

GLB3500M-6 6ch Wideband RF Fiber Link

GLB3500M-6 is a modular 6ch CWDM Satellite RF fiber link, transmitting 6ch wideband 174MHz~2350MHz RF over one SM fiber to one or multi optical receivers. Each CWDM optical wavelength carries one 174~2350MHz RF, supporting Terrestrial TV 174~806MHz and 950~2150MHz Sat RF. ensuring excellent RF performance and mutual isolation among RF inputs. GLB3500M-6 fiber link includes GLB3500M-6T optical transmitter and GLB3500M-6R optical receiver. With CWDM lasers/photodiode and low noise RF gain control circuit, one GLB3500M-6T can deliver high quality RF to maximum 32 GLB3500M-6R optical receivers in 5Km fiber distance.



Features:

- Metal housing
- 6ch 174~2350MHz RF over one SM fiber
- 6ch CWDM uncooled DFB Lasers
- Each RF input can pre-set 13V, 18V and 22KHz reverse DC to LNB at Factory
- AGC at optical transmitter and receiver
- High Linearity Photodiode
- Higher than 30dB RF Isolation
- Low noise RF Gain Control circuit

Specifications:

GLB3500M-6T Optical Transmitter

RF Input	
RF Input Port Number	6
RF Bandwidth at each port	Satellite: 174~2350MHz
Minimum RF Input Power	-50dBm
Maximum RF Input Power	-30dBm
RF Connector	F-Type, American Female
RF Return Loss	>10dB
RF Impedance	75 Ohm
DC Power to LNB Option	13V, 18V, 13V 22KHz, 18V 22KHz and No DC
RF AGC	Preset at 25 RF carriers in each CWDM channel
RF Flatness	±4.0 dB (174~2350MHz)
Optics	
Optical Output Port	One
Fiber	9µm/125µm Single Mode Fiber
Fiber Connector	SC/APC
Output optical wavelength	1470nm/1490nm/1510nm/1530nm/1550nm/1570nm
Laser	Uncooled CWDM DFB laser with one stage isolator

Average CWDM Optical Loss	<2.8dB@ CWDM wavelength
Laser Output Power	>10dBm (All CWDM wavelengths)
LED Status	12 Green Color LED on the panel, representing each laser power and 6 RF inputs. LED “ON” when there is the corresponding signal.
Physical	
Power Supply	19V 3A DC Power Adapter
Power Consumption	<12W (not including power to LNB)
Dimensions (W x H x D) mm	190×155×40
Operating Temperature (°C)	-10 - +45
Storage Temperature (°C)	-40 - +85
Humidity	10%~90% non-condensing
Weight	2Kg

GLB3500M-6R Optical Receiver



Optical Input	
Optical Input Port	One
Fiber	9μm / 125μm Single Mode Fiber
Fiber Connector	SC/APC
Input optical wavelength	1470nm/1490nm/1510nm/1530nm/1550nm/1570nm
Average CWDM Optical Loss	<2.8dB@each CWDM wavelength
Optical Input Power	-12dBm~+3dBm (All CWDM wavelengths)
RF Output Ports	6
RF Output Bandwidth	174~2350MHz
SAT RF Output Level (This number varies depending on sat transponder number at Tx)	>-76dBuV@-6dBm optical input >-70dBuV@-10dBm optical input >-65dBuV@-12dBm optical input
RF Flatness	±4.0 dB (174~2350MHz)
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	6 Green Color LED on the panel, representing 6 RF channels and DC Power. LED “ON” when there is the signal on the corresponding RF channel.
Physical	
Power Supply	12V 1A power adapter, CE Certified
Power Consumption	<9W
Dimensions (W x H x D) mm	141×155×25
Operating Temperature (°C)	-10 - +50
Storage Temperature (°C)	-40 - +85
Humidity	10%~90% non-condensing
Weight	<1Kg

Ordering Information

GLB3500M-6T Wideband Satellite RF CWDM fiber optic transmitter

GLB3500M-6R Wideband Satellite RF CWDM fiber optic receiver