

GLB3500M-4D RF Fiber Link

GLB3500M-4D is a modular DWDM broadband RF fiber link, transmitting four 950~2150MHz Satellite RF and one 174~806MHz Terrestrial TV RF over one SM fiber to multi FTTH subscribers. The four satellite RFs can be either VL/VH/HL/HH from one Quattro LNB or four static 32UB from four satellite dCSS LNBs. GLB3500M-4D fiber link includes GLB3500M-4TD DWDM optical transmitter and GLB3500M-4RD4 FTTH optical receiver. With DWDM lasers/photodiode and low noise RF gain control circuit, one GLB3500M-4TD can deliver high quality RF to maximum 32 GLB3500M-4RD4 optic receivers directly or thousands of GLB3500M-4RD4 optic receivers via high power optical amplifier.



Features:

- Compact aluminum housing with excellent heatsink and RF isolation
- One Quattro LNB (or four dCSS LNBs) and Terr TV over one SM fiber transmission
- Four satellite RF bandwidth: 950MHz to 2150MHz
- Reverse 13V/18V DC to Quattro LNB or dCSS LNB
- Terrestrial TV bandwidth: 174~806MHz
- 1550nm C-band DWDM wavelengths in the range of EDFA or EYDFA
- AGC on optical transmitter and receiver
- High Linearity Photodiode
- Excellent RF Isolation
- Low noise RF Gain Control circuit
- 19" 1RU House Optional

Specifications:

GLB3500M-4TD Optical Transmitter

RF Input	
RF Input Port Number	5 (Quattro LNB or four dCSS LNBs, one Terrestrial TV)
RF Bandwidth at each port	Satellite: 950~2150MHz Terrestrial TV: 174~806MHz
Minimum RF Input Power	-50dBm
Maximum RF Input Power	-30dBm
RF Connector	F-Type, American Female
RF Return Loss	10dB
RF Impedance	75 Ohm

Power to LNB	Reverse 13V or 18V DC to each LNB RF port
RF AGC	Preset at 32 RF carriers in the bandwidth
AGC Flatness	±3.0 dB
Optics	
Optical Output Port	One
Fiber	9µm / 125µm Single Mode Fiber
Fiber Connector	SC/APC
Output optical wavelength	1541.35nm, 1544.53nm, 1547.72nm and 1550nm
Laser Output Power	>+9dBm
LED Status	6 Green Color LED on the panel, representing DC Power, RF1, RF2, RF3, RF4, RF5. LED “ON” when there is the corresponding signal.
Physical	
Power Supply	19V 2A DC Power Adaptor or 220V AC (19” 1RU version)
Power Consumption	25W
Dimensions (W x H x D) mm	185×146×38 or 484×44×260
Operating Temperature (°C)	-20 - +60
Storage Temperature (°C)	-40 - +85
Humidity	10%~90% non-condensing
Weight	1.5Kg (not including power adaptor) or 5Kg (19”1RU)



GLB3500M-4RDx Optical Receiver (Fiber optic Quad LNB, for FTTH)

Optical Input	
Optical Input Port	One
Fiber	9µm / 125µm Single Mode Fiber
Fiber Connector	SC/APC
Input optical wavelength	1550nm DWDM Wavelength
Optical Input Power	-10dBm~+6dBm
Optical AGC range	-5dBm~+3dBm
RF Output	
RF Output Port Number	Four
Each RF output bandwidth: Sat: 950~2150MHz Terr TV: 174~806MHz	GLB3500M-4RD: 1 Sat FTTH, VL/VH/HL/HH by DiSEqC GLB3500M-4RD4: 4 Sats FTTH, 32UB each sat, Satellite selected by DiSEqC
RF Output Level	>70dBµV@-6dBm optical input (SAT) >65dBµV@-6dBm optical input (Terr TV)
RF Flatness	±3.0 dB
RF Return Loss	10dB
RF Connector	F-Type, American Female
RF Impedance	75 Ohm
IMD 2nd order	≥32dB (two input tones at -15 dBm)
IMD 3RD order	≥52dB (two input tones at -15 dBm)
LED Status	5 Green Color LED on the panel, representing DC Power, RF1,



	RF2, RF3, RF4, LED “ON” when there is the corresponding signal.
Physical	
Power Supply	12V 1A CE or UL Power Adapter
Power Consumption	6W
Dimensions (W x H x D) mm	168×115×32
Operating Temperature (℃)	-20 - +60
Storage Temperature (℃)	-40 - +85
Humidity	10%~90% non-condensing
Weight	0.6Kg (without power adaptor)

Ordering Information

GLB3500M-4TD Four 950~2150MHz and Terr TV fiber optic DWDM transmitter

GLB3500M-4RD One Sat Fiber to the home fiber optic Quad receiver

GLB3500M-4RD-K One Sat FTTH fiber optic Quad receiver with WDM to GPON

GLB3500M-4RD4-K 4 Sats FTTH 4 RF outputs receiver with WDM to GPON