

Quad-Band Fiber Optic Repeater_(Remote Unit 23dbm)

900-2400 MHz

Fiber Link-408



LTE900+LTE1800+ LTE/UMTS2100+WiFi2.4GHz

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 2.4G Dynamic TDD Sync Detection Module, automatic completion of 2.4G 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**
- ☑ **Adopting WDM module to realize long-distance transmission**
- ☑ **Stable and Improved Signal Transmission Quality**
- ☑ **Smart Mode (Automatically adjust the gain)**
- ☑ **NMS (Network Management System)**

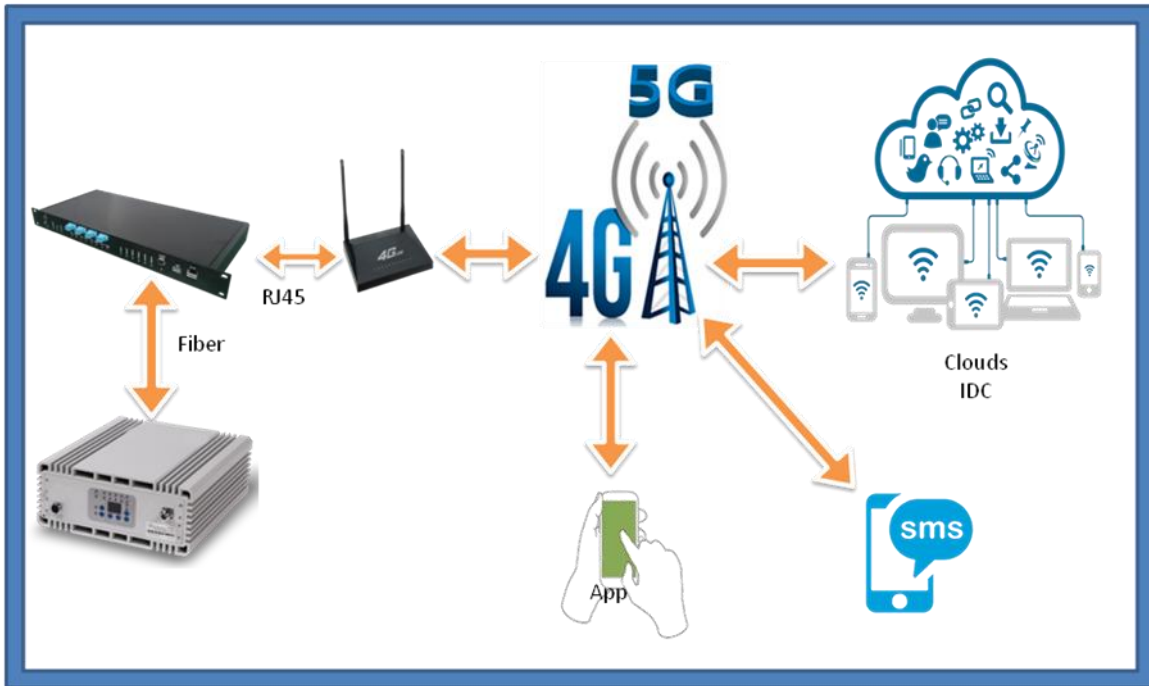


Specifications

Technical characteristics

Item	Specifications	
System	LTE900+LTE1800+LTE/UMTS2100+Wi-Fi2.4G(TrDD)	
Working Frequency	Uplink	885~915 / 1710~1775 / 1920~1980 / 2041~2483 MHz
	Downlink	930~960 / 1805~1870 / 2110~2170 / 2041~2483 MHz
Working Bandwidth	30 / 65 / 60 / 82 MHz	
Frequency Stability	≤0.01ppm	
AGC/ALC Range	10dB	
RMS RF Output Power(DL)	23dBm Per Band	
MGC Range	0~31dB@Step of 1 dB	
VSWR	≤ 1.5	
System Delay	≤1.5μs	
Noise Figure@Max. Gain	≤5dB	
Optical Output Power	2±3dBm@1310nm	
Fiber Type/Optical Connector Type	Single mode / 1xFC/PC	
Optical Wavelength	1310nm / 1550nm	
Smart Mode	Automatically adjust the gain in both links according to the specific environment	
RF Connector Type	1xN-Female	
I/O Impedance	50Ω	
Ingress Protection	Indoor (IP30)	
Operating Temperature	-10°C~50°C (Heat Sink Cooling)	
Relative Humidity	≤95%	
Dimensions	318x265x113mm	
Weight	≤9Kg	
Power Supply	AC100V ~240V, 50/60Hz; <40W	
Local Monitoring Interface	USB/RJ45	
Remote Monitoring	Cloud NMS via RJ45 Port Provide GUI interface for configuration the MU and RU, remote management each RU by MU, to set the parameters of RU, and monitoring the status and alarms	
MTBF	>50000hours	
Mounting Type	Wall Mounting	

NMS (Network Management System)



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, ...

