

GLB3500M-4

RF FIBER LINK



O GLB3500M-4 (Tx/Rx) é um link de fibra óptica para sinais de RF em Banda-L, de tecnologia CWDM modular, que transmite 4 (quatro) sinais de RF de satélite de 950 ~ 2150 MHz e 1 (um) sinal de RF de TV terrestre de 174 ~ 806 MHz em uma ÚNICA fibra óptica SM para vários outros distantes pontos de acordo com o projeto do cliente. O link de fibra GLB3500M-4 inclui o transmissor óptico GLB3500M-4T e o receptor óptico GLB3500M-4R. Com lasers em 4 diferentes comprimentos de ondas CWDM e circuito de controle de ganho de RF de baixo ruído, 1 (um) GLB3500M-4T pode fornecer RF de alta qualidade para no máximo 32 receptores ópticos GLB3500M-4R diretamente.



Características:

- Carcaça de alumínio compacta e resistente;
- Quattro LNB (ou dois Twin LNBs) e Terr TV sobre uma transmissão de fibra SM;
- Largura de banda Satelite: VL, VH, HL, HH: 950MHz a 2150MHz;
- Largura de banda da TV terrestre: 174~806MHz;
- Sistema CWDM de 1530nm/1550nm/1570nm/1590nm;
- Laser DFB não refrigerado CWDM;
- AGC no transmissor e receptor óptico;
- Fotodiodo de alta linearidade;
- Excelente isolamento de RF;
- Circuito de controle de ganho de RF de baixo ruído.

Specifications: GLB3500M-4T Optical Transmitter

RF Input	
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

GLB3500M-4

RF FIBER LINK



Optics	
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)
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
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

Optical Input	
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	-16dBm~ - 8dBm (Each CWDM wavelength)
Optical AGC range	-7dBm~ + 1dBm (Each CWDM input)

GLB3500M-4

RF FIBER LINK



RF Output	
RF Output Port Number	Five
RF output bandwidth	950~2150MHz (VL/VH/HL/HH) 174~806MHz (Terrestrial TV)
RF Output Level	>80dB μ V@-8dBm optical input (SAT) >75dB μ V@-8dBm optical input (Terr TV)
RF Flatness	\pm 3.0 dB
RF ReturnLoss	10dB
RF Connector	F-Type, American Female
RF Impedance	75 Ohm
IMD 2nd order	\geq 32dB (two input tones at- 15 dBm)
IMD 3RD order	\geq 52dB (two input tones at- 15 dBm)
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	12V 1A CE or UL Power Adapter
Power Consumption	5W
Dimensions (W x H x D) mm	168 \times 115 \times 32
OperatingTemperature (°C)	-20 - +60
Storage Temperature (°C)	-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 Quattro LNB and Terr TV fiber optic receiver