Base Product



CommScope FLX™ GPON Optical Module, class C+, SFP (Small Formfactor Pluggable) package with SC receptacle optical interface, 2488 Mbps downstream Tx/1244 Mbps upstream Rx

FEATURES

- Support ITU-T G.984.2 (08/2019) GPON class C+
- SFP (Small Form-factor Pluggable) package with SC receptacle optical interface
- 1490nm continuous-mode transmitter with DFB laser
- 1310nm burst-mode receiver with APD-TIA
- 2488 Mbps downstream Tx/1244 Mbps upstream Rx
- Digital diagnostic SFF-8472 compliant
- +3.3V power supplies
- RoHS With Exemption 7C(I)
- Operating case temperature: Industrial temp -40 ~ 90°C

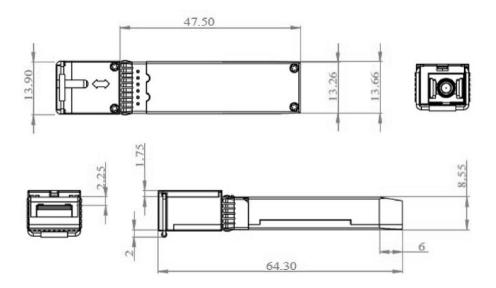
Product Classification

Product Type	pe Optical transceiver	
Product Brand	CommScope FLX™	
Product Series	SFP	
General Specifications		
Reflectance, maximum	−20 dB @ 1310 nm −20 dB @ 1490 nm	
Crosstalk at 1490 nm to 1310 nm	-46 dB	
Data Rate	1.244 Gbit/s (Rx) 2.488 Gbit/s (Tx)	
Transmission Distance, maximum	20 km	
Dimensions		
Height	12.294 mm 0.484 in	
Width	13.894 mm 0.547 in	
Length	64.287 mm 2.531 in	

Dimension Drawing

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Port Configuration

Pin	Logic	Description
1	VeeT	Transmitter Ground
2	TX Fault	Transmitter Fault Indication
3	TX Disable	Transmitter Disable
4	MOD-DEF2	SDA
5	MOD-DEF1	SCL
6	MOD-DEF0	Connected to Ground in the transceiver
7	Reset	Receiver Reset, Active High
8	Rx_LOS	High : Loss of signal; Low: Signal detected
9	RSSI Trigger	LVTTL Active high
10	VeeR	Receiver Ground
11	VeeR	Receiver Ground
12	RD-	Inv. Receiver Data Out
13	RD+	Receiver Data Out
14	VeeR	Received Ground
15	VccR	Receiver Vcc
16	VccT	Transmitter Vcc
17	VeeT	Transmitter Ground
18	TD+	Transmit Data In
19	TD-	Inv. Transmit Data In
20	VeeT	Transmitter Ground

Electrical Specifications

Input Voltage	+3.14 to +3.46 Vdc
Input Voltage, maximum	3.6 V
Power Consumption, maximum	1.5

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Receiver Data Output Differential Swing Range	600-1600 mVpp
Receiver Loss of Signal Assert Time, maximum	12.8 ns
Receiver Loss of Signal de-Assert Time, maximum	50 ns
Receiver Loss of Signal Detected Voltage High, minimum	2.4 V
Receiver Loss of Signal Detected Voltage Low, maximum	0.4 V
Receiver Output Differential Impedance Range	80-120 ohm
Receiver Time to Initialize, maximum	300 ms
Transmitter Data Input Differential Swing Range	200-1600 mVpp
Transmitter Disable Voltage High, minimum	2 V
Transmitter Disable Voltage Low, maximum	0.8 V
Transmitter Fault Indication Voltage High, mminimum	2.4 V
Transmitter Fault Indication Voltage Low, maximum	0.4 V
Transmitter Input Differential Impedance Range	90-100 ohm

Optical Specifications

Optical Port Interface SC/	(UPC
Receiver Burst-Mode Dynamic Range +15	6 dB to +20 dB
Receiver Center Wavelength 131	0 nm nominal (1290–1330 nm)
Receiver Loss of Signal Assert Level, minimum -45	ō dBm
Receiver Loss of Signal de-Assert, maximum -33	3 dBm
Receiver Saturation, minimum -12	2 dBm
Receiver CID, minimum 72	
Receiver Sensitivity, maximum -32	2 dBm
Receiver Rx Reflectance, maximum -20	dB
Receiver Reflected Power Tolerance, maximum 10 c	dB
Transmitter Center Wavelength149	00 nm nominal (1480–1500 nm)
Transmitter Data Rate2.48	38 Gb/s
Transmitter Extinction Ratio, minimum8.2	dB
Transmitter Side Mode Suppression, minimum30 c	dB
Transmitter Launch Power Range+3 t	to +7 dBm
Transmitter Launch Power OFF Transmitter, maximum -40) dBm
Transmitter Incident Light Power Tolerance-15	dB

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Environmental Specifications

Operating Temperature	-40 °C to +90 °C (-40 °F to +194 °F)
Storage Temperature	-40 °C to +90 °C (-40 °F to +194 °F)
Operating Humidity	5%-85%
Safety Standard	GPON ITU-T G.984

Regulatory Compliance/Certifications

Classification

Agency

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

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