

XFCxxB10100D - XFP Dual Fibre CWDM

CWDM / 10dB / 10 Gigabit Ethernet

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









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.

Overview

XFCxxB10100D is a high performance transceiver module for 10x Gigabit Ethernet data links over a single mode fibre pair. The power budget is 10dB end of life (EOL). The transmitter is a CWDM DFB laser, the receiver is a PIN photodiode.

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

Features

- XFP Multi-Source Agreement compliant (INF-8077)
- Hot pluggable XFP footprint
- Serial ID functionality supported according to INF-8077
- Dual LC connector
- CWDM DFB transmitter
- PIN receiver
- Power budget >10dB
- Operating temperature range 0°C to 70°C
- Power dissipation < 3.5W
- Digital diagnostics monitoring (DDM)

Figure 1. XFP Dual Fiber (non-binding illustration)

Applications

- 10GBASE-LR/-LW
- 10×Fiber Channel

Optical Interface

P/N	Wavelength [nm]	Output Optical Power ² [dBm]	Optical Receiver Sensitivity ³ [dBm]	Optical Receiver Overload ⁴ [dBm]	Transmitter Dispersion Penalty [dB]	Power Budget ² [dB]
XFCxxB10100D	ITU CWDM	-5 to 0	≤ -15	0	2	≥ 10

Distance is estimated assuming typical optical losses after decent quality fibre deployment; Only optical budget value is guaranteed.

^{2.} EOL, over operating temperature range

Measured at 10.3125Gbps, PRBS 2³¹-1, BER≤10⁻¹² 3.

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

XFCxxB10100D_RevA



5. Technical Parameters

Parameter	Min	Тур	Max	Unit	Notes
Storage temperature	-40		85	°C	
Operating Case Temperature	0		70		
Relative Humidity	5		95	%	Non condensing
Power Supply Voltage	3.15	3.3	3.45	V	
Power Supply Current			750	mA	
Power Dissipation			2.5	W	
Storage temperature	-40		85	°C	
Operating Case Temperature	0		70		

5.2. Transmitter Optical Specifications					
Parameter	Min	Тур	Max	Unit	Notes
Average Output Power	-5		0	dBm	5
Centre Wavelength Range	1270		1610	nm	
Wavelength	λ _T - 6.5	λт	λτ +7.5	nm	6
Spectral Width (-20dB)			1	nm	
Extinction Ratio	3.5			dB	
Dispersion Penalty			2	dB	

Output power coupled into a 9/125 μm single-mode fibre

^{6.} λ_T according to the ITU-T CWDM grid, see section 9 for details

3.3. Receiver Optical Specifications						
Parameter	Min	Тур	Max	Unit	Notes	
Receiver Sensitivity			-15	dBm	7	
Receiver Overload	0			dBm	7	
Wavelength of Operation	1260		1620	nm		

^{7.} Measured at 10.3125Gbps, PRBS 2³¹-1, BER≤10⁻¹²

6. Electrical Connector

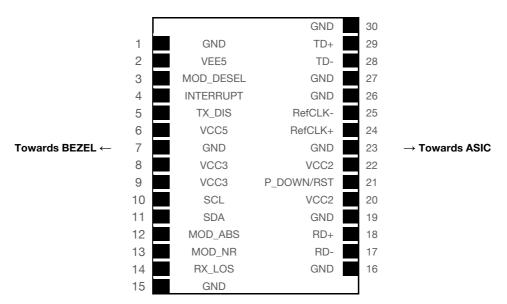


Figure 2. Transceiver Electrical Pad Layout





7. Module Electrical Pin Definition

XFP MSA (INF-8077i)

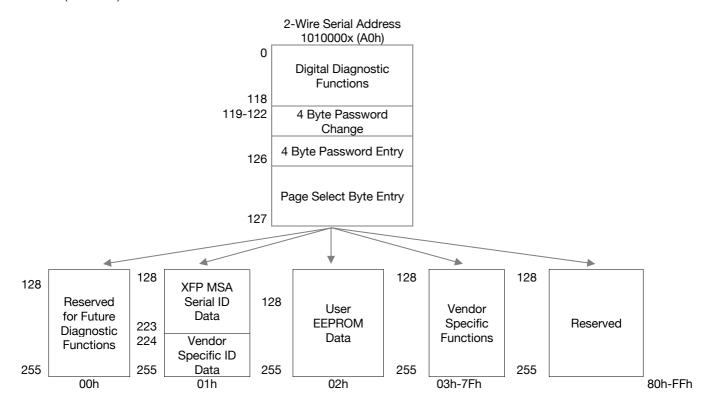
Pin Number	Name	Description		
1	GND	Module Ground		
2	VEE5	Not Used		
3	Mod_DeSeL	Module De-select		
4	Interrupt	Indicator of important condition		
5	TX_DIS	Transmitter Disable		
6	VCC5	Not Used		
7	GND	Module Ground		
8	VCC3	+3.3V Power Supply		
9	VCC3	+3.3V Power Supply		
10	SCL	2-Wire Serial Interface Clock		
11	SDA	2-Wire Serial Interface Data		
12	Mod_Abs	Indicates Module is not present		
13	Mod_NR	Module Not Ready		
14	RX_LOS	Receiver Loss of Signal Indicator		
15	GND	Module Ground		
16	GND	Module Ground		
17	RD-	Receiver Inverted Data Output		
18	RD+	Receiver Non-Inverted Data Output		
19	GND	Module Ground		
20	VCC2	Not Used		
21	P_Down/RST	Power Down / Reset		
22	VCC2	Not Used		
23	GND	Module Ground		
24	RefCLK+	Not Used		
25	RefCLK-	Not Used		
26	GND	Module Ground		
27	GND	Module Ground		
28	TD-	Transmitter Inverted Data Input		
29 TD+		Transmitter Non-Inverted Data Input		
30	GND	Module Ground		

XFCxxB10100D_RevA



8. EEPROM

XFP MSA (INF-8077)



XFCxxB10100D RevA



9. Transmission Reach

The actual transmission reach is depending on the CWDM channel used, due to the wavelength dependent dispersion in the fibre path. The table below shows the *estimated* transmission reach for CWDM channels 27 to 61. **NB:** Distances are purely indicative and only valid for G.652 fibre. Only the optical power budget is guaranteed. Additional

NB: Distances are purely indicative and only valid for G.652 fibre. Only the optical power budget is guaranteed. Additional optical insertion loss from CWDM filters, splices, optical connectors etc. is not included.

CWDM Channel	Nominal Wavelength [nm]	Estimated Reach [km]
27	1270	10
29	1290	10
31	1310	10
33	1330	10
35	1350	10
37	1370	10
39	1390	10
41	1410	10
43	1430	10
45	1450	10
47	1470	10
49	1490	10
51	1510	10
53	1530	9
55	1550	8
57	1570	8
59	1590	7
61	1610	7

XFCxxB10100D_RevA



10. Ordering Information

XFC27B10100D	Part Number	Description
To Gigabit Ethernet, LC connector, 0°C to 70°C, DDM	XFC27B10100D	, , , , , , , , , , , , , , , , , , , ,
XFC29B10100D XFP CWDM dual fibre, Tx 1310mm (CWDM DFB), Rx (PIN), power budget 10dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM XFC33B10100D XFP CWDM dual fibre, Tx 1330nm (CWDM DFB), Rx (PIN), power budget 10dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM XFC37B10100D XFP CWDM dual fibre, Tx 1330nm (CWDM DFB), Rx (PIN), power budget 10dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM XFC37B10100D XFP CWDM dual fibre, Tx 1370nm (CWDM DFB), Rx (PIN), power budget 10dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM XFC39B10100D XFP CWDM dual fibre, Tx 1390nm (CWDM DFB), Rx (PIN), power budget 10dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM XFC41B10100D XFP CWDM dual fibre, Tx 1440nm (CWDM DFB), Rx (PIN), power budget 10dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM XFC43B10100D XFP CWDM dual fibre, Tx 1430nm (CWDM DFB), Rx (PIN), power budget 10dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM XFC45B10100D XFP CWDM dual fibre, Tx 1470nm (CWDM DFB), Rx (PIN), power budget 10dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM XFC47B10100D XFP CWDM dual fibre, Tx 1470nm (CWDM DFB), Rx (PIN), power budget 10dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM XFC49B10100D XFP CWDM dual fibre, Tx 1470nm (CWDM DFB), Rx (PIN), power budget 10dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM XFC49B10100D XFP CWDM dual fibre, Tx 1450nm (CWDM DFB), Rx (PIN), power budget 10dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM XFC5B10100D XFP CWDM dual fibre, Tx 150nm (CWDM DFB), Rx (PIN), power budget 10dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM XFC5B10100D XFP CWDM dual fibre, Tx 1550nm (CWDM DFB), Rx (PIN), power budget 10dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM XFC5B10100D XFP CWDM dual fibre, Tx 1550nm (CWDM DFB), Rx (PIN), power budget 10dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM XFC5B10100D XFP CWDM dual fibre, Tx 1550nm (CWDM DFB), Rx (PIN), power budget 10dB, 10 Gigabit Ethernet	j.: 02:2:0:002	
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THE CONTROL TO Gigabit Ethernet, LC connector, 0°C to 70°C, DDM XFC59B10100D XFC CMDM dual fibre, Tx 1590nm (CWDM DFB), Rx (PIN), power budget 10dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM XFC61B10100D XFC CMDM dual fibre, Tx 1610nm (CWDM DFB), Rx (PIN), power budget 10dB,	XFC33B10100D	10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
XFC59B10100D XFP CWDM dual fibre, Tx 1590nm (CWDM DFB), Rx (PIN), power budget 10dB, 10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM XFP CWDM dual fibre, Tx 1610nm (CWDM DFB), Rx (PIN), power budget 10dB, XFP CWDM dual fibre, Tx 1610nm (CWDM DFB), Rx (PIN), power budget 10dB,	VE057D40400D	XFP CWDM dual fibre, Tx 1570nm (CWDM DFB), Rx (PIN), power budget 10dB,
10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM XFC CMDM dual fibre, Tx 1610nm (CWDM DFB), Rx (PIN), power budget 10dB,	XFC5/B10100D	10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM
10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM XFC CMDM dual fibre, Tx 1610nm (CWDM DFB), Rx (PIN), power budget 10dB,	VEOF00101000	XFP CWDM dual fibre, Tx 1590nm (CWDM DFB), Rx (PIN), power budget 10dB,
XFP CWDM dual fibre, Tx 1610nm (CWDM DFB), Rx (PIN), power budget 10dB,	XFC29B10100D	, , , , , , , , , , , , , , , , , , , ,
	VE004B40400E	
	XFC61B10100D	10 Gigabit Ethernet, LC connector, 0°C to 70°C, DDM

11. Document Revision Information

Revision		Description
Α		Initial release

