

GLB3500A-2R Sat LHCP/RHCP FTTH Optical LNB

GLB3500A-2R satellite LHCP/RHCP FTTH Optical LNB is a fiber optic receiver converting optical signal into RF for more than two satellite receivers. Working with Greatway GLB3500A-2T satellite TV fiber optic transmitter, GLB3500A-2R outputs high quality Terrestrial TV+ LHCP and Terrestrial TV + RHCP RF signal to one family with more than two satellite receivers. This FTTH Twin LNB can has two RF outputs, each RF port can switch LHCP or RHCP output signal by the 13V or 18V DC power from satellite receiver.

GLB3500A-2R has 1310nm/1490nm WDM option for co-working with GPON/EPON ONU in any FTTH case, which enables inserting satellite TV over GPON/EPON network.



Features:

- Compact die-cast aluminum housing
- High Linearity Photodiode
- SC/APC fiber input
- Optical AGC range: -6dBm ~ +1dBm
- Sat RF Bandwidth: 950MHz~2150MHz
- Terrestrial TV RF Bandwidth: 174MHz~806MHz
- RF output: Terrestrial TV + LHCP@18V DC from satellite receiver or sat multi-switch
- RF output: Terrestrial TV + RHCP@13V DC from satellite receiver or sat multi-switch
- Optional WDM port to GPON ONU

Specifications

Item	Parameter
Input Optical Wavelength	1000~1600 nm
Working Optical Power	-14dBm ~ +2dBm
AGC Range	-6dBm ~ +1dBm Optical Input
Optical Connector	SC/APC
Optical Return Loss	45 dB
RF Bandwidth	Sat: 950MHz~2150MHz Terrestrial TV: 174MHz~806MHz
RF Flatness	Sat: $\pm 3.0\text{dB}@950\sim 2150\text{MHz}$, $\leq 1.5\text{dB}$ @any 36MHz Terrestrial TV: $\pm 1.0\text{dB}$
RF Return Loss	>10 dB
RF Connector	American F Female
RF Output Impedance	75 Ω
RF Output Level	>74dB μV @ (-6dBm ~ +1dBm)
IMD 2nd order	$\geq 32\text{dB}$ (two input tones at -10 dBm)
IMD 3RD order	$\geq 53\text{dB}$ (two input tones at -10 dBm)
Power Supply	Powered by sat receiver or sat multi-switch
Power Consumption	4W
LED Indicator	RHCP/LHCP LED Green when RF power is > -50dBm
Working Temperature	-10 ~ +50°C
Storage Temperature	-40 ~ +85°C
Humidity	$\leq 95\%$
Dimension (L*W*H)	165mm×85mm×38mm
Weight	0.5 Kg

Ordering Information

GLB3500A-2XR Satellite TV FTTH Twin LNB for 2+ satellite receivers in one home
X(GPON Option): None_ No WDM port to ONU, W_ one WDM fiber port to ONU