

100G QSFP28 PSM4 Optical Transceiver

4 × 25G Parallel Single-Mode Fiber, MTP/MPO, 500 m

Product Overview

The EN-QSFP28-PSM4 is a 100Gbps parallel single-mode optical transceiver designed for high-speed data center interconnects and high-density networking environments.

The module converts 4 independent electrical input channels (25Gbps each) into 4 parallel optical lanes operating at 1310 nm, enabling transmission over single-mode fiber (SMF) up to 500 meters using an MTP/MPO connector.

The transceiver is compliant with the QSFP28 MSA, supports 100G Ethernet, and integrates digital diagnostic monitoring (DDM) for real-time operational monitoring.

Product Features

- QSFP28 MSA compliant
- 100Gbps aggregate bandwidth
- 4 × 25Gbps electrical lanes
- 4 × 25Gbps optical lanes
- PSM4 parallel single-mode interface
- 1310 nm operating wavelength
- MTP/MPO optical connector
- Reach up to 500 m over single-mode fiber (SMF)
- Digital Diagnostic Monitoring (DDM)
- Hot-pluggable QSFP28 form factor
- Low power consumption



Applications

- 100G Ethernet
- Data Center Interconnect (DCI)
- Spine-leaf network architectures
- High-performance computing (HPC)
- Cloud and hyperscale data centers

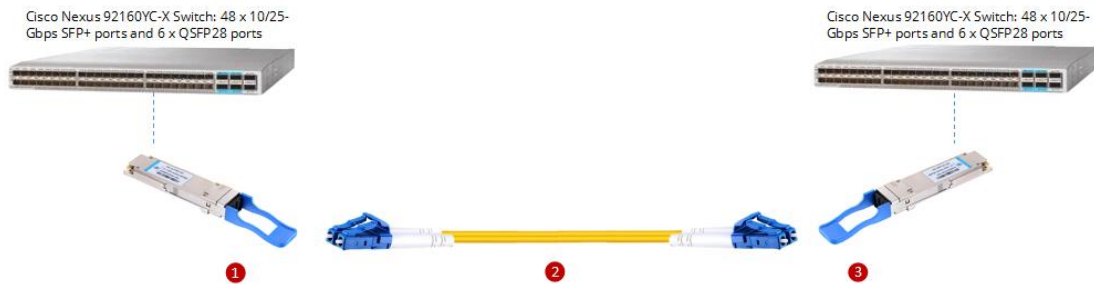


Technical Specifications

Parameter	Value
Form Factor	QSFP28
Data Rate	100 Gb/s
Interface	PSM4
Electrical Lane Rate	4 × 25.78125 Gb/s
Optical Lane Rate	4 × 25.78125 Gb/s
Wavelength	1310 nm
Fiber Type	Single Mode Fiber (OS2)
Connector	MTP/MPO
Max Transmission Distance	500 m
Modulation	NRZ
Power Consumption	≤ 3.5 W
Supply Voltage	3.3 V
Operating Temperature	0°C to +70°C
Storage Temperature	-40°C to +85°C
Digital Diagnostics	Supported

Connectivity example

A cost-optimized solution for SMF up to 500m. Customers can use it for 100G to 100G connectivity.



EN-QSFP28-PSM4 Connectivity

The 100G-PSM4/CW4/LR4 modules use duplex LC fibre connectors – the same connectors used on existing 10G and 40G QSFPs that use duplex SMF (e.g., 40G-LR4 etc.).





Ordering information

Part Number	Description
EN-QSFP28-PSM4-xx	100G QSFP28 PSM4 Transceiver, 4x25G, MTP/MPO Interface, 1310 nm, up to 500 m over SMF

Product Selection

xx: Indicates the vendor compatibility code.

I: Indicates Industrial Temperature range, where applicable.

Examples

- EN-SFP10G-LR-EZ
 - Commercial temperature range
 - Compatible with Evertz
- EN-SFP10GIDL-JREX
 - Industrial temperature range
 - Compatible with Juniper EX Series

Compatibility

Tested for interoperability with major networking platforms.

Compliance

Built-in Digital Diagnostic Monitoring (DDM) compliant with SFF-8472 Rev.12 and MSA SFF specifications.



E.C.I.NETWORKS

Notice:

E.C.I. Networks reserves the right to make changes to or discontinue any optical link product or service identified in this publication, without notice, to improve design and/or performance. Applications that are described herein for any of the optical link products are for illustrative purposes only.

For further information



E.C.I.NETWORKS

Office: 1-800-967-1672

Fax : 1-855-201-7283

<mailto:sales@ecin.ca>

www.ecin.ca

NOTE: ALL TRADEMARKS, REGISTERED COMPANIES & REFERENCES CITED ARE THE SOLE PROPERTY OF THEIR RESPECTIVE COMPANY AND ARE USED SOLELY TO ASSIST IN THE IDENTIFICATION OF PRODUCTS.