



RTXM266-600 product is designed for OLT module based on 10G EPON 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
 10.3125Gbps & 1.25Gbps downstream and 10Gbps & 1.25Gbps upstream
 +3.3V single power supply
 ROHS Compliant
 C-temp operating temperature

Applications

Optical transceiver for 10G & 1G/10&1G symmetric EPON OLT

Standards

IEEE 802.3av
 MSA SFF-8077iv4.5

Specifications

Parameter	Symbol	Unit	Value		
			Min	typical	Max
Electrical Characteristics					
Supply Current	I _{cc}	mA			1200
Optical transmitter Characteristics					
Launch Optical Power -10G	P _o	dBm	+2		+5
Center Wavelength Range -10G	λ _c	nm	1575	1577	1580
Extinction Ratio -10G	EX	dB	6		
Spectral Width(@ -20dB) -10G	Δλ	nm			1
Side Mode Suppressing Ratio -10G	SMSR	dB	30		
Eye Diagram -10G	Complies with IEEE 802.3av				
Dispersion Penalty -10G	-	dB			1.5
Launch Optical Power -1G	P _o	dBm	+2		+7
Center Wavelength Range -1G	λ _c	nm	1480	1490	1500
Extinction Ratio -1G	EX	dB	9		
Spectral Width(@ -20dB) -1G	Δλ	nm			1
Side Mode Suppressing Ratio -1G	SMSR	dB	30		
Eye Diagram -1G	Complies with IEEE 802.3ah				
Dispersion Penalty -1G	-	dB			2.3
Optical receiver Characteristics					
Receiver Sensitivity -10G note1	S	dBm			-28
Overload Input Optical Power -10G	P _{in}	dBm	-6		
Receiver Settling Time -10G		ns			800
Receiver Sensitivity -1G note2	S	dBm			-29.78
Overload Input Optical Power -1G	P _{in}	dBm	-9.3		
Receiver Settling Time -1G		ns			400
. Measured with a PRBS 2 ³¹ -1 NRZ test pattern, @ 10.3Gb/s, EX=8dB, BER<10 ⁻³ ; . Measured with a PRBS 2 ⁷ -1 NRZ test pattern, @ 1.25Gb/s, EX=10dB, BER<10 ⁻¹² .					

Ordering Information

PartNo	Specification								
	Package	Data rate	Laser	Power	Detector	Sensitivity	Temp	Reach	Other
RTXM266-600	XFP SC	10.3125&1.25	EML	+2~+5dBm	APD	< -28dBm	0-70	20km+	RoHS DDM

Parameter	Symbol	Unit	Min	Max
Storage Temperature Range	Ts	oC	-40	+85
Relative Humidity	RH	%	5	95
Power Supply Voltage	Vcc	V	0	+3.6

Parameter	Symbol	Unit	Min	Typ	Max
Operating Case Temperature Range	Tc	oC	0	-	70





Feature	Test Method	Performance
RoHS	BS EN 1122: 2001 US EPA METHOD 3050B US EPA METHOD 3052 US EPA METHOD 3060A	Pb <1000ppm Cr6+ <1000ppm Hg <1000ppm PBB <1000ppm PBDE <1000ppm Cd <100ppm
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	Class 2(>4.0kV)
Electromagnetic Interference (EMI)	CISPR22 ITE Class B FCC Class B CENELEC EN55022 VCCI Class 1	Compliant with standard
Immunity	IEC61000-4-3 Class 2	Typically show no measurable effect from a 3V/m field swept from 80 to 1000MHz applied to the transceiver without a chassis enclosure.