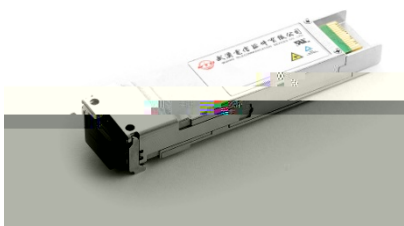


XGPON1 OLT Transceiver XFP Module



RTXM266-702 product is designed for OLT module based on XGPON technology. The product is an integrated module containing a micro-optic component and semiconductor material. The module could implement DDM function. It could be used at key locations in optical networks.

Features

- ° XFP package with SC receptacle optical interface compliant
- ° Hot-Pluggable
- ° 9.953Gbps downstream and 2.488Gbps upstream
- ° +3.3V single power supply
- ° ROHS Compliant

Applications

- ° Optical transceiver for N2a XGPON OLT

Standards

- ° ITU-T G.987
- ° MSA SFF-8077iv4.5

Specifications

Parameter	Symbol	Unit	Value		
			Min	typical	Max
Electrical Characteristics					
Supply Current	Icc	mA			
					+8
Center Wavelength Range	c	nm	1575	1577	1580
Extinction Ratio -10G	EX	dB	8.2		
Spectral Width(@-20dB)		nm			1
Side Mode Suppressing Ratio	SMSR	dB	30		
Eye Diagram	Complies with G.987.2				
Dispersion Penalty	-	dB			1.0
Pout @TX-Disable Asserted	Poff	dBm			-39
Optical receiver Characteristics					
Receiver Optical Wavelength	λIN	nm	1260	1270	1280
Receiver Sensitivity (note3)	S	dBm			-29.5
Overload Input Optical Power	Pin	dBm	-7		
SD Assert		dB			-30
SD De-assert		dB	-45		
Receiver Settling Time		ns			64
1. AC coupled internally; 2. DC coupled internally; 3. Measured with a PRBS 2 ²³ -1 NRZ test pattern, @2.488Gb/s, EX=9dB, BER<10 ⁻⁴ .					

Ordering Information

Part No	Specification								
	Package	Data rate	Laser	Power	Detector	Sensitivity	Temp	Reach	Other
RTXM266-702	XFP SC	9.953/2.5	EML	+4~-+8dBm	APD	< -29.5dBm	0~70	20km+	RoHS DDM

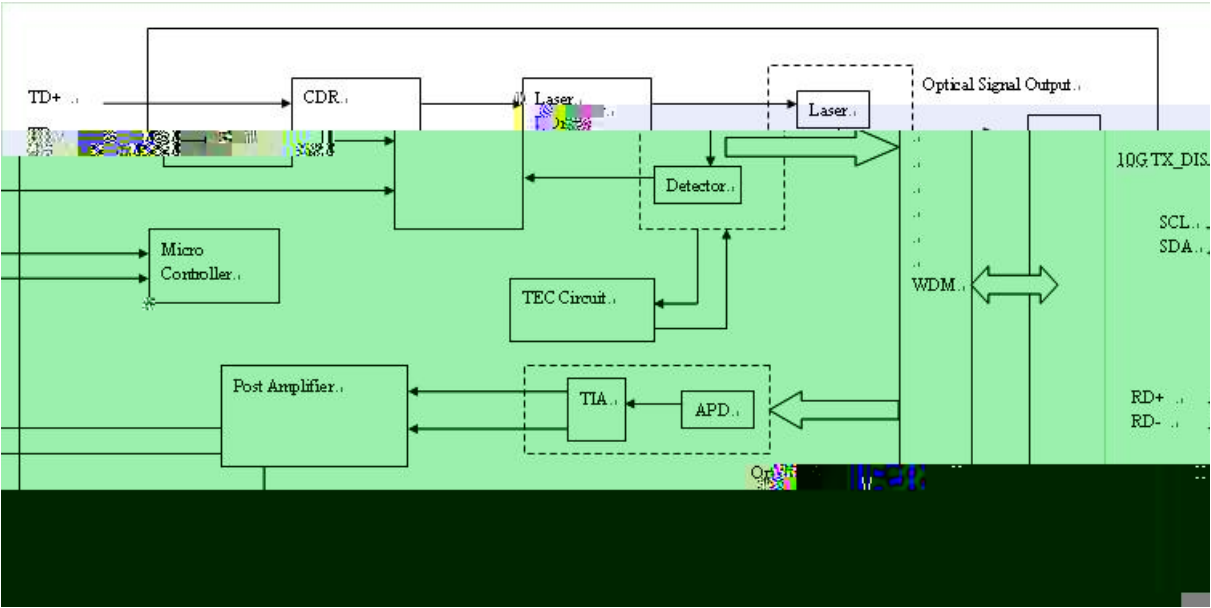
XGPON1 OLT Transceiver XFP Module

Absolute Maximum Ratings

Parameter	Symbol	Unit	Min	Max
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Recommended Operating Conditions

Principle diagram



Electric Ports Definition

XGPON1 OLT Transceiver XFP Module

Regulatory Compliance

Feature	TestMethod	Performance
RoHS	BSEN1122:2001 USEPAMETHOD3050B USEPAMETHOD3052 USEPAMETHOD3060A	Pb <1000ppm Cr6+ <1000ppm Hg <1000ppm PBB <1000ppm PBDE <1000ppm Cd <100ppm
Electrostatic Discharge(ESD) to the Electrical Pins	MIL STD883E Method 3015.7	Class1 (>1.5kV) HumanBody Model
Electrostatic Discharge(ESD) Immunity	IEC61000 2	Class2(>4.0kV)
Electromagnetic Interference (EMI)	CISPR22 ClassB FCC ClassB CENELECEN55022 VCCI Class1	Compliantwith standard
Immunity	IEC61000 3 Class2	Typicallyshowno measurableeffect from a 3 V/m field sweptfrom 80 to 1000MHzappliedto the transceiver without a chassisenclosure.