

GLB3500M-8 RF Fiber Link

GLB3500M-8 is a CWDM Satellite RF fiber link, transmitting 8 polarities 950~2150MHz Satellite RF from 2 Satellite Dishes and 1 terrestrial TV RF over one SM fiber to multi subscribers. Each CWDM optical wavelength carries one 950~2150MHz RF signal (or 174~2150MHz, including Terrestrial TV), ensuring excellent RF performance and mutual isolation among satellite polarities. GLB3500M-8 fiber link includes GLB3500M-8T optical transmitter and GLB3500M-8R optical receiver. With CWDM lasers/photodiode and low noise RF gain control circuit, one GLB3500M-8T can deliver high quality RF to maximum 32pcs GLB3500M-8R optical receivers within 5Km fiber distance.



Features:

- Aluminum Metal housing with heat sink
- No fan design
- 8 sat polarity broadband RF 950~2150MHz
- One Terrestrial TV RF 174~806MHz
- 8 CWDM uncooled DFB Lasers from 1470nm to 1610nm
- AGC at optical transmitter and receiver
- Supporting maximum 5Km fiber distance at each 1×32 PLC output
- High Linearity Photodiode
- Excellent RF Isolation
- Low noise RF Gain Control circuit

Specifications:

GLB3500M-8T Optical Transmitter

RF Input	
RF Input Port Number	9 (Two group Sat Quattro LNB inputs and Terr 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 (Satellite) >16dB (Terrestrial TV)
RF Impedance	75 Ohm
DC Power to LNB	13V 0Hz, 18V 0Hz, 13V 22KHz, 18V 22KHz
RF AGC	Preset at 20 RF carriers in each satellite polarity
RF Flatness	SAT: ±3.0 dB Terrestrial TV: ±1.0 dB
Optics	
Optical Output Port	One
Fiber	9µm/125µm Single Mode Fiber



Fiber Connector	SC/APC
Output optical wavelength	1470nm~1610nm
Laser	Uncooled CWDM DFB laser with one stage isolator
Average CWDM Optical Loss	<3.0dB@8 CWDM wavelengths
Laser Output Power	>10dBm (All CWDM wavelengths)
LED Status	Green Color LED on the panel, representing laser Power and RF. LED "ON" when there is either Laser or RF signal.
Physical	
Power Supply	19V 3A DC Power Adapter, CE Certified
Power Consumption	<20W (not including the power to four Quattro LNBs)
Dimensions (W x H x D) mm	430×230×44 (19" 1RU)
Operating Temperature (°C)	-10 - +45
Storage Temperature (°C)	-40 - +85
Humidity	10%~90% non-condensing
Weight	10Kg

GLB3500M-8R Optical Receiver

Optical Input	
Optical Input Port	One
Fiber	9μm / 125μm Single Mode Fiber
Fiber Connector	SC/APC
Input optical wavelength	1200nm~1650nm
Average CWDM Optical Loss	<3.0dB@8 CWDM wavelengths
Optical Input Power	-14dBm~+2dBm (All CWDM wavelengths)
RF Output Ports	8 (two group Sat Quattro Outputs) One Terrestrial TV
RF Output Bandwidth	Sat: 950~2150MHz Terr: 174~806MHz
SAT RF Output	>-76dBuV@-6dBm each CWDM channel input >-70dBuV@-10dBm each CWDM channel input >-62dBuV@-18dBm each CWDM channel input
RF Flatness	SAT: ±3.0 dB Terrestrial TV: ±1.0 dB
RF Return Loss	SAT: 10dB Terrestrial TV: 16dB
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	9 Green Color LED on the panel, representing 8 sat RF Ports and one Terr TV. LED "ON" when there is the signal on the corresponding RF port.
Physical	
Power Supply	12V 2A CE Certified Power Adapter with F connector, wall plug
Power Consumption	<10W
Dimensions (W x H x D) mm	204 x 210 x 44
Operating Temperature (°C)	-10 - +50
Storage Temperature (°C)	-40 - +85
Humidity	10%~90% non-condensing
Weight	<1.5Kg

Ordering Information

GLB3500M-8T 8 Satellite Polarities RF fiber optic transmitter

GLB3500M-8R 8 Satellite Polarities RF fiber optic receiver