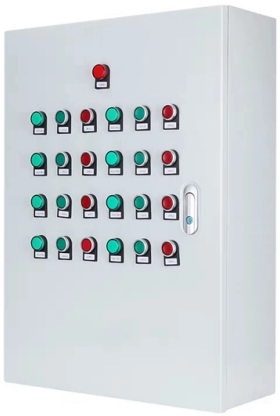
Libyan manufacturer of single-fiber bidirectional 1G



Overview

libya-single-fiber-bidirectional-2 Manufacturer/ProducerOptical Fiber Manufacturing. Lightmax SL is a company founded in 2007, specialized in the manufactu.

Key Takeaways

Currently, there is no publicly documented Libyan manufacturer of 1G single-fiber bidirectional (BiDi) optical modules. Overview of 1G BiDi Optical Modules1G BiDi SFP transceivers are single-fiber, bidirectional optical modules that allow both transmitting (TX) and receiving (RX) signals over a single strand of single-mode fiber using wavelength division multiplexing (WDM) technology. Common wavelength pairs include 1310/1490 nm or 1310/1550 nm, supporting distances from 10 km to 40 km for typical network deployments.

These modules are widely used in point-to-point links, metropolitan area networks (MANs), and enterprise backbones.

Key Technical Features

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Form Factor: SFP (Small Form-factor Pluggable)Connector Type: LC or SC simplexData Rate: Up to 1. 25 Gbps for 1G BiDi modulesCompliance: IEEE 802. 3z Gigabit Ethernet, SFP Multi-Source Agreement (MSA)Monitoring: Some modules include Digital Diagnostic Monitoring (DDM) for real-time performance tracking Transmission Distance: Typically 10–40 km depending on wavelength and fiber quality Global SuppliersWhile no Libyan manufacturers are listed, several international suppliers provide 1G BiDi SFP modules compatible with standard network equipment: Dezinic Solutions: Offers 1G BiDi SFP modules with 1310/1550 nm wavelength pairs for up to 3 km.

LSOLIN

K: Provides high-performance 1G BiDi SFP transceivers with 1310/1490 nm wavelengths, supporting distances up to 20 km. Smartoptics: Supplies BiDi SFP modules for FTTH and enterprise networks, supporting single-mode fiber and multiple rates.

Considerations for Procurement

Compatibility: Ensure the module matches your network switch or router SFP slot and supports the required TX/RX wavelength pair. Distance Requirements: Match the module's reach to your fiber link budget. Supplier Reliability: Evaluate vendor track record, product lifecycle, and support options.

Regulatory Compliance: Verify modules meet international safety standards (e.g., IEC/EN 60825-1 for laser safety),.

Conclusion

At present, there is no verified Libyan manufacturer of 1G single-fiber BiDi optical modules. Organizations in Libya typically source these modules from international suppliers such as Dezinic Solutions, LSOLINK, or Smartoptics, which provide tested, MSA-compliant transceivers suitable for local network deployments. For local procurement, contacting regional distributors or telecom equipment resellers may help identify available stock and support options.

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Article Content

libya-single-fiber-bidirectional-2 Manufacturer/Producer

Optical Fiber Manufacturing. Lightmax SL is a company founded in 2007, specialized in the manufacturing and supply of products for passive optical fiber networks.

1G SFP Transceivers | Mini-GBIC SFP Modules

FS gigabit ethernet transceiver solutions provide fibre or copper options including 1000BASE-SX, 1000BASE-LX/LH, 1000BASE-T etc., from 100m to 160km, for 1G switches, routers, servers, NICs

1G SFP BXU Bi-Directional, Tx1490/Rx1550nm, 120km,

It has a reach of up to 120km over Single Mode fiber optic cables and uses only one optical fiber per bidirectional connection through its WDM technology. The

SFP Transceivers | 1G, CWDM, DWDM, BiDi | EDGE Optical Solutions

Single-fiber bidirectional Gigabit SFP modules with SC connector interface for legacy equipment compatibility. Offered in matched wavelength pairs covering 3km to 40km distances, ideal for

SFP modules – transceivers for 1/2/4G fibre channel

BiDi (Bidirectional) SFP – Single-fiber SFP modules for FTTH and fiber-efficient networking, allowing both transmit and receive signals to travel over a single

1G Bidirectional Single-Mode Optical Module

SFP transceiver that supports 1G connections up to 3 km using single-mode fiber with a simplex LC UPC connector.

1km Single Fiber SFP 11D K001B55

OptoSpan 1Gb Single Fiber optical transceivers are compatible with many brands such as Finisar, Avago, JDSU and network environments that do not require any special compatibility.

1G BiDi SFP Module High-Speed Fiber Optic Connectivity

Our 1G BiDi SFP transceivers enable full-duplex communication over a single fiber, reducing fiber usage while maintaining reliable performance. Ideal for enterprise networks, data centers, and telecom

1G BiDi SFP Module Selection Guide: Maximize Fiber Efficiency

Choose the right 1G BIDI sfp module by checking compatibility, wavelength pairing, fiber type, and distance to ensure reliable network performance.

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Single Fiber Bidirectional SFP Transceivers

Single Fiber Bidirectional SFP transceivers use simplex single-mode fiber to double the bandwidth, data rates up to 4G and distances up to 160km.

Ubiquiti 1Gbps Bidirectional Single-Mode Optical

The Ubiquiti UACC-OM-SM-1G-S-2 1 Gbps Bidirectional Single-Mode Optical Module is a cutting-edge optical transceiver designed for bidirectional data

Buy 1g Single Fiber 2026 from Beijing Fibridge Co., Ltd., China ...

This single-fiber approach reduces fiber usage, lowers costs, and simplifies installation and maintenance. It employs different wavelengths, such as 1310 nm for upstream and 1550 nm for

UACC-OM-SM-1G-S-2 Bidirectional Single-Mode Optical Fiber

Supports optical fiber cables for enhanced durability, minimal signal loss, and efficient data transfers over long distances. Single-mode fiber compatibility ensures fast, reliable data sharing and access.

BiDi Optical Modules: Unlocking Single-Fiber Bidirectional Connectivity

Comprehensive guide on BiDi Optical modules, detailing single-fiber bidirectional connectivity, deployment tips, troubleshooting, and multi-speed applications for optimized networks.

BiDi SFP: The Complete Guide to Bidirectional SFP Transceivers and ...

BiDi SFP (Bidirectional Small Form-Factor Pluggable) transceivers have emerged as a powerful solution, enabling full-duplex communication over a single optical fiber. By using

The Complete Guide to BiDi Transceiver

What Is BiDi Transceiver? BiDi transceivers have become synonymous with reliable and high-performance networking, which can achieve bidirectional fiber optic communication by operating

Libya National Fiber Network Build

Building Libya''s National Fiber Infrastructure In strategic partnership with the General Electricity Company of Libya (GECOL), Global Technology Company is deploying a 14,000 km nationwide

1km Single Fiber SFP 11D K001B55

Find the 1 KM Single Fiber SFP SFP-11D-K001B55 at SanSpot. High-quality, reliable SFP for seamless fiber optic connectivity. Shop now for top performance.

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

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