SPDxx08010xD – SFP+ Dual Fibre DWDM 100GHz

DWDM / 80km / 10x Gigabit Ethernet

For your product safety, please read the following information carefully before any manipulation of the transceiver:

ESD
This transceiver is specified as ESD threshold 1kV for SFI pins and 2kV for all others electrical input pins, tested per MIL-STD-883G, Method 3015.4 /JESD22-A114-A (HBM). However, normal ESD precautions are still required during the handling of this module.

LASER SAFETY
This is a Class1 Laser Product according to IEC 60825-1:2007. This product complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated (June 24, 2007).

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

1. Overview

SPDxx08010xD is a high performance transceiver module for up to 10× Gigabit Ethernet data links over a single mode fibre pair. The maximum reach[1] is 80km, with 23dB end of life (EOL) power budget. The transmitter is a DWDM EML laser, the receiver is an APD photodiode.

This transceiver module is compliant with the Small Form-factor Pluggable (SFP+) Multisource Agreement (MSA) and hot pluggable. Always contact Skylane Optics[2] commercial agents for compatibility with different equipment platforms.

2. Features

- Electrical interface specification as per SFF-8431
- Hot pluggable SFP+ footprint
- Management interface specification as per SFF-8431 and SFF-8472
- Class 1 laser safety standard IEC 60825 compliant
- SFP+ MSA package with duplex LC connector
- DWDM EML transmitter
- APD receiver
- 80km point-to-point transmission on single mode fibre
- Operating temperature range 0°C to 70°C or -40°C to 85°C
- Power dissipation < 1.8W
- Digital Diagnostics monitoring (DDM)

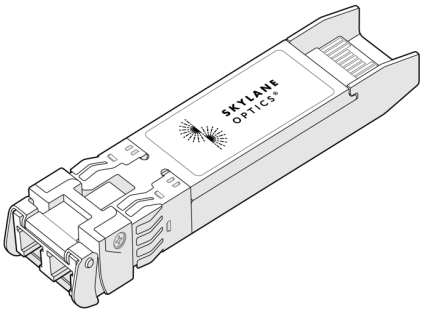

Figure 1. SFP+ Dual Fiber
(non-binding illustration)

3. Applications

- 10× Gigabit Ethernet
- 9.83 Gbps CPRI
- 8× Fiber Channel
- 4× Fiber Channel
- 2× Fiber Channel

4. Optical Interface

P/N	Wavelength [nm]	Optical Output Power[3] [dBm]	Receiver Sensitivity[3] [dBm]	Dispersion Penalty [dB]	Receiver Overload[4] [dBm]	Power Budget[1] [dB]
SPDxx08010xD	ITU DWDM 100GHz	0 to 5	≤ -23	3.5	-7	≥ 23

1. Distance is estimated assuming typical optical losses after decent quality fibre deployment; Only optical budget value is guaranteed
2. EOL, over operating temperature range
3. Measured with 10.3Gbps PRBS 231-1, BER≤10-12
4. The optical input to the receiver should not exceed this value. Transmitters must never be directly connected to receivers (optical loop back) before ensuring that proper optical attenuation is used

5. Technical Parameters

5.1. Recommended Operating Conditions					
Parameter	**Min**	**Typ**	**Max**	**Units**	**Notes**
Storage temperature	-40		85	°C	
Operating Case Temperature	0		70	°C	SPDxx080100D, SPDxx08010AD, SPDxx08010GD
	-40		85		SPDxx080102D
Relative Humidity	5		95	%	Non condensing
Power Supply Voltage	3.15	3.3	3.45	V	
Power Supply Current			450	mA	SPDxx080100D, SPDxx08010AD, SPDxx08010GD
			550		SPDxx080102D
Power Dissipation			1.5	W	SPDxx080100D, SPDxx08010AD, SPDxx08010GD
			1.8		SPDxx080102D

5.2. Transmitter Optical Specifications					
Parameter	**Min**	**Typ**	**Max**	**Unit**	**Notes**
Optical Output Power	0		5	dBm	5
Centre Wavelength Range	1528.77		1563.86	nm	
Wavelength	λ_T -100	λ_T	λ_T +100	pm	6
Spectral Width (-20dB)			1	nm	
Extinction Ratio	9			dB	
Transmitter and Dispersion Penalty (TDP)			3.5	dB	

5. Output power coupled into a 9/125 µm single-mode fibre
6. ITU-T G.694.1 DWDM. For available wavelengths, see section 9

5.3. Receiver Optical Specifications					
Parameter	**Min**	**Typ**	**Max**	**Unit**	**Notes**
Receiver Sensitivity			-23	dBm	7
Receiver Overload	-7			dBm	7
Receiver Operating Range	1250		1620	nm	

7. Measured with 10.3Gbps PRBS 2^{31}-1, BER≤10^{-12}

6. Transceiver Electrical Pad Layout

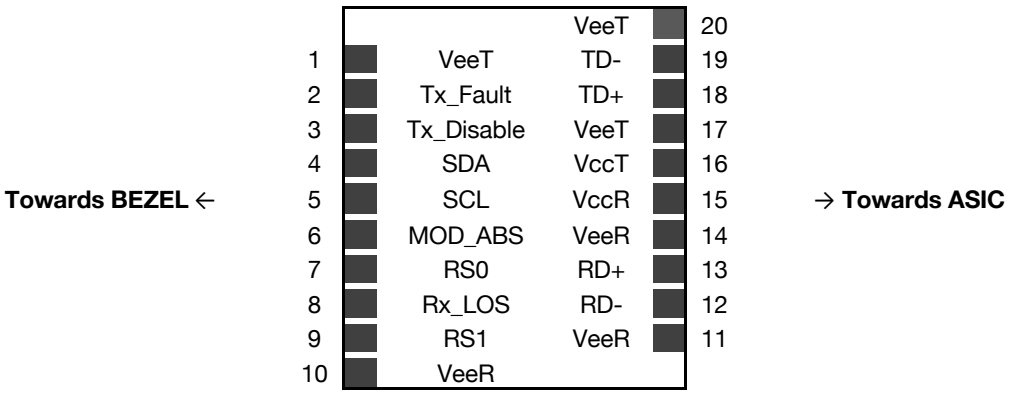

Figure 2. Transceiver Electrical Pad Layout

7. Module Electrical Pin Definition

SFP+ MSA (SFF-8431)

Pin Number	Name	Function
1	VeeT	Module Transmitter Ground
2	Tx_Fault	Module Transmitter Fault
3	Tx_ Disable	Transmitter Disable
4	SDA	2-Wire Serial Interface Data
5	SCL	2-Wire Serial Interface Clock
6	Mod_ABS	Module Absent
7	RS0	Not Used
8	Rx_LOS	Receiver Loss of Signal
9	RS1	Not Used
10	VeeR	Module Receiver Ground
11	VeeR	Module Receiver Ground
12	RD-	Receiver Inverted Data Output
13	RD+	Receiver Non-Inverted Data Output
14	VeeR	Module Receiver Ground
15	VccR	Module Receiver 3.3V Supply
16	VccT	Module Transmitter 3.3V Supply
17	VeeT	Module Transmitter Ground
18	TD+	Transmitter Non-Inverted Data Input
19	TD-	Transmitter Inverted Data Input
20	VeeT	Module Transmitter Ground

8. EEPROM

SFP+ MSA (SFF-8472)

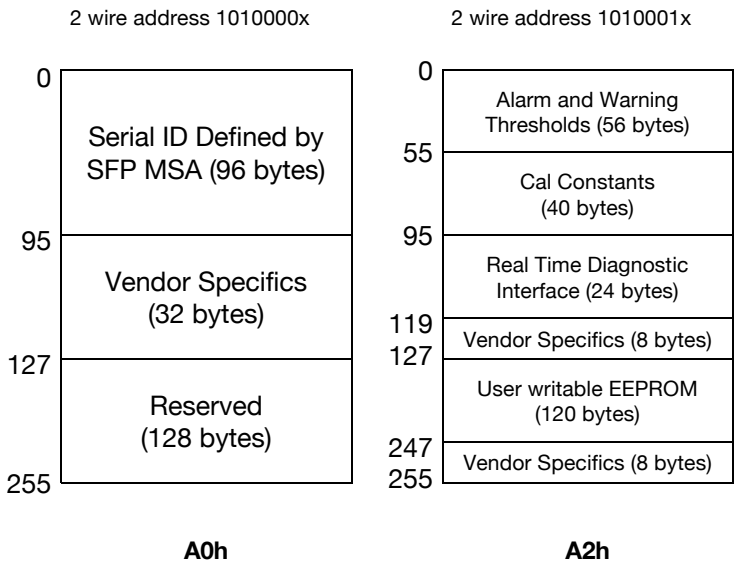

Figure 3. EEPROM of a SFP+

9. Ordering Information

Part Number	Description
SPD17080100D	SFP+ DWDM Dual Fibre, **Tx 1563.86nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD18080100D	SFP+ DWDM Dual Fibre, **Tx 1563.05nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD19080100D	SFP+ DWDM Dual Fibre, **Tx 1562.23nm (**DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD20080100D	SFP+ DWDM Dual Fibre, **Tx 1561.42nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD21080100D	SFP+ DWDM Dual Fibre, **Tx 1560.61nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD22080100D	SFP+ DWDM Dual Fibre, **Tx 1559.79nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD23080100D	SFP+ DWDM Dual Fibre, **Tx 1558.98nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD24080100D	SFP+ DWDM Dual Fibre**, Tx 1558.17nm (**DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD25080100D	SFP+ DWDM Dual Fibre, **Tx 1557.36nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD26080100D	SFP+ DWDM Dual Fibre, **Tx 1556.56nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD27080100D	SFP+ DWDM Dual Fibre, **Tx 1555.75nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD28080100D	SFP+ DWDM Dual Fibre, **Tx 1554.94nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD29080100D	SFP+ DWDM Dual Fibre, **Tx 1554.13nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD30080100D	SFP+ DWDM Dual Fibre, **Tx 1553.33nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD31080100D	SFP+ DWDM Dual Fibre, **Tx 1552.52nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD32080100D	SFP+ DWDM Dual Fibre, **Tx 1551.72nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD33080100D	SFP+ DWDM Dual Fibre, **Tx 1550.92nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD34080100D	SFP+ DWDM Dual Fibre, **Tx 1550.12nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD35080100D	SFP+ DWDM Dual Fibre, **Tx 1549.32nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD36080100D	SFP+ DWDM Dual Fibre, **Tx 1548.52nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD37080100D	SFP+ DWDM Dual Fibre, **Tx 1547.72nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD38080100D	SFP+ DWDM Dual Fibre, **Tx 1546.92nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD39080100D	SFP+ DWDM Dual Fibre, **Tx 1546.12nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD40080100D	SFP+ DWDM Dual Fibre, **Tx 1545.32nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD41080100D	SFP+ DWDM Dual Fibre, **Tx 1544.53nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD42080100D	SFP+ DWDM Dual Fibre, **Tx 1543.73nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD43080100D	SFP+ DWDM Dual Fibre, **Tx 1542.94nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD44080100D	SFP+ DWDM Dual Fibre, **Tx 1542.14nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD45080100D	SFP+ DWDM Dual Fibre, **Tx 1541.35nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD46080100D	SFP+ DWDM Dual Fibre, **Tx 1540.56nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD47080100D	SFP+ DWDM Dual Fibre, **Tx 1539.77nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD48080100D	SFP+ DWDM Dual Fibre, **Tx 1538.98nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD49080100D	SFP+ DWDM Dual Fibre, **Tx 1538.19nm (**DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD50080100D	SFP+ DWDM Dual Fibre, **Tx 1537.4nm** (DWDM EML) , Rx (APD), maximum distance 80km,

	power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD51080100D	SFP+ DWDM Dual Fibre, **Tx 1536.61nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD52080100D	SFP+ DWDM Dual Fibre, **Tx 1535.82nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD53080100D	SFP+ DWDM Dual Fibre, **Tx 1535.04nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD54080100D	SFP+ DWDM Dual Fibre, **Tx 1534.25nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD55080100D	SFP+ DWDM Dual Fibre, **Tx 1533.47nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD56080100D	SFP+ DWDM Dual Fibre, **Tx 1532.68nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD57080100D	SFP+ DWDM Dual Fibre, **Tx 1531.90nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD58080100D	SFP+ DWDM Dual Fibre, **Tx 1531.12nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD59080100D	SFP+ DWDM Dual Fibre, **Tx 1530.33nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD60080100D	SFP+ DWDM Dual Fibre, **Tx 1529.55nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD61080100D	SFP+ DWDM Dual Fibre**, Tx 1528.77nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **0°C to 70°C**, DDM
SPD17080102D	SFP+ DWDM Dual Fibre, **Tx 1563.86nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD18080102D	SFP+ DWDM Dual Fibre, **Tx 1563.05nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD19080102D	SFP+ DWDM Dual Fibre, **Tx 1562.23nm (**DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD20080102D	SFP+ DWDM Dual Fibre, **Tx 1561.42nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD21080102D	SFP+ DWDM Dual Fibre, **Tx 1560.61nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD22080102D	SFP+ DWDM Dual Fibre, **Tx 1559.79nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD23080102D	SFP+ DWDM Dual Fibre, **Tx 1558.98nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD24080102D	SFP+ DWDM Dual Fibre**, Tx 1558.17nm (**DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD25080102D	SFP+ DWDM Dual Fibre, **Tx 1557.36nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD26080102D	SFP+ DWDM Dual Fibre, **Tx 1556.56nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD27080102D	SFP+ DWDM Dual Fibre, **Tx 1555.75nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD28080102D	SFP+ DWDM Dual Fibre, **Tx 1554.94nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD29080102D	SFP+ DWDM Dual Fibre, **Tx 1554.13nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD30080102D	SFP+ DWDM Dual Fibre, **Tx 1553.33nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD31080102D	SFP+ DWDM Dual Fibre, **Tx 1552.52nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD32080102D	SFP+ DWDM Dual Fibre, **Tx 1551.72nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD33080102D	SFP+ DWDM Dual Fibre, **Tx 1550.92nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD34080102D	SFP+ DWDM Dual Fibre, **Tx 1550.12nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD35080102D	SFP+ DWDM Dual Fibre, **Tx 1549.32nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD36080102D	SFP+ DWDM Dual Fibre, **Tx 1548.52nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD37080102D	SFP+ DWDM Dual Fibre, **Tx 1547.72nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD38080102D	SFP+ DWDM Dual Fibre, **Tx 1546.92nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD39080102D	SFP+ DWDM Dual Fibre, **Tx 1546.12nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD40080102D	SFP+ DWDM Dual Fibre, **Tx 1545.32nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM

SPD41080102D	SFP+ DWDM Dual Fibre, **Tx 1544.53nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD42080102D	SFP+ DWDM Dual Fibre, **Tx 1543.73nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD43080102D	SFP+ DWDM Dual Fibre, **Tx 1542.94nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD44080102D	SFP+ DWDM Dual Fibre, **Tx 1542.14nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD45080102D	SFP+ DWDM Dual Fibre, **Tx 1541.35nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD46080102D	SFP+ DWDM Dual Fibre, **Tx 1540.56nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD47080102D	SFP+ DWDM Dual Fibre, **Tx 1539.77nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD48080102D	SFP+ DWDM Dual Fibre, **Tx 1538.98nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD49080102D	SFP+ DWDM Dual Fibre, **Tx 1538.19nm (**DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD50080102D	SFP+ DWDM Dual Fibre, **Tx 1537.4nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD51080102D	SFP+ DWDM Dual Fibre, **Tx 1536.61nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD52080102D	SFP+ DWDM Dual Fibre, **Tx 1535.82nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD53080102D	SFP+ DWDM Dual Fibre, **Tx 1535.04nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD54080102D	SFP+ DWDM Dual Fibre, **Tx 1534.25nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD55080102D	SFP+ DWDM Dual Fibre, **Tx 1533.47nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD56080102D	SFP+ DWDM Dual Fibre, **Tx 1532.68nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD57080102D	SFP+ DWDM Dual Fibre, **Tx 1531.90nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD58080102D	SFP+ DWDM Dual Fibre, **Tx 1531.12nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD59080102D	SFP+ DWDM Dual Fibre, **Tx 1530.33nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD60080102D	SFP+ DWDM Dual Fibre, **Tx 1529.55nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD61080102D	SFP+ DWDM Dual Fibre**, Tx 1528.77nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, **-40°C to 85°C**, DDM
SPD1708010GD	SFP+ DWDM Dual Fibre, **Tx 1563.86nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD1808010GD	SFP+ DWDM Dual Fibre, **Tx 1563.05nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD1908010GD	SFP+ DWDM Dual Fibre, **Tx 1562.23nm (**DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD2008010GD	SFP+ DWDM Dual Fibre, **Tx 1561.42nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD2108010GD	SFP+ DWDM Dual Fibre, **Tx 1560.61nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD2208010GD	SFP+ DWDM Dual Fibre, **Tx 1559.79nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD2308010GD	SFP+ DWDM Dual Fibre, **Tx 1558.98nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD2408010GD	SFP+ DWDM Dual Fibre**, Tx 1558.17nm (**DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD2508010GD	SFP+ DWDM Dual Fibre, **Tx 1557.36nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD2608010GD	SFP+ DWDM Dual Fibre, **Tx 1556.56nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD2708010GD	SFP+ DWDM Dual Fibre, **Tx 1555.75nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD2808010GD	SFP+ DWDM Dual Fibre, **Tx 1554.94nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD2908010GD	SFP+ DWDM Dual Fibre, **Tx 1554.13nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD3008010GD	SFP+ DWDM Dual Fibre, **Tx 1553.33nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD3108010GD	SFP+ DWDM Dual Fibre, **Tx 1552.52nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware

SPD3208010GD	SFP+ DWDM Dual Fibre, **Tx 1551.72nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD3308010GD	SFP+ DWDM Dual Fibre, **Tx 1550.92nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD3408010GD	SFP+ DWDM Dual Fibre, **Tx 1550.12nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD3508010GD	SFP+ DWDM Dual Fibre, **Tx 1549.32nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD3608010GD	SFP+ DWDM Dual Fibre, **Tx 1548.52nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD3708010GD	SFP+ DWDM Dual Fibre, **Tx 1547.72nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD3808010GD	SFP+ DWDM Dual Fibre, **Tx 1546.92nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD3908010GD	SFP+ DWDM Dual Fibre, **Tx 1546.12nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4008010GD	SFP+ DWDM Dual Fibre, **Tx 1545.32nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4108010GD	SFP+ DWDM Dual Fibre, **Tx 1544.53nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4208010GD	SFP+ DWDM Dual Fibre, **Tx 1543.73nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4308010GD	SFP+ DWDM Dual Fibre, **Tx 1542.94nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4408010GD	SFP+ DWDM Dual Fibre, **Tx 1542.14nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4508010GD	SFP+ DWDM Dual Fibre, **Tx 1541.35nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4608010GD	SFP+ DWDM Dual Fibre, **Tx 1540.56nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4708010GD	SFP+ DWDM Dual Fibre, **Tx 1539.77nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4808010GD	SFP+ DWDM Dual Fibre, **Tx 1538.98nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4908010GD	SFP+ DWDM Dual Fibre, **Tx 1538.19nm (**DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD5008010GD	SFP+ DWDM Dual Fibre, **Tx 1537.4nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD5108010GD	SFP+ DWDM Dual Fibre, **Tx 1536.61nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD5208010GD	SFP+ DWDM Dual Fibre, **Tx 1535.82nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD5308010GD	SFP+ DWDM Dual Fibre, **Tx 1535.04nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD5408010GD	SFP+ DWDM Dual Fibre, **Tx 1534.25nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD5508010GD	SFP+ DWDM Dual Fibre, **Tx 1533.47nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD5608010GD	SFP+ DWDM Dual Fibre, **Tx 1532.68nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD5708010GD	SFP+ DWDM Dual Fibre, **Tx 1531.90nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD5808010GD	SFP+ DWDM Dual Fibre, **Tx 1531.12nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD5908010GD	SFP+ DWDM Dual Fibre, **Tx 1530.33nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD6008010GD	SFP+ DWDM Dual Fibre, **Tx 1529.55nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD6108010GD	SFP+ DWDM Dual Fibre**, Tx 1528.77nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD1708010AD	SFP+ DWDM Dual Fibre, **Tx 1563.86nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD1808010AD	SFP+ DWDM Dual Fibre, **Tx 1563.05nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD1908010AD	SFP+ DWDM Dual Fibre, **Tx 1562.23nm (**DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD2008010AD	SFP+ DWDM Dual Fibre, **Tx 1561.42nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD2108010AD	SFP+ DWDM Dual Fibre, **Tx 1560.61nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD2208010AD	SFP+ DWDM Dual Fibre, **Tx 1559.79nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware

SPD2308010AD	SFP+ DWDM Dual Fibre, **Tx 1558.98nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD2408010AD	SFP+ DWDM Dual Fibre**, Tx 1558.17nm (**DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD2508010AD	SFP+ DWDM Dual Fibre, **Tx 1557.36nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD2608010AD	SFP+ DWDM Dual Fibre, **Tx 1556.56nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD2708010AD	SFP+ DWDM Dual Fibre, **Tx 1555.75nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD2808010AD	SFP+ DWDM Dual Fibre, **Tx 1554.94nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD2908010AD	SFP+ DWDM Dual Fibre, **Tx 1554.13nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD3008010AD	SFP+ DWDM Dual Fibre, **Tx 1553.33nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD3108010AD	SFP+ DWDM Dual Fibre, **Tx 1552.52nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD3208010AD	SFP+ DWDM Dual Fibre, **Tx 1551.72nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD3308010AD	SFP+ DWDM Dual Fibre, **Tx 1550.92nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD3408010AD	SFP+ DWDM Dual Fibre, **Tx 1550.12nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD3508010AD	SFP+ DWDM Dual Fibre, **Tx 1549.32nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD3608010AD	SFP+ DWDM Dual Fibre, **Tx 1548.52nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD3708010AD	SFP+ DWDM Dual Fibre, **Tx 1547.72nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD3808010AD	SFP+ DWDM Dual Fibre, **Tx 1546.92nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD3908010AD	SFP+ DWDM Dual Fibre, **Tx 1546.12nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4008010AD	SFP+ DWDM Dual Fibre, **Tx 1545.32nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4108010AD	SFP+ DWDM Dual Fibre, **Tx 1544.53nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4208010AD	SFP+ DWDM Dual Fibre, **Tx 1543.73nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4308010AD	SFP+ DWDM Dual Fibre, **Tx 1542.94nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4408010AD	SFP+ DWDM Dual Fibre, **Tx 1542.14nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4508010AD	SFP+ DWDM Dual Fibre, **Tx 1541.35nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4608010AD	SFP+ DWDM Dual Fibre, **Tx 1540.56nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4708010AD	SFP+ DWDM Dual Fibre, **Tx 1539.77nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4808010AD	SFP+ DWDM Dual Fibre, **Tx 1538.98nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD4908010AD	SFP+ DWDM Dual Fibre, **Tx 1538.19nm (**DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD5008010AD	SFP+ DWDM Dual Fibre, **Tx 1537.4nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD5108010AD	SFP+ DWDM Dual Fibre, **Tx 1536.61nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD5208010AD	SFP+ DWDM Dual Fibre, **Tx 1535.82nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD5308010AD	SFP+ DWDM Dual Fibre, **Tx 1535.04nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD5408010AD	SFP+ DWDM Dual Fibre, **Tx 1534.25nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD5508010AD	SFP+ DWDM Dual Fibre, **Tx 1533.47nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD5608010AD	SFP+ DWDM Dual Fibre, **Tx 1532.68nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD5708010AD	SFP+ DWDM Dual Fibre, **Tx 1531.90nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD5808010AD	SFP+ DWDM Dual Fibre, **Tx 1531.12nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware

SPD5908010AD	SFP+ DWDM Dual Fibre, **Tx 1530.33nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD6008010AD	SFP+ DWDM Dual Fibre, **Tx 1529.55nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware
SPD6108010AD	SFP+ DWDM Dual Fibre**, Tx 1528.77nm** (DWDM EML) , Rx (APD), maximum distance 80km, power budget 23dB, 10x Gigabit Ethernet, LC connector, 0°C to 70°C, DDM, Specific Firmware

10. Document Revision Information

Revision	Description
A	Initial release
B	Specification updated to include 8x Fiber Channel compatibility
C	Ordering information tab updated with the “G” and “A” versions
D	Industrial temperature part SPDxx080102D added
E	Specification updated to include CPRI compatibility

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