5GNR TDD-4.8GHz
Fiber Optic Repeater (Cable Access)
MU with 4X4 MIMO (Remote Unit 23dBm)
Fiber Link-408

4800~4900 MHz

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5GNR n79 4.8G TDD

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 (MU) and Remote Unit (RU). The MU captures the BTS/Repeater signal via direct coupler closed to BTS/Repeater, then converts it into optic signal and transmits the amplified signal to the RU via fiber optic cable. The RU 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.

Key features

- Supports 4 x 4 MIMO
- Stable and improved signal transmission quality. Each Tx/Rx requires one core of fiber optic cable transmission, so 4T4X require four cores fiber optic cable.
- Built-in 5G Dynamic TDD Sync Detection Module, automatic completion of 5G wireless network cell search and wireless signaling processing
- One MU can support up to 8 RUs to maximize utilization of fiber optic cable, (A star topology is supported between MU and RU)
- USB 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.

Advantages

☑ Multi_standards/Multi_operators

☑ Adopting WDM module to realize long-distance transmission

☑ Stable and Improved Signal Transmission Quality

☑ Smart Mode (Automatically adjust the gain)

☑ NMS (Network Management System)

 Website http://www.jtd.com.tw

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Specifications

Technical characteristics

Item		Specifications
		RU
System		5GNR TDD-4.8GHz with 4x4 MIMO
Working Frequency	Uplink	4800~4900MHz&4800~4900MHz&4800~4900MHz&4800~4900MHz
	Downlink	4800~4900MHz&4800~4900MHz&4800~4900MHz&4800~4900MHz
Working Bandwidth		100MHz&100MHz&100MHz&100MHz
Frequency Stability		≤0.01ppm
Gain of RU		35±3dB Per Band
RMS Output Power(DL)		23±2dBm Per Band
Manual Adjustable Attenuator		0~20dB/Step 1dB
AGC/ALC		≥10dB
EVM		≤4.5%
ACPR		≤-40dBc
Optical Output Power		0±3dBm@1310nm
Fiber Type/Number		Single mode
Optical Receiver Sensitivity		≥-12dBm
Optical Connector Type		4xFC/APC
RF Connector Type		4xN-Female
I/O Impedance		50Ω
Ingress Protection		IP30
Operating Temperature		-10℃~50℃
Relative Humidity		≤95%
Dimensions		318x265x113mm
Weight		≤ 10Kg
Mounting Type		Wall Mounting
Power Supply		AC100~240V, 50/60Hz
Power Consumption		≤ 80W
Cooling Function		Heat Sink
MTBF		>50000hours
Local Control		Via USB Interface or Wi-Fi Hotspot
Remote Control		Through MU via Fiber Optical Cable

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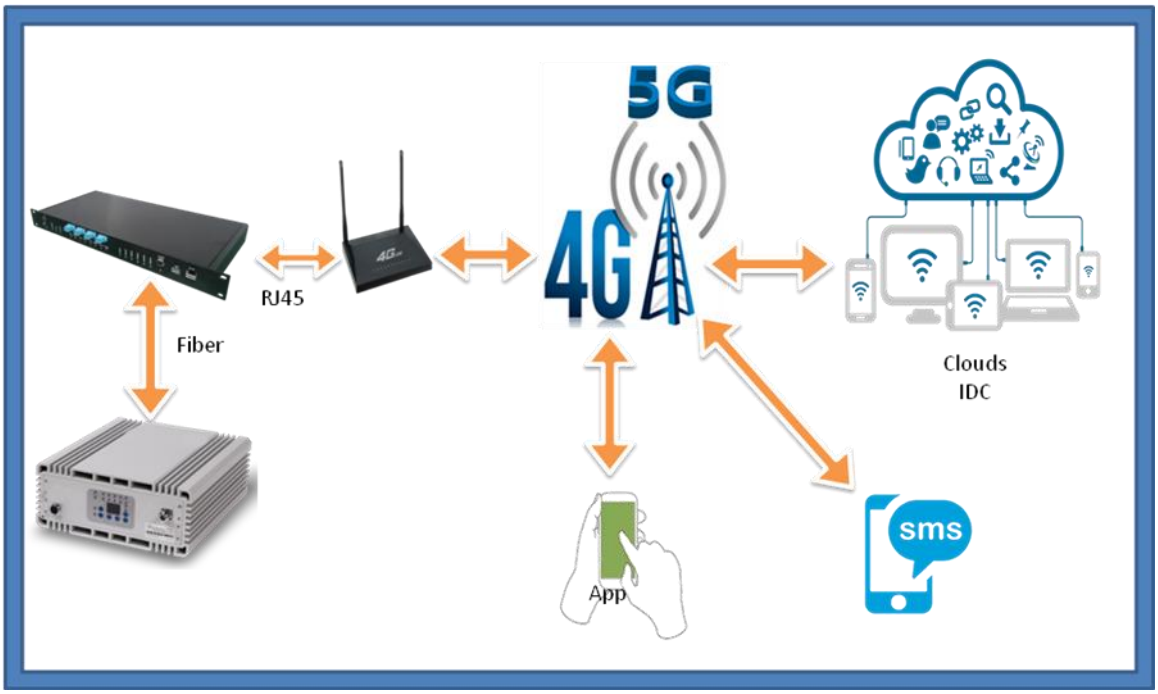
NMS (Network Management System)

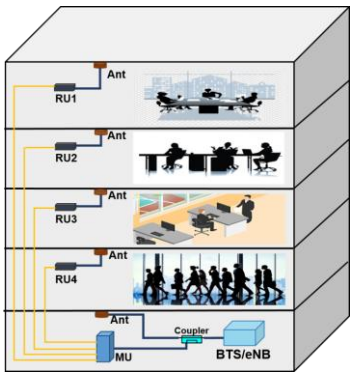


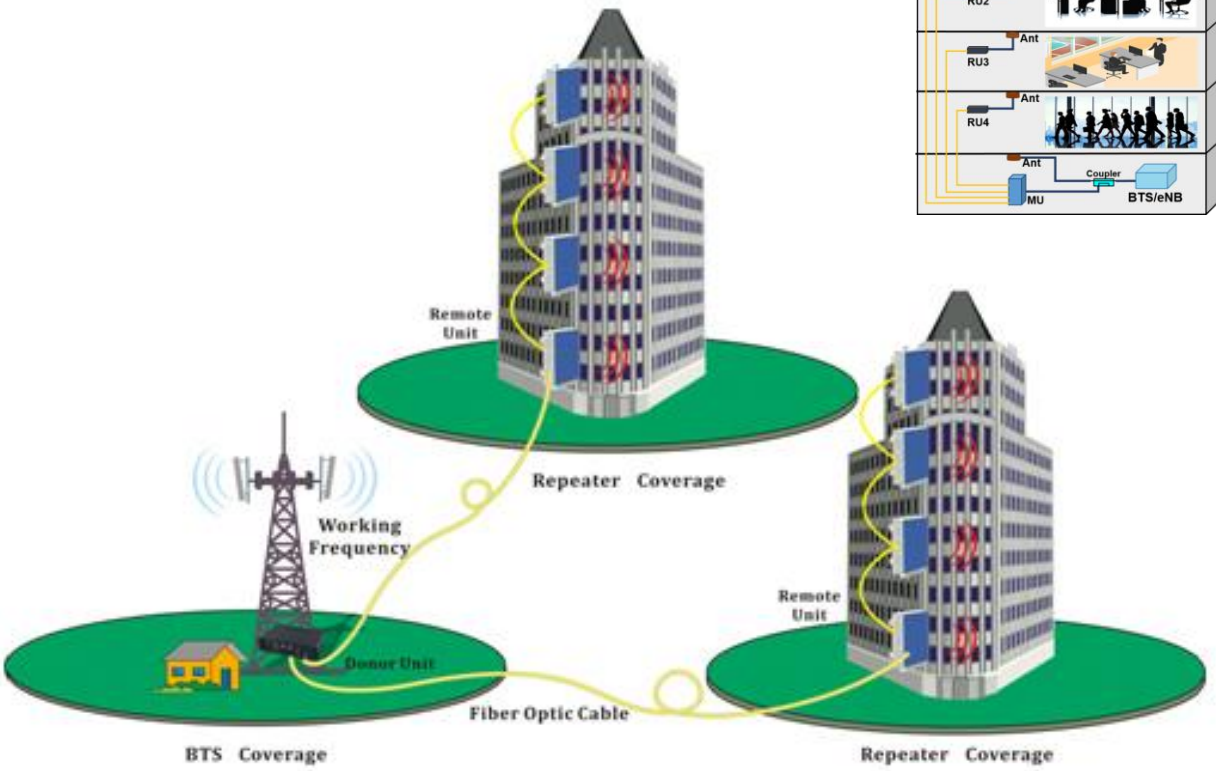
Applications

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, …





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