850 nm for SR4, supports breakout to 4x10GUse: Data center uplinks, high-speed aggregationConnector: MPO/MTP or LC breakout. QSFP-DD (Quad Small Form-factor Pluggable Double Density)Speeds: 400G (8x50G lanes)Distance: 100 m on OM4/OM5 fibersWavelength: 850 nm SWDM for multi-lane operationUse: High-density data center interconnectsConnector: MPO/MTP, hot-pluggable, RoHS compliant.

Example High-

Performance ModulesJTOPTICS 40GBASE-SR4 QSFP+: 150 m over multimode fiber, 4x10. 3125 Gbps lanes, digital diagnostics via I2C. Fiber24 QDD-400G-SR8 QSFP-DD: 400G over 100 m multimode fiber, suitable for OM3/OM4/OM5, hot-pluggable, RoHS compliant.

Deployment Considerations

Connector Type: LC for SFP, MPO/MTP for QSFP/QSFP-DD. Fiber Type Matching: Ensure transceiver supports the installed OM fiber type. OM3/OM4 are standard for modern 10G–100G networks; OM5 is recommended for SWDM 400G.

Maintenance: Keep connectors clean, avoid scratches, and maintain consistent ambient temperature and humidity. Compatibility: Verify switch/router SFP/QSFP slot compatibility and support for electronic dispersion compensation (EDC) if using older OM1/OM2 fibers.

Availability in Jordan

While specific Jordanian brands are not listed, these transceivers are typically available through regional distributors and global suppliers such as Mouser Electronics, Fiber24, and JTOPTICS, which ship internationally and support enterprise and data center deployments.

Local I

T and telecom vendors in Amman and other major cities often stock compatible SFP, QSFP, and QSFP-DD modules for multimode fiber networks.

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Article Content

Fiber Optic Cable | CSE

D-Link DEM-311GT 1-port SFP SX MM Fiber Transceiver-Up to 550m Up to 550m, Support 3.3V powerSmall Form factor Pluggable (SFP)Multi-Source Agreement (MSA) specific

Media Converter | CSE

D-Link DMC-300MSC Media Converters 10/100Base-TX Fast Ethernet Twisted-pair to 100Base-FX Fast Ethernet Fiber 1310nm Multi-mode Fiber JOD 35 00 Wishlist Compare

jordanian-gigabit-multimode-optical-module-manufacturer

European manufacturer of high-quality passive fiber optic equipment and FTTH network components, operating since 1992. We specialize in providing reliable, certified solutions for...

Optics and Transceivers | Fiber Optical Transceivers

FS offers a growing portfolio of optical transceivers, with speed range from 100M, 1G, 10G, 25G, 40G, 50G, 100G, 200G, 400G to 800G and beyond. The fiber optic transceiver modules can work in any

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Everything You Need to Know About Fiber Transceivers

Single-mode fiber optic cables have lower attenuation rates and can transmit signals over longer distances than multimode fiber optic cables.

Different types of transceivers(GBIC, SFP, SFP+, SFP28, QSFP,

Understand different types of transceivers such as GBIC, SFP, SFP+, SFP28, QSFP, QSFP+, QSFP28 and CFP with its features and applicability.

Multimode Transceivers – Primus Cable

Multimode Transceiver Modules are an essential piece of your fiber or copper network. Fiber optic transceivers or optical modules as often called, connect ethernet and optical cords together. LC

Cisco Optics | Transform Your Network

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Get the highest quality, performance-leading optical transceivers for any network architecture. Find the transceiver model to fit your network.

Selecting Fiber Optical Transceivers

When dealing with a multimode transceiver there is a trade-off between the speed and distance. Single-mode vs Multi-mode Deciding on the type of fiber to work with is arguably the most important factor

Multimode Fiber Optic Transceivers

Tripp Lite by Eaton''s multimode fiber optic transceivers are functionally identical to OEM brands, meeting or exceeding MSA standards.

Optical Transceiver Interoperability and Compatibility Guide

Countless compatible fiber optic transceivers have been employed in network deployments. However, there still exists the concerns about the quality, interoperability, and

Comprehensive Guide to Optical Transceiver Classifications and

Explore LINK-PP''s full range of optical transceivers here. Conclusion Optical modules can be classified by data rate, form factor, transmission distance, and fiber type. Proper selection

Guide To Fiber Transceiver Types

Do you understand the different fiber transceiver types and how each one works? Equal Optics explains them so you can choose the best one for your

Fiber Optic Transceivers Compatibility And

Fiber optic transceivers are indispensable devices in modern communication networks, used to convert electrical signals into optical signals

SEL-2800 Fiber-Optic Transceivers | Schweitzer Engineering

Fiber-Optic Link— Establish EIA-232 communication between devices over a fiber-optic link, 1 to 500 meters long, by connecting a pair of transceivers and an SEL-C805 Multimode 200 µm Core Fiber

TXM431-SR | 10GBase-SR SFP+ LC Transceiver | TP-Link

What This Product Does The TXM431-SR is designed to extend transfer distances based on 10Gbps Ethernet connectivity. It is a 10GBASE-SR high performance 850nm multi-mode SFP+ transceiver. It

What Are Multimode Transceivers and Where Are They Used?

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Chapter 1: The Nitty-Gritty: What Are Multimode Transceivers? Transceivers are devices capable of both transmitting and receiving data. They convert electrical signals into optical signals for

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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