Optical module PSM4 interface



Overview

100G QSFP28 PSM4 (Parallel Single Mode Quad) supports short and middle-range transmission of 500m over single-mode fiber. The Intel® Silicon Photonics 100G PSM4 (Parallel Single Mode fiber 4-lane) QSFP28 Optical Transceiver is a small form-factor, high speed, and low power consumption product, targeted for use in optical interconnects for data communications applications. The high bandwidth module supports 100GbE. 100G QSFP28 PSM4 is a cost-efficient 100Gbps optical transceiver designed for short-reach data center links where parallel single-mode fiber infrastructure is available. It is most commonly used for spine-leaf connections, switch-to-switch links, and high-density east-west traffic inside hyperscale. QSFP28 transceiver that supports 100G connections up to 2 km using single-mode fiber with an MPO-12 APC connector. *Requires OS2 single-mode fiber. Power Consumption CLASS 1 LASER PRODUCT, IEC/EN. The QSFP-100G modules are our latest generation of 100G transceiver modules solution based on a QSFP form factor. ● Interoperable with other IEEE-compliant 100GBASE interfaces where. A female MPO connector with 8-degree end- face should be used with this product as illustrated in below. However, normal ESD precautions are still required during the handling of this module.

© 2026 DOLPHIN FIBER SYSTEMS - All rights reserved

Article Content

Intel® Silicon Photonics 100G PSM4 Brief

The Intel® Silicon Photonics 100G PSM4 (Parallel Single Mode fiber 4-lane) QSFP28 Optical Transceiver is a small form-factor, high speed, and low power consumption product, targeted for use

Intel® Silicon Photonics 100G PSM4 QSFP28 Optical Transceiver

It is a small form factor, high speed, and low power consumption product, targeted for use in optical interconnects for data communications applications. The high bandwidth module supports 100GbE

100G QSFP28 PSM4 Explained: Use Cases and Solutions Guide

100G PSM4 is a parallel single-mode optical interface that delivers 100Gbps using four independent 25Gbps lanes over single-mode fiber, typically for short-reach data center links up to 2km.

100G PSM4 Single-Mode Optical Module

QSFP28 transceiver that supports 100G connections up to 2 km using single-mode fiber with an MPO-12 APC connector.

100GBASE QSFP-100G Modules Data Sheet

The Cisco QSFP-100G-SR-S Module is a pluggable optical transceiver with a duplex LC connector interface supporting link lengths of 70

100-Gbps QSFP28 PSM4 Optical Transceiver Module

MIL-STD-883, Method 3015.4/ JESD22-A114-A (HBM). However, normal ESD precautions are still required during the handling of this module. This transceiver is shipped in ESD protective packaging.

100G CWDM4 vs LR4 vs PSM4, What Are the Differences?

Since then, 100g optical modules have quickly moved towards the commercial stage. 100G QSFP28 CWDM4, 100G QSFP28 LR4, and 100G QSFP28 PSM4 optical modules are three

100G QSFP28 SR4/LR4/ER4/CWDM4/PSM4:

Learn the differences between 100G QSFP28 SR4, LR4, ER4, CWDM4 and PSM4: interfaces, fiber types, reach, and how to choose the right

100GbE QSFP28 PSM4 Optical Transceiver

© 2026 DOLPHIN FIBER SYSTEMS - All rights reserved

The optical interface is composed of four optical channels/fibers in each direction and is intended for a parallel single-mode optical cable via a standard MPO connector.

400G, 800G, and Terabit Pluggable Optics:

Common Management Interface Spec (CMIS) Standardized now in OIF – >100G modules, ubiquitous adoption for 400G modules and above

QSFP28 Transceiver: Complete 100G Connectivity Guide (2026)

QSFP28 transceiver guide covering module types, pricing, compatibility, and deployment. Learn how to choose, deploy, and troubleshoot 100G QSFP28 optics.

Arista Optics Modules and Cables

All interface speeds, from 1G to 400GE have connectivity options that include Direct Attach copper Cables (DACs), Active Optical Cables (AOCs), multi-mode fiber and single-mode fiber transceivers.

Complete Guide to Pluggable Optical Transceivers –

Complete Guide to Pluggable Optical Transceivers Fundamentals & Core Concepts What are Pluggable Optical Transceivers? Pluggable optical

What is QSFP & QSFP+ Transceiver: An Ultimate

What is a QSFP & QSFP+ Transceiver? QSFP stands for Quad Small Form-factor Pluggable. By integrating four-lane signals into a single

Custom 100G QSFP28 SRBD Module | Duplex LC MMF

Seamless 10G/40G Replacement: Matches the exact physical interface of older 10G SR or 40G BiDi networks, enabling a literal plug-and-play bandwidth upgrade without touching the structured cabling.

Complete Guide to QSFP28 PSM4 Optical Transceivers

What is QSFP28 PSM4? The QSFP28 PSM4 (Quad Small Form-factor Pluggable 28 Parallel Single Mode 4) optical transceiver is a high-speed

Unlock High-Density 100G Connectivity: Your Guide to the 100G PSM4 ...

Enter the 100G PSM4 (Parallel Single-Mode 4-lane) optical module – a crucial workhorse powering efficient 100 Gigabit Ethernet (100GbE) links. This guide dives deep into what makes

About QSFP28 PSM4 Optics: Do You Know These?

QSFP28 PSM4 optical transceiver Why Is 100G QSFP28 PSM4 Optical Transceiver In Demand? It is known that the most basic 100G interfaces

© 2026 DOLPHIN FIBER SYSTEMS - All rights reserved

Contact Us

Continue your research online:

Website: https://dolphinspreschool.co.za
Technical inquiry: https://dolphinspreschool.co.za/project-desk.html
African project coordination: Waterfall City, Midrand, Gauteng, South Africa

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

© 2026 DOLPHIN FIBER SYSTEMS - All rights reserved