Triple-Band Fiber Optic Repeater (Remote Unit 23dBm)

1800-3500 MHz

Fiber Link-308



LTE1800+LTE2100+5GNR (TDD-3.5GHz)

The Fiber Optic Repeater (FOR) is designed to solve problems of weak mobile signal in the place that is far away from the Base Transceiver Station (BTS) and has fiber optic cable network underground.

The system consists of two parts: Master Unit (MU) and Remote Unit (RU). The MU captures the BTS/Repeater signal via direct coupler closed to BTS/Repeater, then converts it into optic signal and transmits the amplified signal to the RU via fiber optic cable. The RU will reconvert the optic signal into RF signal and provide the signal to the areas where network coverage is inadequate. And the mobile signal is also amplified and retransmitted to the BTS via the opposite direction.

Key features

- Tx/Rx control and alarm messages can be transmitted via one fiber optic cable.
- One MU can support up to 8 RUs to maximize utilization of fiber optic cable (A star topology is supported between MU and RUs).
- Built-in 5G Dynamic TDD Sync Detection Module, automatic completion of 5G wireless network cell search and wireless signaling processing.
- UBS/RJ45 port provides a link to a notebook for local supervision or IP Based NMS (Network Management System) that can remotely supervise repeater's working status and download operational parameters to the repeater via Ethernet.

Advantages

- Multi_standards/Multi_operators
- **Built-in 5G Dynamic TDD Sync**

Detection Module Detection Module

- Remote control
- Smart function to set the proper

gain automatically



Specifications

Technical characteristics

Item		Specifications
System		LTE1800<E2100&5GNR TDD-3.5GHz
Working Frequency	Uplink	1710~1785MHz&1920~1980MHz&3300~3570MHz
	Downlink	1805~1880MHz&2110~2170MHz&3300~3570MHz
Working Bandwidth		75MHz&60MHz&270MHz
MGC(Step Attenuation)		0~20dB @ Step of 1 dB
Maximum Gain		35±3dB
VSWR		≤1.5
Group(System) Delay		≤1.5µs
Maximum RF Output Power		DL:23±2dBm per Band
AGC/ALC Function		Support
AGC/ALC Range		≥10dB
Fiber Type/Number		Single Mode
Optical Wavelength		1310nm/1550nm
Optical Receiver Sensitivity		≥ -15dBm
Optical Connector Type		1xFC/PC
RF Connector Type		1xN-Female
I/O Impedance		50Ω
Ingress Protection		IP30
Cooling Function		Heat Sink
Operating Temperature		-10°C~50°C
Relative Humidity		≤95%
Dimensions		318mm×265mm×68mm
Weight		≤7Kg
Power Supply		AC100V ~240V, 50/60Hz ≤80W
Local Control		Via USB Interface
Remote Mode		Through MU via Fiber Optical Cable
Mounting Type		Wall Mounting

Applications

To expand signal coverage or fill signal blind area where signal is weak or unavailable. **Outdoor:** Airports, tourism regions, golf courses, tunnels, factories, mining districts, villages, ... **Indoor:** Hotels, exhibition centers, basements, shopping malls, offices, parking lots, ...

