

700&900&1800&2100MHz Quad-band Fiber Optic Repeater

Model: Fiber Link 404(Master Unit)

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 and Remote Unit. The Master unit captures the BTS signal via direct coupler closed to BTS, then converts it into optic signal and transmits the amplified signal to the Remote Unit via fiber optic cable.

The Remote unit 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.



Features

- Tx/Rx control and alarm messages can be transmitted via one fiber optic cable
- Adopting WDM module to realize long-distance transmission
- Stable and improved signal transmission quality
- One Master Unit can support up to 8 Remote Units to maximize utilization of fiber optic cable
- 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/LAN

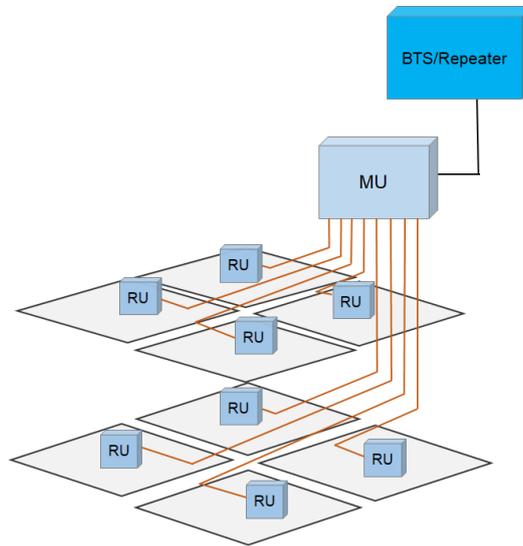
Applications

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, ...

Application Diagram



Technical Specifications

Item	Specifications	
System	LTE700&UMTS/LTE900<E1800&UMTS/LTE2100	
Working Frequency	Uplink	703~748MHz&885~915MHz&1710~1775MHz&1920~1980MHz
	Downlink	758~803MHz&930~960MHz&1805~1870MHz&2110~2170MHz
Working Bandwidth	45MHz&30MHz&65MHz&60MHz	
MU Extensible Support the RU Quantity	8	
System Gain(MU+RU)	35±3dB(Cable Access)	
Maximum Output Power(RF)	-5±2dBm(UL)	
Manual Adjustable Attenuator	0~30dB/Step 1dB	
Noise Figure@1RU Connection	≤5dB	
Optical Output Power	2±3dBm@1310nm/-6±3dBm@1550nm	
Fiber Type/Number	Single mode	
Optical Wavelength	1310nm/1550nm	
Optical Connector Type	8xFC/APC	
RF Connector Type	4xN-Female	
I/O Impedance	50Ω	
Ingress Protection	IP30	
Local Monitoring Interface	USB	
Remote Monitoring	Cloud Network Management System (Via RJ45 Interface)	

Operating Temperature	-0°C~55°C
Relative Humidity	≤95%
Dimensions	485mm×350mm×43mm
Weight	≤5Kg
Mounting Type	Wall Mount
Power Supply	POE
Power Consumption	<30W
Battery Backup/Time	30minutes
MTBF	>50000hours

Network Management System (NMS)

