

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

#### Model: Fiber Link 408 (Remote 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

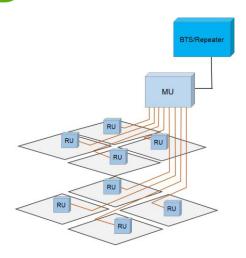
- Tx/Rx control and alarm messages can be transmitted via one fiber optic cable
- Adopting WDM module to realize long-distance transmission
- Stable and improved signal transmission quality
- One Master Unit can support up to 8 Remote Units to maximize utilization of fiber optic cable
- RJ45 port provides 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&LTE1800&UMTS/LTE2100
Working	Uplink	703~748MHz&885~915MHz&1710~1775MHz&1920~1980MHz
Frequency	Downlink	758~803MHz&930~960MHz&1805~1870MHz&2110~2170MHz
Working Bandwidth		45MHz&30MHz&65MHz&60MHz
Frequency Stability(+/-0.01ppm)		≤0.01ppm
RMS Output Power@Bandwidth		23±2dBm
Gain Flatness		≤±3dB for All Band
AGC/ALC Function		Support
AGC/ALC Range		10dB
Noise		≤5dB
Figure@Max.Gain(DL/UL)		=00D
Group(System) Delay		≤1.5us
Ingress Protection		IP30
Cooling Function		Heatsink
Local Monitoring Interface		USB2.0
Remote Monitoring Module		Through MU via Fiber Optical Cable
Optical Connector Type		1xFC/APC
RF Connector Type		1xN-Female
Operating Temperature		-10°C~55°C
Relative Humidity		≤95%
Dimensions		318mm×265mm×68mm
Mounting Type		≤7kg
Power Supply		AC100V- AC240V, 50/60Hz
Power Consumption		≤40W
Battery Backup/Time		30minutes
MTBF		>50000hours
Software Support MU/RU Models		Same EMS support different model of MU/RU
Adjustable Parameters		Set and display MU and RU ID and Location, adjust the Downlink/Uplink gain,
Function		turn on/off the RF power amplifier, remote turn on/off or restart RU;
Monitored Parameters		Real-time status for downlink output power(RSSI), optical power;
Alarm Type Classification		Three levels (such as Major, Minor, and Warning)
Alarm Parameters		Real-time alarm for O/E Converter, Low output power, Over output power, etc;



Interface Remote/Local	Terminal software suitable for Windows 7 and the above system	
Software	reminal soluvare suitable for windows 7 and the above system	
	Provide GUI interface for configuration the MU and RU, remote management	
EMS Server	each RU by MU, to set the parameters of RU, and monitoring the status and	
	alarms	