



EPON ONU Triplexer Transceiver

RTXM170-501

Features

Single Fiber Triplexer
1.25Gbps data upstream and downstream / 45~1000MHz CATV analog signal downstream
Burst mode transmission with 1310nm FP laser
Continuous mode digital receiver with 1490nm PIN-TIA
Analog CATV receiver with 1550nm InGaAs PIN detector
+3.3V / +12V power supply
LVPECL compatible data input
CML compatible data output
LVPECL transmitter burst-mode control
LVTTTL I2C DDM interface
LVTTTL TX_SD/RX_SD/Video_SD

Soft Enable / Disable TX and Video
Fully RoHS Compliant
All metal housing for superior EMI performance
Excellent ESD / TVS protection
0 °C to 70 °C operating ambient temperature
1×20 Pin and 2"×2" Package
3PIN RF output connector
Real time monitoring of:
Temperature
Supply voltage
Laser bias current
Transmitted optical power
Received optical power
Video Received optical power
RF Output level

Applications

GEAPON ONU Side

Voice / Data / Video FTTx

Standards

IEEE Std 802.3^{ah}™ -2004
1000 BASE-PX20-U

SFF-8472 Rev 9.5

RTXM170-501

Optical and Electrical Characteristics ($T_0 = 0^\circ\text{C}$ to 70°C)

Parameter	Symbol	Unit	Min	Typ	Max	Note
Digital Transmitter						

Note 1:

Note 2:

Note 3:

Note 4:

Note 5:

Note 6:

Note 7:

Note 8:

Note 9:

Note 10:

Note 11:

Note 12: , (%)
(%) .

Note 13: (%)
(%) .

Note 14: (%)
(%) .

Note 15:

Within 15% of optical
steady state



Figure 4

Regulatory Compliance

Feature	Test Method	Performance

Ordering Information

Specifications		
Part No.		Application

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Note : ±