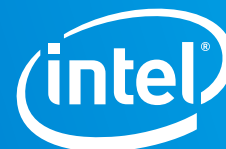
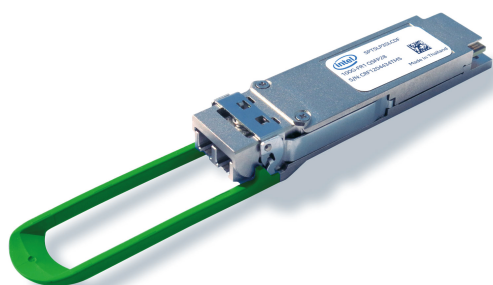


PRODUCT BRIEF

Intel® Silicon Photonics 100G DR, FR and LR QSFP28 Optical Transceiver



100G Single Mode Optical Data Center Connectivity



Bringing together the power of optics and the scalability of silicon for a high-speed, integrated optical connectivity solution

Description

The Intel® Silicon Photonics 100G DR, FR and LR (100G DR1, FR1/DR1+ and LR1) QSFP28 Optical Transceivers are small form-factor, high-speed, and low-power consumption products, targeted for use in optical interconnects for data communications applications. The high-bandwidth modules support up to 10 km optical links over single-mode fiber.

Applications

- Connectivity for large-scale cloud and enterprise data centers
- Ethernet switch, server, router, and client-side telecom optical interfaces

Features

- Compliant with IEEE 100GBASE-DR optical interface standard and 100G Lambda MSA specifications, and supports reaches of 2 km (100G FR) and 10 km (100G LR)
- Interoperates with 400G DR4 (100G DR), 400G DR4+ (100G FR) and 4x100G LR1 (100G LR1) optical modules in 4x100GbE breakout applications
- Compact QSFP28 form factor for high faceplate density in networking equipment
- Compatibility with SMF connectors and cable infrastructures
- Application supports operation with Forward Error Correction (FEC)
- Electrical interface compliant with IEEE 802.3bm CAUI-4 4x25G standard
- Power dissipation of 4.5 W maximum
- Operating temperature range: 0 to 70°C
- Full module diagnostics and control through I2C, compliant with SFF-8636

Ordering Information

Part Number	Description
SPTSLP4SLCDF	100G LR QSFP28 Optical Transceiver With LC Optical Connector, 10 km reach
SPTSLP3SLCDF	100G FR QSFP28 Optical Transceiver With LC Optical Connector, 2 km reach
SPTSLP2SLCDF	100G DR QSFP28 Optical Transceiver With LC Optical Connector, 500 m reach



Contact us

For more information on this or other Intel® Silicon Photonics products visit us at www.intel.com/siliconphotonics

This product brief, including picture and drawings, contains information about a new product. The information contained herein is given to describe certain components and shall not be considered as a guarantee of characteristics. Intel reserves the right to change the design of the products or specifications at any time without notice. The material is provided as is and without any warranties, including but not limited to warranties of non-infringement, description, and fitness for a particular purpose. For use only by product developers, software developers and system integrators. For evaluation only; not FCC approved for resale.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Intel:

[SPTSLP2SLCDF](#) [SPTSLP3SLCDF](#)