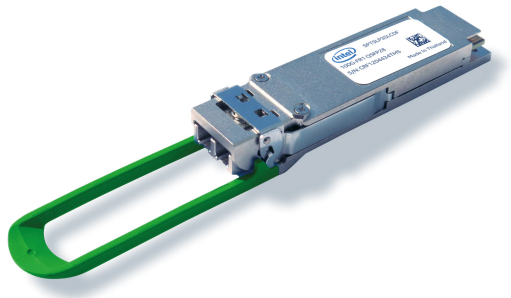
PRODUCT BRIEF

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

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