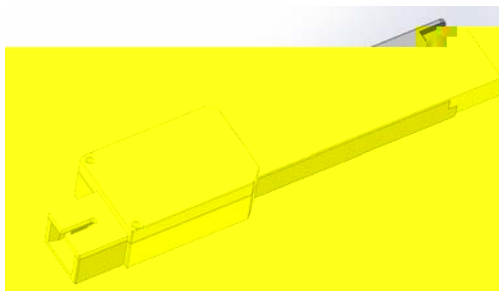


NG-PON2 ONU Optical Transceiver XFP Module



LVPECL Single Ended Data Input Swing		mV	100	-	800
CML Single Ended Data Output Swing		mV	200		600
Differential Data input impedance			-	100	-
Signal Level(LVTTL)	VOH	V	2.4	-	Vcc
	VOL	V	0	-	0.8
Optical transmitter Characteristics					
Data Rate		Mbps	--	2488.32	-
Wavelength Band Range 4		Q	nm	1532.68	- 1535.04
Center Frequency 4		c	Thz	195.6	- 195.3
Tuned Spectral Excursion			Ghz		20
Tuning Range			Ghz		400
Tuning Time (Channel to Channel)			msec		500
Launch Optical Power	type B 5	P _o	dBm	0	- +5
Off level light			dBm		-45
Burst turn on/off time		Ton/Toff	bit	-	- TBD
Extinction Ratio 1		EX	dB	8.2	- -
Eye Diagram		Compliant with ITU-T G.989.2			
Transmitter dispersion penalty 2		TDP	dB	-	- 1
Optical receiver Characteristics					
Data Rate		Mbps	-	9953.28	-
Center Wavelength Range 4		(c	nm	1596.34	- 1598.89
Tuning Time (Channel to Channel)			msec		100
Receiver Sensitivity 3		S	dBm	-	- -28.0
Overload Input Optical Power		Pin	dBm	-7.0	
LOS Optical Desert 23			dB	-	- -28.0

NG-PON2 ONU Optical Transceiver XFP Module

Ordering Information

Part No	Specifications								
	Package	Data rate	Laser	Optical Power	Detector	Sensitivity	Top	Reach	Others
RTXM166-903	XFP	2.48832G US 9.95328G DS	C-band tunable DFB	+0~ +5dBm(type B)	L-band tunable APD	-28.0dBm @10e-3	0~70°C	20km	DDM,RoHS

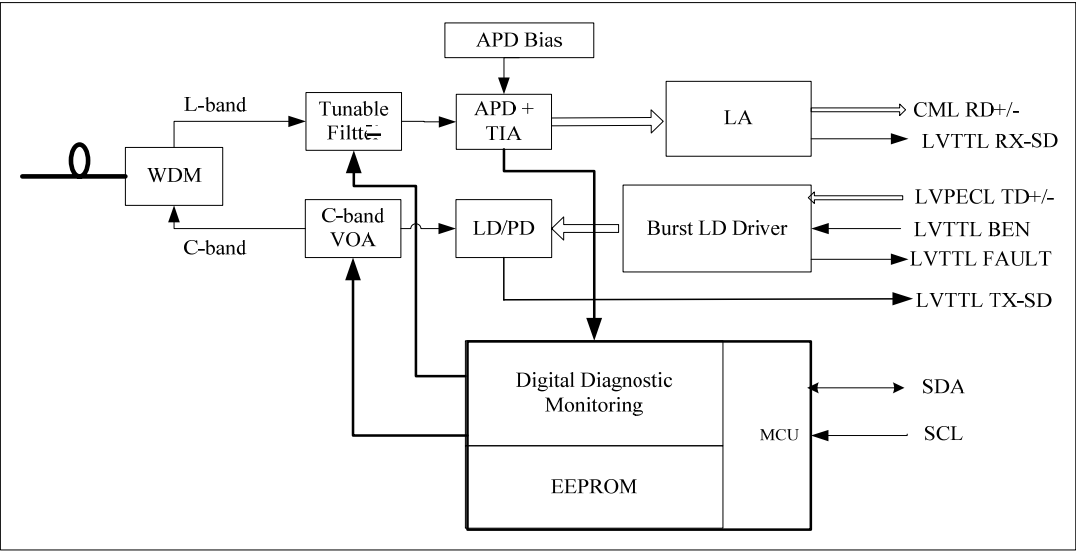
Absolute Maximum Ratings

Parameter	Symbol	Unit	Min	Max
Storage Temperature Range	Ts	oC	-40	+85
Relative Humidity	RH	%	5	95
Power Supply Voltage	Vcc	V	0	+4
Receiver Damage Threshold		dBm	+2	-

Recommended Operating Conditions

Parameter	Symbol	Unit	Min	Typ	Max
Operating Case Temperature Range	Tc	oC	0	-	70
Power Supply Voltage	Vcc	V	3.135	3.3	3.465

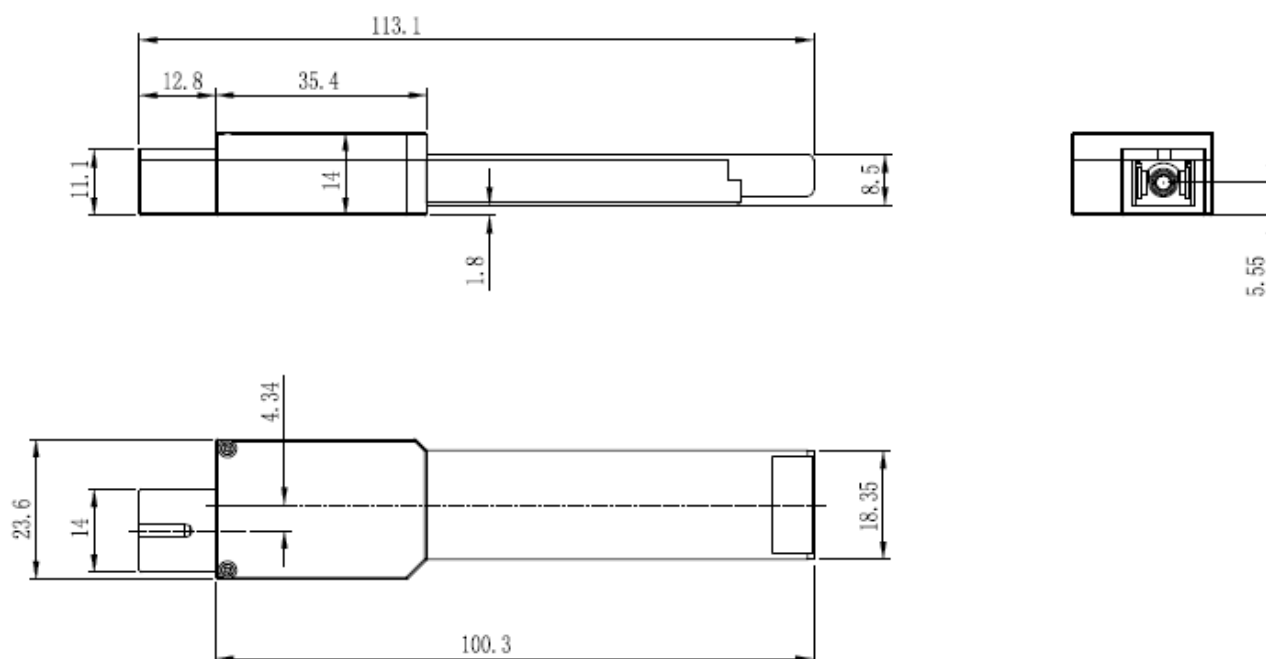
Principle diagram



Note: VOA is optional.

NG-PON2 ONU Optical Transceiver XFP Module

Package Outline(TBD)



Regulatory Compliance

Feature	Test Method	Performance
Electrostatic Discharge (ESD) to the Electrical Pins	MIL-STD-883E Method 3015.7	Class 1 (>1.5kV) – Human Body Model
Electrostatic Discharge (ESD) Immunity	IEC61000-4-2	LV4(Air discharge 15kV,Contact discharge 8kV) Performance criterion B
Electromagnetic Interference (EMI)	CISPR22 ITE Class B EN55022 Class B	Compliant with standards
Immunity	IEC61000-4-3 Class 2 EN55024	Typically show no measurable effect from a 3V/m field swept from 80 to 1000MHz applied to the transceiver without a chassis enclosure.
Eye Safety	FDA 21 CFR 1040.10 and 1040.11 UL TUV EN 60825-1	Compliant with Class 1 laser product