

Five Band Fiber Optic Repeater

Model: FIBER LINK 104/404(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: Donor Unit and Remote Unit. The Donor 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

- Aluminum-alloy casing with IP65 protection has high resistance to dust, water and corroding
- Omni-directional antenna can be adopted to expand more coverage
- 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 Donor Unit can support up to 4 Remote Units to maximize utilization of fiber optic cable
- USB port provides a link to a notebook for local supervision or to the built-in wireless modem to communicate with the NMS (Network Management System) that can remotely supervise repeater's working status and download operational parameters to the repeater

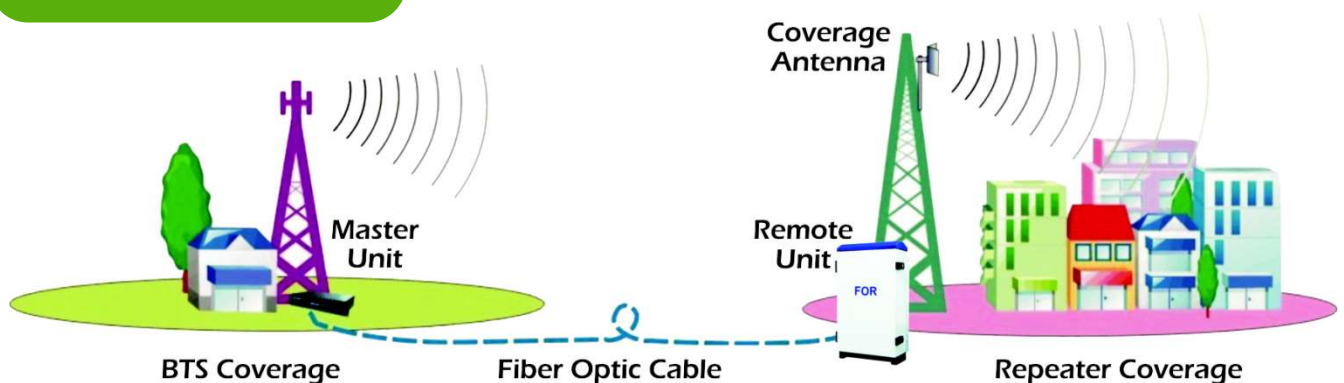
Applications

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
Working Frequency	Uplink(MHz)	703~748/885~915/1710~1775/1915~1980/2500~2570
	Downlink(MHz)	758~803/930~960/1805~1870/2110~2170/2620~2690
Working Bandwidth		45MHz/30MHz/65MHz/65,60MHz/70MHz
MU Extensible Support the RU Quantity		4
System Gain(MU+RU)		≥45dB(Cable Access)
Manual Adjustable Attenuator		0~30dB/Step 1dB
Noise Figure@1RU Connection		≤5dB
Optical Output Power		≥2dBm
Fiber Type/Number		Single mode
Optical Wavelength		1310nm/1550nm
Optical Connector Type		4xFC/APC
RF Connector Type		4xN-Female
I/O Impedance		50Ω
Ingress Protection		IP30
Local Monitoring Interface		USB2.0
Remote Monitoring Module		3G Wireless Modem
Operating Temperature		-25℃~55℃
Relative Humidity		≤85%
Dimensions		482.6x222.25x290mm
Weight		≤8Kg
Mounting Type		19" Rack Mount
Power Supply(Customized)		AC100V ~240V, 50/60Hz
Power Supply Protection		Include Short Circuit, Over Voltage and Surge protection design
Power Consumption		<45W
Battery Backup/Time		30minutes
MTBF		>50000hours