

10Gbps XFP Optical Transceiver RTX226-480



The RTX226-480 is a hot pluggable 10Gbps small-form-factor transceiver module integrated with the high performance cooled 1550nm EML transmitter and high sensitivity APD receiver. It is compliant to INF-8077i XFP Multi-source Agreement(MSA). The module is a multirate optical transceiver, intended to support Telecom and Datacom applications.

Features

- Data rate from 9.95 Gbps to 11.3Gbps
- 1550nm EML TOSA and APD ROSA
- Industry-standard, protocol-independent, XFI interface
- Transmission distance up to 80km
- LC duplex receptacle package
- Hot pluggable
- Built in digital diagnostic functions
- Operating case temperature range: -5°C~70°C
- RoHS compliant

Applications

- SONET OC-192&SDH STM 64
- 10G Base-ZR
- 10Gigabit Fiber Channel

Specifications

(Tested under recommended operating conditions, unless otherwise noted)

Parameter		Symbol	Unit	Value		
				Min	Typ	Max
Optical Transmitter Characteristics						
Data Rate		-	Gbps	9.95	-	11.3
Optical Power		P ₀	dBm	0	-	4
Center Wavelength Range		c	nm	1530	1550	1565
Extinction Ratio		ER	dB	9	-	-
Spectral Width (-20dB)			nm	-	-	0.4
SMSR		-	dB	30	-	-
Relative Intensity Noise		RIN	dB/Hz _z	-	-	-128
Eye Diagram		Compliant with ITU-T G.691				
Dispersion Penalty ¹		-	dB	-	-	2
Optical Receiver Characteristics						
Data Rate		-	Gbps	9.95	-	11.3
Center Wavelength Range		c	nm	1260	-	1600
Receiver Sensitivity ²		S	dBm	-	-	-24
Overload Input Optical Power		-	dBm	-7	-	-
Receiver Reflectance		-	dB	-	-	-30
LOS	Optical Dessert	-	dBm	-	-	-27
	Optical Assert	-		-37	-	-
LOS Hysteresis		-	dB	0.5	-	6
Note1: 80KmSMF,9.95Gbps						
Note2:Ber<10 ⁻¹² ,2 ³¹ -1 PRBS NRZ,1550nm,ER=9dB						

Standards

- XFP MSA (INF-8077i)
- IEEE802.3ae
- ITU-T G.691

10Gbps XFP Optical Transceiver RTX226-480

Ordering Information

Absolute Maximum Ratings 30 T T J 90 T 0 5 0 2 . 6 8 6 0 9 . 3 4 3 5 2 7 1 5 9 1 7 5 2 re05 4

Parameter	Symbol	Unit	Min	Max
-----------	--------	------	-----	-----

10Gbps XFP Optical Transceiver RTX226-480

Low Speed Electrical Interface

Parameter

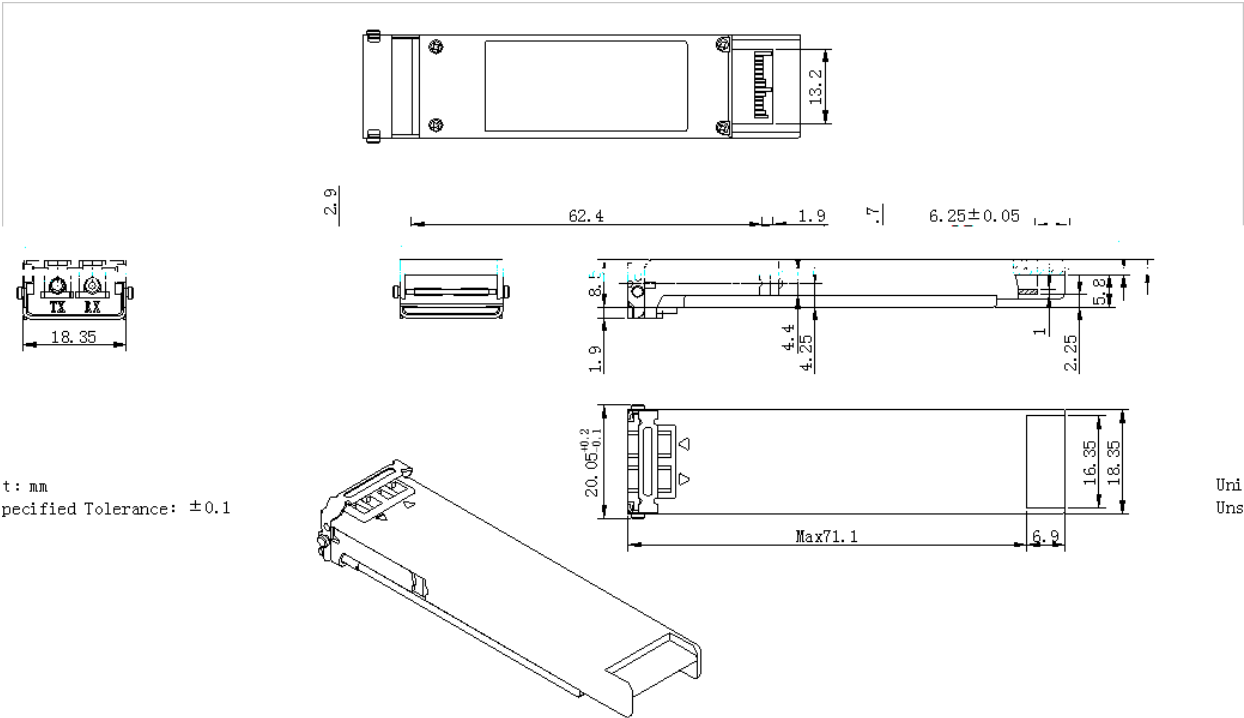
10Gbps XFP Optical Transceiver RTX226-480

Pin	Logic	Symbol	Name/Description	Note
1		GND	Module Ground	1
2		VEE5	Optional -5.2V Power Supply (Not Required)	
3	LVTTL-I	Mod_DeSel	Module De-select; When held low allows module to respond to 2-wire serial interface	
4	LVTTL-O	Interrupt	Interrupt; Indicates presence of an important condition which can be read over the 2-wire serial interface	2
5	LVTTL-I	TX_DIS	Transmitter Disable; Turns off transmitter laser output	
6		VCC5	+5V Power Supply	
7		GND	Module Ground	1
8		VCC3	+3.3V Power Supply	
9		VCC3	+3.3V Power Supply	
10	I/O	SCL	2	

10Gbps

10Gbps XFP Optical Transceiver RTX226-480

Package Outline



Regulatory Compliance

Feature