GLB3500M-3 Satellite RF Fiber Link

GLB3500M-3 is a modular CWDM broadband RF fiber link, transmitting two 290~2350MHz Satellite RF and one 45~806MHz Terrestrial TV RF over one SM fiber to multi subscribers. GLB3500M-3 fiber link includes GLB3500M-3T optical transmitter and GLB3500M-3R optical receiver. With CWDM lasers/photodiode and low noise RF gain control circuit, one GLB3500M-3T can deliver high quality RF to maximum 32pcs GLB3500M-3R optic receivers directly.

Features:

- Compact aluminum housing
- 3 independent broadband RF over one SM fiber transmission
- Each RF bandwidth: wideband LNB 290~2350MHz or 45~806MHz
- 1530nm/1550nm/1570nm 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-3T Optical Transmitter

RF Input	
RF Input Port Number	Two Sat inputs and one DVB-C/T TV Input
Sat RF Bandwidth	290~2350MHz (wideband vertical/horizontal) or 950~2150MHz (LHCP/RHCP)
DVB-C or DVB-T Bandwidth	45~806MHz
Minimum RF Input Power	-50dBm
Maximum RF Input Power	-20dBm
RF Connector	F-Type, American Female
RF Return Loss	10dB
RF Impedance	75 Ohm
Reverse DC Power to LNB	13V/18V on Twin LNB or 14V to Wideband LNB
RF AGC	Preset at 20/40 RF carriers in the bandwidth
RF Flatness	±3.0 dB
Optics	

Optical Output Port	One
Fiber	9μm / 125μm Single Mode Fiber
Fiber Connector	SC/APC
Output optical wavelength	1530nm/1550nm/1570nm
Laser	Uncooled DFB laser with one stage isolator
Laser Output Power	>+7dBm (total optical power)
LED Status	6 Green Color LED on the panel, representing 3 RF Inputs and 3 laser outputs. RF LED "Green" when there is RF power>-60dBm, Laser LED "Green" when laser power is higher than -3dBm.
Physical	
Power Supply	19V 2A DC Power Adaptor
Power Consumption	<8W
Dimensions (W x H x D) mm	185×146×38(mm)
Operating Temperature (℃)	-20 - +60
Storage Temperature (℃)	-40 - +85
Humidity	10%~90% non-condensing
Weight	1.13Kg (without power adapter)

GLB3500M-3R Optical Receiver

Optical Input	
Optical Input Port	One
Fiber	9μm / 125μm Single Mode Fiber
Fiber Connector	SC/APC
Input optical wavelength	1530nm/1550nm/1570nm
Average CWDM Optical Loss	<3.0dB@each CWDM wavelength (not including splitter loss and fiber loss)
Optical Input Power	-14dBm~ 0dBm
Optical AGC Range	-10dBm~ -3dBm
RF Output	
RF Input Port Number	Three: two DVB-S/S2 and one DVB-C/T
DVB-S/S2 RF output	290~2350MHz
DVB-C/T RF Output	45~806MHz
RF Output	>70dBuV@-10dBm optical input
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	3 LED, representing DVB-C/T and two DVB-S/S2 signals respectively. LED "Green" when there is the corresponding optical input signal.
Physical	
Power Supply	Powered at two sat RF ports by Sat Multi-switch
Power Consumption	<4W
Dimensions (W x H x D) mm	165mm×85mm×38mm
Operating Temperature (℃)	-20 - +60
Storage Temperature (℃)	-40 - +85
Humidity	10%~90% non-condensing
Weight	300g (without power adapter)