

3.8GHz Fiber Optic Repeater

Model: TSLB30A-7(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 16 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

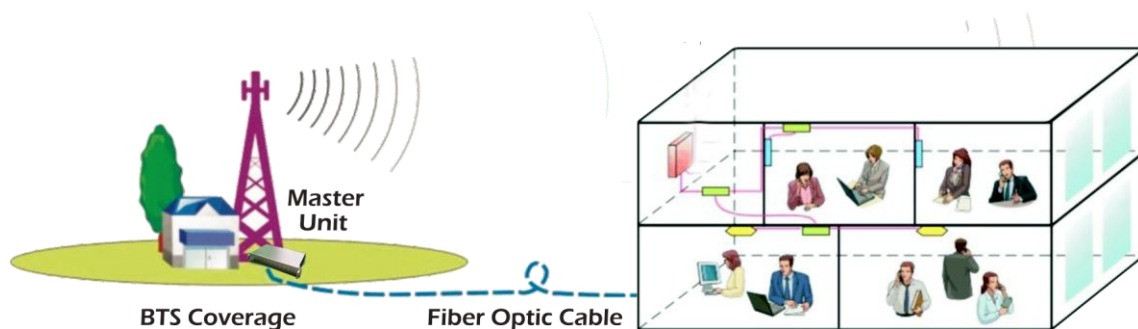
Applications

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		TDD-LTE3800
Working Frequency	Uplink	3700~3800MHz
	Downlink	3700~3800MHz
Working Bandwidth		100MHz
Frequency Stability(+/-0.01ppm)		≤0.01ppm
RMS Output Power@Bandwidth		30±2dBm(DL)
EVM		≤ 4.5%
Gain Flatness		≤±6dB for All Band
AGC/ALC Function		Support
AGC/ALC Range		10dB
Noise Figure@Max.Gain(DL/UL)		≤5dB
Group(System) Delay		≤1.5us
Cooling Function		Heatsink
Local Monitoring Interface		Via USB Interface and WiFi Hotspot
Remote Monitoring Module		Through MU via Fiber Optical Cable
Optical Connector Type		1xFC/APC
RF Connector Type		4xN-Female
Power Supply		AC100V- AC240V, 50/60Hz
Power Consumption		≤70W
Dimensions		318mm×265mm×68mm
Weight		≤8kg
Application		Indoor
Operating Temperature		-10°C~55°C
Relative Humidity		≤95%