400G Single Mode Optical Data Center Connectivity

Description
The Intel® Silicon Photonics 400G DR4+ (Data center Reach 4-lane with extended reach) 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 single-mode fiber, or quad 100GbE optical links for breakout applications.

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-DR4 optical interface standard and 4x 100G Lambda MSA 100G FR optical interface specification for use in 400GbE or 4x100GbE breakout 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 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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<tbody>
<tr>
<td>SPTSHP3PMCDF</td>
<td>400G DR4+ QSFP-DD Optical Transceiver with MPO Optical Connector, 2 km Reach</td>
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<tr>
<td>SPTSHP2PMCDF</td>
<td>400G DR4 QSFP-DD Optical Transceiver with MPO Optical Connector, 500 m Reach</td>
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