

## GLB3500M-4 RF Fiber Link

GLB3500M-4 is a modular CWDM broadband RF fiber link, transmitting four 950~2150MHz Satellite RF and one 174~806MHz Terrestrial TV RF over one SM fiber to multi subscribers. GLB3500M-4 fiber link includes GLB3500M-4T optical transmitter and GLB3500M-4R optical receiver. With CWDM lasers/photodiode and low noise RF gain control circuit, one GLB3500M-4T can deliver high quality RF to maximum 32 GLB3500M-4R optic receivers directly.



### Features:

- Compact housing
- Quattro LNB (or two Twin LNBs) and Terr TV over one SM fiber transmission
- VL/VH/HL/HH bandwidth: 950MHz to 2150MHz
- Terrestrial TV bandwidth: 174~806MHz
- 1530nm/1550nm/1570nm/1590nm CWDM system
- CWDM uncooled DFB Laser
- AGC on optical transmitter and receiver
- High Linearity Photodiode
- Excellent RF Isolation
- Low noise RF Gain Control circuit

### Specifications:

#### GLB3500M-4T Optical Transmitter

<b>RF Input</b>	
RF Input Port Number	5 (Quattro LNB or two Twin 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 30 RF carriers in the bandwidth
AGC Flatness	±3.0 dB
<b>Optics</b>	
Optical Output Port	One
Fiber	9µm / 125µm Single Mode Fiber
Fiber Connector	SC/APC

Output optical wavelength	1530nm/1550nm/1570nm/1590nm
Laser	Uncooled DFB laser with one stage isolator
Laser Output Power	>5dBm (each CWDM wavelength)
<b>LED Status</b>	6 Green Color LED on the panel, representing DC Power, RF1, RF2, RF3, RF4, RF5. LED "ON" when there is the corresponding signal.
<b>Physical</b>	
Power Supply	19V 2A DC Power Adaptor
Power Consumption	15W
Dimensions (W x H x D) mm	185×146×38
Operating Temperature ( °C)	-20 - +60
Storage Temperature ( °C)	-40 - +85
Humidity	10%~90% non-condensing
Weight	1.5Kg (without power adaptor)



### GLB3500M-4R Optical Receiver (Fiber Quattro LNB, for fiber to the building)

<b>Optical Input</b>	
Optical Input Port	One
Fiber	9μm / 125μm Single Mode Fiber
Fiber Connector	SC/APC
Input optical wavelength	1530nm/1550nm/1570nm/1590nm
Average CWDM Optical Loss	<4.0dB@each CWDM wavelength (not including splitter loss and fiber loss)
Optical Input Power	-14dBm~ 0dBm
Optical AGC range	-10dBm~ -3dBm
RF Output	
RF Output Port Number	Five
RF output bandwidth	950~2150MHz (VL/VH/HL/HH) 174~806MHz (Terrestrial TV)
RF Output Level	>80dBμV @ -8dBm optical input (SAT) >75dBμV @ -8dBm 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)
<b>LED Status</b>	5 Green Color LED on the panel, representing DC



	Power, RF1, RF2, RF3, RF4, LED “ON” when there is the corresponding signal.
<b>Physical</b>	
Power Supply	12V 1A CE or UL Power Adapter
Power Consumption	5W
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-4T** Quattro LNB and Terr TV fiber optic transmitter

**GLB3500M-4R** Fiber to the building fiber optic Quattro receiver