



## **Optical Receiver ERI-ORX-10RW-XGS**

### Smart 10 Gigabit PON & CATV WDM Receiver



#### 1. Product Description

The WDM optical receiver is - for example - to create a smart hotel solution: a convenient, safe and easy-to-maintain network construction solution that carries hotel voice, broadband Internet access, CATV and other information on a single network.

ERI-ORX-10RW-XGS optical receiver adopts high isolation and WDM technology to separate CATV and 10 Gigabit ONU signals, which can meet FTTH requirement of CATV + XG (S) -PON optical network, receiving 1550nm CATV signal and PON output signals (1310 / 1490nm & 1270 / 1577nm).

ERI-ORX-10RW-XGS optical receiver uses high-bandwidth and high-sensitivity photocells, low-noise matching circuits, GaAs amplification, low optical power receiving and RF-AGC technology. Receiving power range from -18 to + 2dBm, Light control AGC: -12~-2dBm, RF rated output 82dBuV, and there is also an optical power receiving monitoring LED indicator ( $\geq -15$ dBm) on the panel. Industry-leading 5V power adapter, ERI-ORX-10RW-XGS is an ideal WDM optical receiver for FTTH single fiber to home network.



## 2. Product Features

- PIN optical receiving power, -1dBm receiving sensitivity, AGC receiving range: -2 ~ -12dBm, output stable level: 82dBuv.
- Wide bandwidth type: 47 ~ 1000MHz working bandwidth.
- One fiber can receive long-range CATV RF signals and XG(S)-PON output signals at the same time.
- Industry-leading 5V power adapter.
- Can be compatible with any FTTx XGS-PON triple play optical network.
- Plastic enclosure with white top cover and black base, exquisite texture appearance, to demonstrate brand strength.

## 3. Technical Parameters

Items	Unit	Parameter	
Input Wavelength	(nm)	1310/1490 & 1270/1577nm,1550	
Output Wavelength	(nm)	1310/1490 & 1270/1577nm	
Operation Wavelength	(nm)	1540~1560	
Channel Separation	(dB)	≥40 (1310/1490 & 1270/1577nm and 1550nm )	
Responsivity	(A/W)	≥0.9	
Receiveing Power Range	(dBm)	+2~-18	
Reflection Loss	(dB)	≥55	
Fiber Link		SC/APC	
PON Link		SC/UPC (Optional SC/APC)	
Bandwidth/Flatness	MHz/dB	47-1000/≤±1	
Output Level	dBuv	1 RF	AGC: 82±1/(-2~-12dBm)
		2RF(Optional)	AGC: 78±1/(-2~-12dBm)
Adj. Range of Output Level	dB	0~15(Customized)	
Reflection Loss	dB	≥14(75Ω Characteristic Impedance)	
RF Output Interface		1 Way Output Male (or Two-Way Output or Female)	
CNR/MER	dB	≥44/34(PAL-D 60CH, OMI3.8%, -9dBm)	
CTB/CSO/HUM	dB	≥65/≥60/≥60(-1dBm Receive)	
Power Supply/Consumption	V/W	AC100~240V→DC5/3	
Working/Storage Temperature	°C	-35~50/-40~75 (Humidity 5~90%)	
Dimension	mm	95×92×23	