

GNSS RF over fiber link

GLB3300MG fiber link can delivery GNSS (GPS/GLONASS/Galileo/Beidou) satellite navigation RHCP RF signal from the outdoor antenna to any indoor office within 5Km fiber distance.

GLB3300MG includes GLB3300MG-T fiber optic transmitter and GLB3300MG-R fiber optic receiver. The optical transmitter converts GNSS antenna signal into fiber optics and sends 5.0V DC power to the antenna. The optical receiver converts the fiber optic signal to GNSS RF signal over the coaxial cable.



Features:

- Aluminum Die Cast Housing or 19" 1RU indoor housing
- Supporting GPS/GLONASS/Galileo/Beidou Satellite RF signal over fiber
- Offering 5.0V DC power for outdoor satellite antenna
- 1310nm high linearity laser and high linearity Photodiode
- GaAs Low Noise Amplifier

Specifications:

Parameter	Min	Typical	Max	Unit
Optical Transmitter wavelength	1300	1310	1320	nm
Optical Transmitter Output Power	+1	+3	+4	dBm
RF Return	10	12		dB
Power to GPS Antenna	5.0V DC, Max 50mA			
Fiber Link RF AGC	± 2dB			
RF Frequency: 950~2150MHz Supporting	GPS L1(1551~1612MHz) L2(1197~1278MHz) Beidou B1(1551.098MHz ± 2.046MHz) Beidou B2(1207.140MHz ± 2.046MHz) Beidou B3(1268.52MHz ± 10.23MHz) GLONASS G1/G2 GALILEO E1/E5B			
RF Flatness	≤2.0dB@GPS Frequency			
Optical Receiver RF Output	-110dBm±10dBm (@ -10dBm optical input)			
RF connector	SMA			
RF Impedance	50 Ohm			
Fiber Optical Connector	SC/APC, SM fiber			
Power Supply	12V 0.5A Power adapter			
Power Consumption	< 3W			
Tx or Rx Dimension	127mm×90mm×30mm			
Working Temperature	-20~+55 ℃			
Storage Temperature	-40~+85 ℃			
Humidity	5~95 % (non-condensing)			