

Sat LHCP/RHCP LNB Fiber Optical Transmitter

GLB3500A-2T fiber optical transmitter converts satellite LHCP/RHCP twin LNB RF (or vertical and horizontal RF) and terrestrial TV RF into one single mode fiber output while reverse powering the twin LNB with 13V and 18V DC. GLB3500A-2T has optical output options supporting 1x32 or 1x128 or 1x256 fiber to the home optical receiver (FTTH LNB) directly.



Features:

- Compact Aluminum die-cast housing
- 3 RF inputs: RHCP/LHCP and Terrestrial TV
- LHCP/RHCP bandwidth: 950MHz~2150MHz
- Terrestrial Digital TV bandwidth: 174 -806 MHz
- Sat RF port reverse powering LNB with 13V and 18V DC
- RF gain control on the RF level to laser
- One optical SC/APC output
- Optical Transmitter supports 1x32 or 1x128 or 1x256 PON directly
- WDM Option for GPON/EPON OLT

Specifications

RF and Optical Characteristics

Item	Parameter
Input RF port	Two RF ports from one Twin LNB One Terrestrial TV RF Port
Input RF frequency at each Sat port	950~2150MHz
Input RF frequency of Terrestrial TV	174~806MHz
Input RF Level	-55dBm ~ -25dBm(per sat transponder) -50dBm~-35dBm (10 Terr TV channels)
Aggregate Input Power per port	-10dBm (Sat) -20dBm (Terr TV)
Input Connectors	75Ω F Type (Female)
Input RF port return loss	>10dB (typical)
DC Power to Twin LNB	450mA@13V; 450mA@18V
Laser Wavelength	1540nm~1575nm
Laser Output Power	>+6 dBm >14dBm/17dBm/20dBm (Options)
Optical Connector	SC/APC, Single mode
Power Supply	19V 2A DC adapter, UL or CE certified
Power Consumption	< 15W
Dimension	185×146×38(mm)
Weight	2.5Kg
Operating Temperature	-10~+50°C
Storage Temperature	-40~+85°C
Relative Humidity	5~95 % (non-condensing)

Ordering Information

GLB3500A-2TY LHCP/RHCP Satellite TV fiber optic transmitter

Y (Optical Power): None_supporting up to 32pcs optical receivers

17_supporting 128pcs optical receivers

20_supporting 256pcs optical receivers

If 1pcs **GLB3500A-2T** supporting thousands of optical receivers, **GWA3530** optical amplifier should be connected after the optical transmitter.

Recommending Optical Receiver working with GLB3500A-2T:

GLB2000A Satellite TV FTTH universal LNB (for one satellite receiver in one home)

GLB3500M-4RH4 Satellite TV FTTH receiver (for 4 satellite receivers in one home)