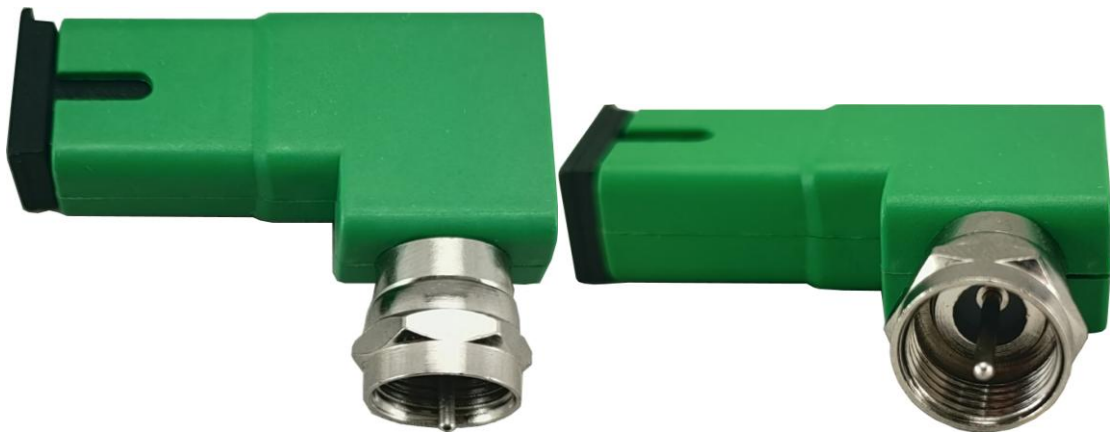


GFD2000 Fiber Optic LNB Dongle

GFD2000 fiber optic LNB Dongle is a compact satellite TV fiber optic receiver installed at the RF port of satellite STB. Working with Greatway GLB3500MT optical transmitter, GFD2000 LNB dongle converts optical signal into Satellite RF. Powered by the 13V/18V DC from satellite receiver, GFD2000 outputs high quality satellite transponders by gain flattened design. GFD2000 has excellent satellite MER at extremely low optical input power (such as -18dBm). 1pcs GLB3500MT-D20 optical transmitter can drive up to 512pcs GFD2000 directly. The built-in 1550nm filter excludes 1490nm or 1577nm OLT signal from GFD2000 in GPON/XGPON FTTH system.



Features:

- Compact plastic flame retarding housing
- Installed on the RF port of Satellite STB
- Converting GLB3500MT optical transmitter signal into sat RF
- High Linearity Photodiode
- Low noise GaAs amplifier
- Wideband Gain Flattened design
- Output Maximum 32UB at 950~2150MHz
- Higher than 45dBuV@-15dBm
- Higher than 10dB MER@-18dBm
- Powered by satellite STB
- Built-in filter excluding 1490nm and 1577nm from PON
- Surge Protection at RF port
- Plug and Play

Specifications

Item	Parameter
Input Optical Wavelength	1545nm~1565nm
Working Optical Power	-18dBm ~ 0dBm@1550nm
Optical Connector	SC/APC
Optical Return Loss	45 dB
RF Bandwidth	174 ~ 2350 MHz
RF Flatness	±4.0dB
Satellite User Bands	32 (950~2150MHz)
Each User Band bandwidth	36MHz (typical)
RF Connector	American F Male
RF Output Impedance	75Ω
RF Output Level	45dBμV@-15dBm
Typical MER	>10dB@-18dBm
Environment	
Power Supply	13 V or 18V from satellite receiver
Power Consumption	<0.5W
Working Temperature	-20 ~ +60°C
Housing Dimension (L*W*H)	36mm×28mm×9mm
Weight	9g

Ordering Information

GFD2000 Satellite TV fiber optic LNB Dongle

Test data of GFD2000 with Greatway GLB3500MT optical transmitter

Optical Input Power	RF Output Level	MER
0dBm	76dBμV	13.4dB
-2dBm	72dBμV	13.4dB
-4dBm	68dBμV	13.3dB
-6dBm	64dBμV	13.3dB
-8dBm	60dBμV	13.3dB
-10dBm	56dBμV	13.2dB
-12dBm	52dBμV	13.1dB
-14dBm	48dBμV	13.0dB
-16dBm	44dBμV	12.6dB
-18dBm	40dBμV	11.9dB
-20dBm	36dBμV	10.4dB
-22dBm	32dBμV	6.5dB

