Pico RF Repeater_Single Band

2100 MHz

TS-C20E-W (20dBm)



UMTS/LTE2100

The Pico Repeater provides an affordable solution to solve the indoor signal coverage problems due to signal fading and attenuation caused by architecture obstacles. And its easy installation and maintenance can help carrier get fast return.

The repeater is working as a relay between the BTS and mobiles. It picks up the strongest signal from BTS via the Donor Antenna, linearly amplifies the signal and then retransmits it via the Indoor Signal Distribution System to the weak/blind coverage area. And the mobile signal is also amplified and retransmitted to the BTS via the opposite direction.

Key features

- Two signal ports with full duplex design.
- Linear power amplification to effectively suppress inter-modulation and spurious emission.
- Stable and improved signal transmission quality.
- Compact size with stable performance.
- Support antenna isolation detection.
- Signal strength indication.
- Low interference & Oscillation prevention.
- Simple installation with external AC/DC adapter

Advantages

- ☑ Multi_standards/Multi_operators
- **☑** Cost-effective
- **☑** Low consumption



Specifications

Technical characteristics

Item		Specifications
System		UMTS/LTE2100
Working Frequency	Uplink	1920~1980MHz
	Downlink	2110~2170MHz
Working Bandwidth		60MHz
Maximum Output Power		20dBm (DL) 15dBm (UL)
Maximum Gain		70dB
AGC Range		≥ 25dB
MGC Range		4/8/12 dB @ Step of 4dB
VSWR		≤ 1.5
System Delay		≤ 1.0µs
Noise Figure		≤6dB
Spurious Emission		9kHz~1GHz: ≤ -36dBm
		1GHz~12.75GHz: ≤ -30dBm
Signal Strength Indicator		OFF when input signal ≦5dBm; GREEN when input signal 5~10dBm; RED when input signal at its maximum power
Alarm Monitoring System		Power LED, ISO LED Indicator
Isolation Detection		Isolation Check During Boot Time
RF Connector Type		2xN-Female
I/O Impedance		50Ω
Ingress Protection		Indoor (IP40)
Operating Temperature		-10°C~50°C
Relative Humidity		≤95%
Dimensions		118.2x91.2x18.2mm
Weight		≤1Kg
Power Supply		AC100V ~240V, 50/60Hz

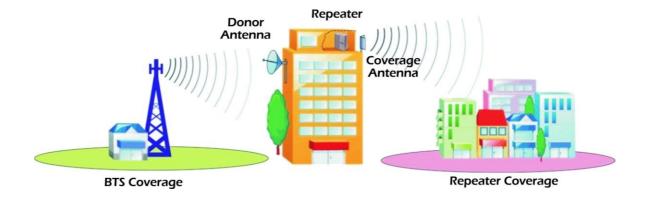
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Applications

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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