



SPDxx040100D – DWDM Dual Fibre transceiver ITU DWDM / 40km / 10 Gigabit Ethernet

Overview

SPDxx040100D is a high performance transceiver module for 10 Gigabit Ethernet data link over a singlemode fiber pair. The maximum reach is 40km, for a 14dB end of life (EOL) power budget. The emitter is a DWDM EML laser, the receiver a PIN photodiode.

This transceiver module is compliant with the Small Form-factor Pluggable (SFP+) Multisource Agreement (MSA) and hot pluggable. Always contact Laser 2000 for compatibility with different equipment platforms.

Features

- SFP+ Multi-Source Agreement compliant
- Dual LC connector
- DWDM EML transmitter
- 40km point-to-point transmission on singlemode fibre
- 10x Gigabit Ethernet compliant
- Hot pluggable SFP+ footprint
- Class 1 laser safety standard IEC 60825 compliant
- Low power dissipation (<1W)
- Operating temperature range 0°C to 70°C
- Digital diagnostics monitoring (DDM) Implemented



Applications

- 10GE switches and routers

The optical ports of the module need to be terminated with an optical connector or with a dust plug in order to avoid contamination.

Optical Interface

P/N	Nominal Wavelength [nm]	Average Output Power (1) [dBm]	Typical Optical Receiver Sensitivity (2) [dBm]	Optical Receiver Overload [dBm]	Transmitter Dispersion Penalty [dB]
SPDxx040100D	ITU DWDM	-2 to 4	-16	0	2

[1] EOL, over operating temperature range

[2] Measured at 10 Gigabit Ethernet



Ordering information

Part Number	Description
SPD17040100D	SFP+ DWDM Dual Fibre, Tx 1563.86nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD18040100D	SFP+ DWDM Dual Fibre, Tx 1563.05nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD19040100D	SFP+ DWDM Dual Fibre, Tx 1562.23nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD20040100D	SFP+ DWDM Dual Fibre, Tx 1561.42nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD21040100D	SFP+ DWDM Dual Fibre, Tx 1560.61nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD22040100D	SFP+ DWDM Dual Fibre, Tx 1559.79nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD23040100D	SFP+ DWDM Dual Fibre, Tx 1558.98nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD24040100D	SFP+ DWDM Dual Fibre, Tx 1558.17nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD25040100D	SFP+ DWDM Dual Fibre, Tx 1557.36nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD26040100D	SFP+ DWDM Dual Fibre, Tx 1556.56nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD27040100D	SFP+ DWDM Dual Fibre, Tx 1555.75nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD28040100D	SFP+ DWDM Dual Fibre, Tx 1554.94nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD29040100D	SFP+ DWDM Dual Fibre, Tx 1554.13nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD30040100D	SFP+ DWDM Dual Fibre, Tx 1553.33nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD31040100D	SFP+ DWDM Dual Fibre, Tx 1552.52nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD32040100D	SFP+ DWDM Dual Fibre, Tx 1551.72nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD33040100D	SFP+ DWDM Dual Fibre, Tx 1550.92nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD34040100D	SFP+ DWDM Dual Fibre, Tx 1550.12nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD35040100D	SFP+ DWDM Dual Fibre, Tx 1549.32nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD36040100D	SFP+ DWDM Dual Fibre, Tx 1548.52nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM



Ordering information

Part Number	Description
SPD37040100D	SFP+ DWDM Dual Fibre, Tx 1547.72nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD38040100D	SFP+ DWDM Dual Fibre, Tx 1546.92nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD39040100D	SFP+ DWDM Dual Fibre, Tx 1546.12nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD40040100D	SFP+ DWDM Dual Fibre, Tx 1545.32nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD41040100D	SFP+ DWDM Dual Fibre, Tx 1544.53nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD42040100D	SFP+ DWDM Dual Fibre, Tx 1543.73nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD43040100D	SFP+ DWDM Dual Fibre, Tx 1542.94nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD44040100D	SFP+ DWDM Dual Fibre, Tx 1542.14nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD45040100D	SFP+ DWDM Dual Fibre, Tx 1541.35nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD46040100D	SFP+ DWDM Dual Fibre, Tx 1540.56nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD47040100D	SFP+ DWDM Dual Fibre, Tx 1539.77nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD48040100D	SFP+ DWDM Dual Fibre, Tx 1538.98nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD49040100D	SFP+ DWDM Dual Fibre, Tx 1538.19nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD50040100D	SFP+ DWDM Dual Fibre, Tx 1537.4nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD51040100D	SFP+ DWDM Dual Fibre, Tx 1536.61nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD52040100D	SFP+ DWDM Dual Fibre, Tx 1535.82nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD53040100D	SFP+ DWDM Dual Fibre, Tx 1535.04nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD54040100D	SFP+ DWDM Dual Fibre, Tx 1534.25nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD55040100D	SFP+ DWDM Dual Fibre, Tx 1533.47nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD56040100D	SFP+ DWDM Dual Fibre, Tx 1532.68nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM



Ordering information

Part Number	Description
SPD57040100D	SFP+ DWDM Dual Fibre, Tx 1531.9nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD58040100D	SFP+ DWDM Dual Fibre, Tx 1531.12nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD59040100D	SFP+ DWDM Dual Fibre, Tx 1530.33nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD60040100D	SFP+ DWDM Dual Fibre, Tx 1529.55nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
SPD61040100D	SFP+ DWDM Dual Fibre, Tx 1528.77nm (DWDM EML) , Rx (PIN), maximum distance 40km, power budget 14dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM