

# North Macedonia Single-fiber Bidirectional 100G



## Overview

Utilizing bidirectional (BiDi) technology, it transmits 100Gbps over a single strand of single-mode fiber, with 1270nm for Tx and 1330nm for Rx, effectively doubling fiber capacity and reducing infrastructure costs. NEC's 100G QSFP28 BiDi optical transceiver enables the transmission and reception of 100Gb/s high-speed data over a single optical fiber. ZR4 BiDi, using four. Extreme Compatible 100GBASE-SR1. com Europe FS EuropeFREE SHIPPING on Orders Over EUR 79 VAT excl. Contact Us Germany / € EUR Sign in Sign up Search Recent Search Change FREE SHIPPING on Orders Over EUR 79 VAT. The 100G QSFP28 BiDi optical module enables 100G high-speed interconnects via single-fiber bidirectional transmission without adding more fibers, making it an ideal solution that balances performance and cost. The module can be used with any network device that accepts standard MSA transceivers - e. D-Link, Zyxel, Mikrotik and Ubiquity among others. In case you need the transceiver with specific. What 100G Transceivers and Cables are available from Arista?

Arista supports a full range of 100G copper cables and optical transceivers compliant to IEEE standards and industry MSAs.



## Article Content

Jan 29, 2026

Understanding 100G Single Fiber QSFP28 Module for

100G single fiber QSFP28 modules enable fast, cost-effective network upgrades using one fiber strand, ideal for scalable modern data centers.

Aug 16, 2025

100G QSFP28 LR1 BIDI Optical Transceiver 10KM | FiberMania

The 100G QSFP28 LR1 BIDI optical transceiver is a high-performance, single-fiber solution designed for cost-effective, high-density 100G Ethernet deployments.

Jul 27, 2025

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 transmission

Oct 20, 2025

SFP-1100-WB SFP+ 10G BiDirectional Optical Module

The SFP-1100-WB is a BiDirectional single fiber strand 10G SFP+ optical module using Tx:1550nm and Rx:1490nm wavelengths and supporting links up to 100Km

Jul 13, 2025

100G QSFP28 BIDI ZR4 Side B Transceiver

100G QSFP28 BIDI ZR4 Side B optical transceiver enables cost-effective 80km single-fiber bidirectional transmission.

Oct 20, 2025

Extreme Compatible 100GBASE-SR1.2 QSFP28 BiDi

The Extreme Compatible 100GBASE-SR1.2 BiDi QSFP28 transceiver is a pluggable optical module with a duplex LC connector, designed for short-reach data

Jan 19, 2026

Overview of 100G SFP Types

100G BiDi (Bidirectional) modules are worth mentioning here. These are specialized optical transceivers that transmit and receive data over a single fiber strand, effectively doubling the

Jul 07, 2025

## 100G QSFP28 / SFP-DD Modules and Cables FAQ | FS

The 100G BiDi transceiver refers to the QSFP28 single-mode fiber bidirectional optical module applied to 100G Ethernet. Each optical port on the QSFP28 BiDi contains both a transmitter and receiver,

May 15, 2026

## Understanding the World of 100GB Fiber Optic Cables

High-speed data transmission is in high demand, and thus, 100GB fiber optic cables are becoming more prominent in telecommunications and

Feb 01, 2026

## QSFP-100G-SR1.2 QSFP28 100GBASE-SR BiDi 850nm

QSFP-100G-SR1.2 BiDi is a parallel Quad Small Form-factor Pluggable (QSFP28) Bi-Direction optical module that supports 100 Gbps bit rates. The module

Aug 06, 2025

## 100G BIDI QSFP28 40km Single Fiber Transceiver - LightOptics®

This bidirectional transceiver is fully compliant with QSFP28 MSA, 100G OTU4, 802.3cu, SFF-8636 & SFF-8679 specifications in 100GBASE-LR1 BIDI applications. The hot-swapping module features an

Sep 09, 2025

## 100G Single-Fiber Optical Module: New Choice for High-Bandwidth ...

100G single-fiber optical modules, with their core advantage of enabling bidirectional transmission over a single fiber, are becoming a key device for conserving fiber resources and

Aug 26, 2025

## 100G QSFP28 BiDi : Optical Transceiver Module | NEC

NEC's 100G QSFP28 BiDi optical transceiver enables the transmission and reception of 100Gb/s high-speed data over a single optical fiber. By enabling bidirectional

Apr 20, 2026

## Introduction to 100G QSFP28 Bidirectional Transceivers

TARLUZ 100G QSFP28 Bidirectional transceivers are a cost saving solution for building a network or upgrading an existing network, the transceivers provide

Feb 09, 2026

## Single Fiber (BiDi)

Teroline single fiber bidirectional QSFP28 module for 100G applications over single mode optical fiber. The module can be used with any network device that accepts standard MSA transceivers - e.g. D

Feb 11, 2026

Coherent interference reduction in single-fiber bidirectional system ...

Bidirectional transmission on same wavelengths in a single fiber for 100-Gb/s short distance applications is proposed by utilizing alternate-mark inversion coding, coherent interference induced by reflection

Nov 01, 2025

## BWN 100G QSFP28 BIDI 30km SFP Module

Boost your network with the QSFP28 100G BIDI SFP module – a high-performance optical module for 100Gbps transmission over 30km. Perfect for data centers, it ensures compatibility and simplex LC

Mar 26, 2026

## 100G QSFP28 BiDi Optical Module: Features, Benefits, and Use Cases

Learn how 100G QSFP28 BiDi optical modules enable single-fiber bidirectional transmission to reduce fiber usage and deployment costs.

Nov 05, 2025

## 100G QSFP28 SR BiDi 100m LC Optical Transceiver

By employing two different wavelengths (850nm and 900nm) on the same fiber strand, it achieves 100mbps full-duplex communication over distances up to 100

Mar 18, 2026

100G BiDi QSFP28 module, 4xCWDM, 2km over SMF with FEC, DDM,

Teroline single fiber bidirectional QSFP28 module for 100G applications over single mode optical fiber. The module can be used with any network device that accepts standard MSA transceivers - e.g. D

Jul 13, 2025

## Arista 100G Transceivers and Cables: Q& A

The QSFP-100G-SWDM4 provides 100Gbps bandwidth over a standard duplex multi-mode fiber eliminating the need for expensive parallel multi-mode fiber infrastructure and offers a seamless

Dec 22, 2025

## Bidirectional Transmission of WiMedia-Compliant UWB Over 100-m ...

We present the first experimental demonstration of full-duplex, bidirectional transmission of WiMedia-compliant ultra-wideband (UWB) signals at 200 Mb/s over 100-m perfluorinated graded

Apr 14, 2026

## Specifications

100G Lambda MSA specification for 400 Gb/s interface with a reach up to 2 km. The single-mode fiber interface for Ethernet applications is based on 4 x100 Gb/s CWDM channels and assumes Ethernet

Dec 22, 2025

## 100G BiDi QSFP28 SR1.2 150m | Single Fiber | EDGEOPTIC

EDGEOPTIC 100G BiDi QSFP28 SR1.2: 150m OM5 MMF single fiber, 850/900nm, 1.9dB budget, 106.25 Gbps PAM4. LC simplex connector for fiber-efficient data centers.

Jul 09, 2025

## 40/100G 1550nm BiDi optical modules Transmission Optical

Dual-fiber LC to single-fiber bidirectional conversion, paired 1:1 with standard optical modules to achieve BiDi optical module single-fiber bidirectional transmission, saving construction costs and conserving

Sep 27, 2025

## MACOM announces industry's first single-chip solution for 100G ...

MACOM Technology Solutions, a supplier of high-performance RF, microwave, millimeterwave and photonic solutions, announced the industry's first integrated, single-chip transmit and receive solution

Mar 11, 2026

## 100G QSFP28 Bidi Optical Module

100G QSFP28 BiDi Bidirectional Optical Module 40km Single-Fiber LC Simplex for 5G Communication Applications. ETU-Link transceivers offer reliable, high-speed data transmission.| Alibaba

## Contact Us

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

Website: <https://www.elagage-lorrain.fr>

Email: [sales@elagage-lorrain.fr](mailto:sales@elagage-lorrain.fr)

Phone: +33 6 47 82 19 35

Address: 15 Rue de la République, 69002 Lyon, France

This document is for informational purposes only. Specifications subject to change without notice.

