Fiber Optic Repeater_Quad-Band





1800 MHz + 2100 MHz + 2600 MHz + 3800MHz

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 signal via donor antenna, 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

- Aluminum-alloy casing with IP65 protection has high resistance to dust, water and corrosion.
- ightharpoonup Tx/Rx control and alarm messages can be transmitted via one fiber optic cable.
- > Stable and improved signal transmission quality.
- Adopting WDM module to realize long-distance transmission.
- Built-in 5G Dynamic TDD Sync Detection Module, automatic completion of 5G wireless network cell search and wireless signaling processing.
- One MU can support up to 4 RUs to maximize utilization of fiber optic cable, A star topology is supported between MU and RUs.
- ➤ USB/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

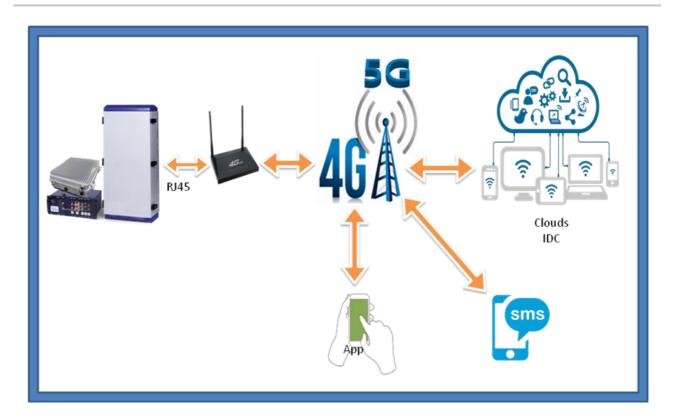
- ☑ Multi_standards/Multi_operators
- ☑ Remote Control
- Fiber Optic Cable Transmission
- ☑ Low consumption



Specifications

Technical characteristics						
Items		Specifications RU				
						System
Working Frequency	Uplink	1710~1785MHz	1920~1980MHz	2500~2600MHz	3700~3900MHz	
	Downlink	1805~1880MHz	2110~2170MHz	2500~2600MHz	3700~3900MHz	
Working Bandwidth		75MHz	60MHz	100MHz	200MHz	
Composite DL RF Output Power		43±2dBm@1800&2100&2600MHz, 40±2dBm@5GNR				
Gain of RU		45±3dB per Band				
Manual Adjustable Attenuation		0~25dB/Step IdB				
AGC Range		≥ I0dBm				
Spurious Emission		9kHz~IGHz:≤ -36dBm				
		IGHz~I2.75GHz:≤ -30dBm				
Optical Output Power		0±3dBm@1310nm				
Fiber Type/Number		Single mode				
Optic Receiver Sensitivity		≥ -I2dBm				
Optical Connector		I*LC/UPC				
RF Connector		I*N-Female				
I/O Impedance		50Ω				
Operation Temperature Range		-I0°C ~ +50°C				
Relative Humidity		≤95%				
Application		Indoor & Outdoor(IP65)				
Dimensions		500*440*235mm				
Weight		≤ 45Kg				
Power Supply		ACI10~220V,50/60Hz				
Power Consumption			≤ 330W			
Mounting		Wall Mounting				
LED Indicators		Power Supply, Running, Alarm				
Local Control		Via USB Interface or WiFi Hotspot				
Remote Cont	rro1		Through MU via Fiber Optical Cable			

Network Management System (NMS)



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, ...

