

Specifications of UHF Fiber Optic Repeater

Model: Fiber Link 104(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

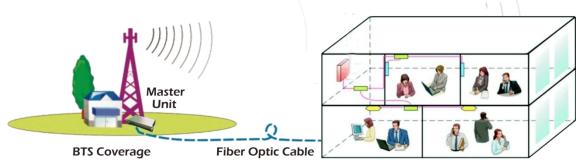
Applications

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

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System		UHF
Working	Uplink	384.95MHz
Frequency	Downlink	394.95MHz
Frequency		≤0.01ppm
Stability(+/-0.01ppm)		20.0 ippin
RMS Output		20dBm
Power@Bandwidth		
Gain Flatness		≤±3dB for All Band
AGC/ALC Function		Support
AGC/ALC Range		10dB
Noise		≤5dB
Figure@Max.Gain(DL/UL)		
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(TBD)
Mounting Type		Wall
Power Supply		AC100V- AC240V, 50/60Hz
Power Supply Protection		Include short circuit, Over Voltage and Surge protection
Power Consumption		≤50W