

ZTE100G Single-Mode Optical Module



AI Overview

The ZTE100G Single-Mode Optical Module is a QSFP28 100Gbps transceiver designed for long-distance single-mode fiber applications, supporting high-speed, reliable, and energy-efficient connectivity. Overview The ZTE100G module, such as the ZTE 033030600033, is a QSFP28 full-duplex optical transceiver that aggregates four independent 25Gbps channels to achieve a total data rate of 100Gbps over single-mode fiber (SMF) for distances up to 2 km . It is designed for data center interconnects, metro networks, and campus backbones, where long-distance, high-speed connectivity is critical . The module supports MTP/MPO fiber ribbon connectors for optical alignment and uses a 38-pin MSA-compliant edge connector for electrical interfacing . Key Features Form Factor: QSFP28, enabling high port density and compact deployment . Transmission Technology: 4x25Gbps channels combined into 100Gbps, with options for single-lambda PAM4 modulation in advanced variants . Supported Distances: Typically 2 km for standard ZTE QSFP28 modules; single-lambda variants can extend from 500 m (DR) up to 40 km (ER BIDI) or more depending on the type . Wavelength: Standard 1310 nm for single-mode operation; some single-lambda modules use DSP-based conversion for 100G PAM4 signals . Power Consumption: Around 3.3V supply, with typical power usage of 4–4.5W depending on the module type . Digital Diagnostics: I2C interface provides real-time monitoring of temperature, voltage, optical power, and other operational parameters . Environmental Tolerance: Designed to operate under harsh conditions including temperature, humidity, and EMI interference . Applications Data Center Interconnect (DCI): Seamless high-speed connections between campuses or metro sites . Cloud and HPC Deployments: Reliable 100Gbps throughput with low latency for demanding workloads . Metro and Core Networks: Single-mode optics minimize modal dispersion, ensuring low bit error rates (BER) over long distances . Future-Proof Infrastructure: S...

Article Content

QSFP28 100GBASE LR4 1310nm 10km LC SMF

The Optical Transceiver provides fast and reliable 100G connectivity in data center environments. Its low power consumption feature makes it an energy-efficient

Introduction to the 100G ZR QSFP28 Coherent Module

Learn about 100G ZR QSFP28 coherent module key features, applications, and the impact it has on modern optical networking, ensuring cost

1.6T OSFP 2xDR4/DR8, 1310nm, 500m, DDM, CDR,

The MJ-OSFP1.6TB-DR8 is a cost-effective, high-performance OSFP module tailored for AI datacenter applications, delivering an aggregate throughput of 1.6

MODULE 10Gb/1310nm SFP+ sm Optical Transceiver Mod. 10KM ZTE

The ZTE 10Gb 1310nm SM 10KM SFP+ Module is a high performance optical transceiver, designed for single-mode fiber links up to 10km. Compatible with ZTE equipment, it is ideal for

Single Lambda 100G QSFP28 Modules Overview

Explore the features and applications of Single Lambda 100G QSFP28 modules and learn how these modules enhance high-speed data

Cisco 100GBASE CFP Modules Data Sheet

Cisco CFP-100G-ER4 The Cisco 100GBASE-ER4 (Figure 3) CFP module can support link lengths up to 40 kilometers on standard duplex single

100GE QSFP28 Optical Modules

This document provides an overall description of the CE12800 series switches hardware, helping you obtain detailed information about each chassis, power module, fan module, card, cable, and

Overview of 100G Optical Modules and Modulation

The QSFP28 PSM4 optical module is a high-speed, low-power product specifically designed for optical interconnects in data communication

ZXA10 C600

ZXA10 C600 is a large-capacity optical access OLT device based on the TITAN platform. It can meet the needs of ultra-high bandwidth access, 4k/8K big video

QSFP28 100GBASE LR4 1310nm 10km LC SMF

QSFP28 100GBASE LR4 1310nm 10km LC SMF Transceiver for optical network links. Review speed, wavelength, reach, fiber type, datasheets, and quote options.

Introduction to Common 100G Optical Module Types,

By understanding the different types of 100G optical modules available, their advantages, and application scenarios, organizations can make informed

ZTE 033030600033

This ZTE 033030600033 is a parallel 100Gb/s Quad Small Form-factor Pluggable (QSFP28) optical module. It provides increased port density and total system

ZTE 033030600033 Datasheet

This ZTE 033030600033 is a parallel 100Gb/s Quad Small Form-factor Pluggable (QSFP28) optical module. It provides increased port density and total system cost savings. The QSFP28 full duplex

100GE/200GE/400GE DCO Coherent Transceivers

FiberMall offers CFP DCO, CFP2 DCO, OSFP DCO & QSFP-DD DCO Coherent Optical Transceiver Module supporting up to 400G data rate for long-haul

QSFP28 Optical Transceiver Modules for Sale (100G) | Cables on

Buy 100G QSFP28 Optical Transceiver Modules by Amphenol XGIGA Factory-Direct at Cables on Demand in 100GBASE-SR4 (Short-Range Multimode) and 100GBASE-LR1 (Long-Range Single

100G Optical Module Selection Guide: Advantages and Types of

Explore the QSFP28 100G optical module, a vital component for high-speed network connections. Discover its unique features, advantages, and various types to meet diverse

ZTE 10km 1310nm 10G SFP+ Price and Test Report

ZTE bulk packed 10G SFP+ single-module (1310nm,10km,LC) optical transceiver

Cisco 100GBASE QSFP-DD 100G ZR Module Data Sheet

QSFP-DD 100G ZR transceiver Features and benefits The Cisco QSF-DD 100G ZR supports a 100GBASE-R client interface over an optical link

100G QSFP28 Transceiver

QSFPTEK offers 100G transceivers based on QSFP28 form factor, enabling customers cost-effective, high-density, and low-power 100G Ethernet connectivity solutions. Portfolio includes 100G SFP28

100G QSFP28 Transceiver Modules | Optical

The 100G QSFP28 module solution provides high-performance 100GbE connectivity for data centres, enterprise core & distribution layers, computing networks and

Cisco 100GBASE QSFP-100G Modules

Cisco QSFP-100G-LR4-S The Cisco 100GBASE-LR4-S QSFP Module supports link lengths of up to 10km over a standard pair of G.652 single-mode fiber with duplex LC connectors. The 100 Gigabit

100Gb/s QSFP28 Transceivers

Amphenol's 100G QSFP28 optical modules include SR4, AOC, AOC break out, CWDM4, LR4, ER4 Lite, ER4 and ZR4 series, which adopt LC or MPO optical ports and are compatible with IEEE802.3bm,

Ultra-High-Speed Optical Devices for Building High

Ultra-High-Speed Optical Devices Key units of a coherent optical module include integrated coherent receiver (ICR), coherent driver modulator

100G QSFP28 Transceiver

The 10Gtek 100G QSFP28 transceiver is a 100Gb/s Small Form-factor Pluggable (QSFP28) optical module. The QSFP28 full-duplex optical module offers 4

Exploring 100G Single Mode QSFP28 Transceiver Types

Explore 100G single mode QSFP28 module types by distance, cost, and use case to select the best fit for data center, metro, or long-haul networks.

100GBASE QSFP28 transceiver optical module

QSFP28 transceivers offer 4 independent transmit and receive channels to help you quickly ramp up to 100G transmission.

100G Optical Module: How to Choose Between SR4,

Today, we've delivered a clear and comprehensive breakdown of the transmission standards for 100G optical modules. Our goal is to empower you

100G QSFP28 Single Mode Transceivers: Types, Specs, and

Explore the world of 100G QSFP28 single mode transceivers, including LR4, ER4, ZR4, and PAM4 variants. Learn about their specifications, applications, and how to choose the right

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

The 100G ZR QSFP28 DCO transceiver supports 100G transmission over distances up to 120km (dispersion limited, optionally extendable to 300km) for edge network applications. On the host side,

Contact Us

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