

Certified ONT Optical Network Terminal

QSFP28



AI Overview

A certified ONT module with QSFP28 support enables precise testing and verification of 100G optical networks, ensuring accurate performance measurements and compliance with network standards.

Overview of QSFP28
QSFP28 (Quad Small Form-Factor Pluggable 28) is a 100G optical transceiver standard designed for high-speed data transmission in data centers, enterprise networks, and metro networks. It retains the compact form factor of QSFP and QSFP+ while supporting 100Gbps data rates using four 25–28Gbps channels. QSFP28 modules are available in multiple configurations, including:

- SR4 (Short-Range Multimode): Up to 100 meters over OM4 fiber using MTP/MPO connectors.
- LR4 (Long-Range Single-Mode): Up to 10 km over OS1/OS2 fiber using LC duplex connectors.
- CWDM4, ER4, ZR4: For extended reach and specialized applications.

These modules comply with MSA standards, IEEE 802.3bm, and SFF-8636, ensuring broad compatibility across network equipment.

Certified ONT N-PORT Module
The VIAVI ONT N-PORT module is a high-precision instrument designed for system verification and testing of 100G-class products, including QSFP28 transceivers. Key features include:

- Four independent QSFP28 or SFP28 ports for simultaneous testing.
- Support for Ethernet, OTN, and Fiber Channel protocols.
- High-precision timing and phase control, with lane timing adjustable to fractions of a PPM.
- Ability to measure packet delays and jitter from fractions of a nanosecond to seconds.
- Calibration and certification ensure measurement accuracy, compliance with ISO/TL9000 standards, and reliable QoS verification.

Benefits of Certification
Using a certified ONT module provides several advantages:

- Accurate performance validation:** Ensures QSFP28 transceivers meet published specifications.
- Reliable network deployment:** Reduces the risk of service-level agree...

Article Content

QSFP28 Transceiver: Complete 100G Connectivity

QSFP28 transceiver guide covering module types, pricing, compatibility, and deployment. Learn how to choose, deploy, and troubleshoot

Nokia Fiber

The Nokia Optical Network Terminal (ONT) XS-010X-Q that has one 1/10 Gigabit Ethernet (GigE) is part of the industry-leading Nokia ONT product family and is

Amazon : Optical Network Terminal

Optical network terminals provide a seamless bridge between fiber optic and Ethernet networks. Discover plug-and-play convenience and auto-negotiation features.

Openreach modem (ONT) explained: Ports and models available

Openreach modem (ONT) explained: Ports and models available If you are a fibre customer, it's likely you'll have an Openreach modem (or ONT) installed. This white box connects to a fibre-optic cable

What is QSFP28? Guide to 100G Ethernet | NetAlly

Learn how QSFP28 transceivers enable 100G Ethernet. A guide for network engineers on compatibility, fiber types, and upgrade paths.

ONT N-PORT Module | 100G System Verification | VIAVI

The VIAVI ONT N-PORT module is a 4-port solution for test and system verification of 100G-class products. It supports four native, fully

Understanding the QSFP28 Standard (SFF-8665): 100G Optical

Discover the QSFP28 (SFF-8665) standard — the foundation of 100G Ethernet networks. Learn its technical design, interoperability, and LINK-PP's fully compliant transceiver solutions for

ONT-600 Test Solutions for 25GE up to 100GE / OTU4

The CFP and CFP2 Test Modules support testing and verification of new high-speed network elements for 25GE, 40GE, OTU3, 50GE, 100GE and

QSFP28 Active Optical Cable | Optical Interconnect

Amphenol's 100G QSFP28 to QSFP28 Active Optical Cable assemblies are a reliable, cost and power efficient, integrated solution which is

ONT N-PORT Module | 100G System Verification | VIAVI

Overview The VIAVI ONT N-PORT Module addresses test and measurement needs for more quickly launching 100G-class products to market.

Intel® Ethernet QSFP28 Optic

When used with Intel® Ethernet Network Adapters with QSFP28 connectivity, these optics provide interoperability and secure connections for virtualized platforms, high-speed networking, and

Fiber OLT and ONTs User Guide

Fiber Optical Network Terminal (ONT) terminates the OAN by providing a subscriber port. It serves as an interface between the fiber-optic network and an internal network of the customer.

DoT extends deadline for mandatory testing of

The Telecom Department has postponed the mandatory security testing for optical fibre broadband equipment until December 31. This is the third

Intel® Ethernet QSFP28 Optic

Intel® Ethernet QSFP28 Optic quick reference with specifications, features, and technologies.

Cisco ONS-QSFP28-LR4 100Gbps LR QSFP28 Optical Transceiver

The Cisco ONS-QSFP28-LR4 100Gbps Multi-rate transceiver is designed for long-reach networking solutions. It delivers high performance, reliability, and scalability for data centers and enterprise

FS 100G QSFP28 Selection Guide

With high-quality Macom chips and built-in dual CDR, FS 100G QSFP28 transceivers can achieve high-performance and low-power consumption 100G network connectivity for our customers.

6 Best Optical Network Terminals [2025 Bestseller]

Discover the 6 best optical network terminal modems from VSOL, offering high-speed connectivity, reliability, and advanced features for homes and

Optical Network Terminal (ONT) Enclosures and Wall

Based on customer feedback, our latest optical network terminal designs now include Keystone Ports for router and phone connections, enhancing

Optical Network Terminals Selection Guide: Types,

Optical network terminals (ONTs) are essential endpoint devices in fiber-optic communication systems, responsible for converting optical signals from fiber

Approved Networks offers 100G QSFP28 Universal

Approved Networks, a brand of Legrand, now offers the 100GBASE QSFP28 Universal optical transceiver for both multimode and single-mode

A New Generation of 100G Pluggable Optics Starts with

Learn how to future-proof your investment as the optics industry transitions to new 100G pluggable form factors. The QSFP28 100G FR is a new

Contact Us

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