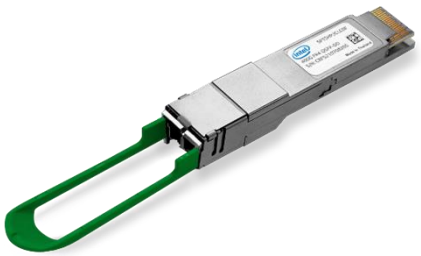
PRODUCT BRIEF

Intel® Silicon Photonics 400G FR4 QSFP-DD Optical Transceiver

400G Duplex 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 400G FR4 QSFP-DD 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 400GbE optical links over duplex single-mode fiber.

Applications

- Connectivity for large scale cloud and enterprise data centers
- Optical interfaces for Ethernet switch, router, and transport networking equipment

Features

- Compliant with IEEE 400GBASE-FR4 optical interface standard and 100G Lambda MSA 400G FR4 optical interface specification for use in 400GbE applications up to 2 km
- Electrical interface compliant with IEEE 802.3bs 400GAUI-8 standard
- Compact Type 2 QSFP-DD form factor for high faceplate density in networking equipment and cage backward compatibility with QSFP28
- Compatibility with single-mode fiber connectors and cable infrastructures
- Operating case temperature range of 0 to 70°C
- CMIS-compliant management interface with full module diagnostics and control through I2C
- Class 1 Laser

Ordering Information

Part Number	Description
SPTSHP3CLCDF	400G FR4 QSFP-DD Optical Transceiver with LC Optical Connector, 2 km Reach

Contact us

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