Fiber Optic Repeater_Dual Bands



LTE1800+LTE2100

1800-2100 MHz

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 direct coupler closed to BTS, 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.
- Tx/Rx control and alarm messages can be transmitted via one fiber optic cable.
- Stable and improved signal transmission quality.
- ➤ 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 24 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



☑ Remote control

☑ Digital features:

Balancing operator level (Option)

☑ Low consumption



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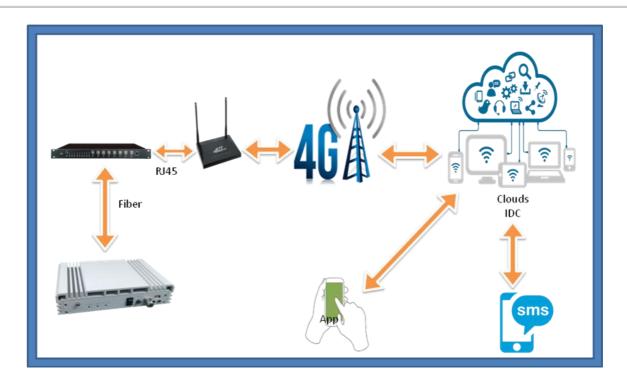
Specifications

Technical characteristics

Item		Specifications
System		LTE1800/LTE2100
Working Frequency	Uplink (MHz)	1710~1775/1920~1980
	Downlink (MHz)	1805 ~1870/2110~2170
Working Bandwidth		65MHz/60MHz
Frequency Stability(+/-0.01ppm)		≤0.01ppm
Gain Flatness		≤±3dB for All Band
AGC/ALC Range		≥10dB
Maximum Gain(Cable Access)		30dB per Band
Maximum RF Output Power		23dBm per Band(DL)
Group (System) Delay		≤1.5us
Noise Figure@Max. Gain (DL/UL)		≤5dB
Optical Output Power		0±3dBm@1550nm
Fiber Type/Number		Single mode
Optical Receiver Sensitivity		≥ -15dBm
Optical Connector Type		1xFC/APC
RF Connector Type		1xN-Female
I/O Impedance		50Ω
Ingress Protection		IP30
Operating Temperature		-10°C~50°C
Relative Humidity		≤95%
Dimensions		318x265x113mm
Weight		≤11Kg
Power Supply		AC100V ~240V, 50/60Hz
Local Control		Via USB Interface
Remote Mode		Through MU via Fiber Optical Cable
Mounting Type		Wall Mounting

XThe configuration of the 5GNR TDD synchronous slots for all operators must be the same.

Network Management System (NMS)

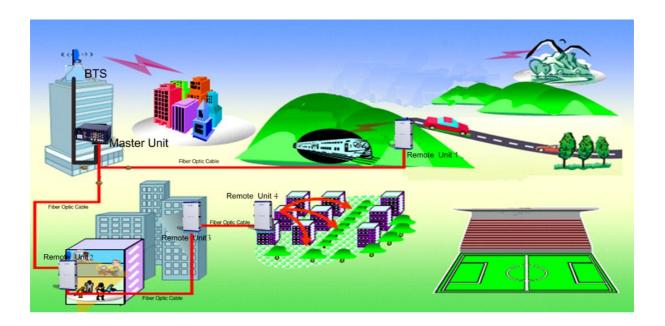


Applications

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, ...

Hotels, exhibition centers, basements, shopping malls, offices, parking lots, ...



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