400G Duplex Single Mode 10km 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 LR4 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 to up to 10 kilometers.

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-LR4-10 optical interface standard and 100G Lambda MSA 400G LR4 optical interface specification for use in 400GbE applications up to 10 km. Also meets 400GBASE-LR4-6 for 6 km applications.
• 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

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<th>Part Number</th>
<th>Description</th>
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<tr>
<td>SPTSHP4CLCDF</td>
<td>400G LR4 QSFP-DD Optical Transceiver with LC Optical Connector, 10 km Reach</td>
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