

Satellite Wideband Twin LNB Fiber Optic Transmitter

GLB3500E-2T fiber optic transmitter converts satellite wideband Horizontal, wideband Vertical RF from one twin LNB and terrestrial TV RF into one single mode fiber output while reverse powering the twin LNB with 14V DC. GLB3500E-2T has few optical output versions supporting 1x32 or 1x128 or 1x256 fiber to the home optical receiver (FTTH LNB) directly.



Features:

- Compact Aluminum die-cast housing
- 3 RF inputs: wideband Horizontal/Vertical and Terrestrial TV
- Wideband Vertical bandwidth: 300~2350MHz (same contents as Quattro: VL and VH)
- Wideband Horizontal bandwidth: 300~2350MHz (same contents as Quattro: HL and HH)
- Terrestrial TV bandwidth: 88~250MHz (UHF 470~806MHz TV channels converted into 170~250MHz VHF by GTC250 Terrestrial TV frequency converter)
- Sat RF input port reverse powering LNB with 14V DC
- RF gain control on the RF level to laser
- One optical SC/APC output
- Optical Transmitter supports 1x32 or 1x128 or 1x256 optical LNBs directly
- WDM Option for GPON/EPON OLT

Specifications

RF and Optical Characteristics

Item	Parameter
Input RF port	Wideband Vertical Wideband Horizontal One Terrestrial TV RF Port
Input RF frequency at each Sat port	300~2350MHz
Input RF frequency of Terrestrial TV	88~250MHz
Input RF Level	-55dBm ~ -25dBm(per sat transponder) -50dBm~-35dBm (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	14V
Laser Wavelength	1540nm~1575nm
Laser Output Power	>+6 dBm >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

GLB3500E-2TY Wideband Horizontal/Vertical 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 **GLB3500E-2T** supporting thousands of optical receivers, **GWA3530** optical amplifier should be connected after the optical transmitter.

Recommending Optical Receiver working with GLB3500E-2T:

GLB3500E-2R Satellite TV FTTH receiver (for up to 4 satellite receivers in one home)