

Pico RF Repeater_Dual Band



Tone Spread
Solutions for Wireless Signal

1800~2100 MHz

TS-C20N-DW (20dBm)

LTE1800+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.
- Smart Automatic Level Control (ALC) ensures output level stable and adjustable continuously.
- Auto Isolation check between service and donor antennas.
- LCD real-time display to show the working status of each system.
- Auto shut off function available for both uplink and downlink.
- Smart mode to auto-adjust gain according to the isolation and signal level received by donor site.
- Simple installation with external AC/DC adapter

Advantages

- ❖ Multi_Standards/Multi_Operators
- ❖ LCD real-time display
- ❖ Smart Automatic Level Control
- ❖ Auto Shut Off Function



Specifications

Technical characteristics

Item	Specifications
System	LTE1800/LTE2100
Working Frequency	Uplink 1710~1785MHz/1920~1980MHz
	Downlink 1805~1880MHz/2110~2170MHz
Working Bandwidth	75MHz/60MHz
Maximum Output Power	≥20dBm (DL) ≥15dBm (UL) per Band
Maximum Gain	≥65dB (UL) ≥70dB (DL)
AGC Range	≥ 25dB
MGC Range	0~30dB@Step of 1 dB
VSWR	≤ 1.5
System Delay	≤ 1.0μs
Noise Figure	≤6dB
Spurious Emission	9kHz~1GHz: ≤ -36dBm
	1GHz~12.75GHz: ≤ -30dBm
Alarm Monitoring System	Uplink Self-Oscillation, LED Indicator
Isolation Detection	Isolation Check During Boot Time
RF Connector Type	2xN-Female or 2x SMA
I/O Impedance	50Ω
Ingress Protection	Indoor (IP40)
Operating Temperature	-10°C~50°C
Relative Humidity	≤95%
Dimensions	215x132x22mm
Weight	≤1.5Kg
Power Supply	AC100V ~240V, 50/60Hz, ≤12W
Local Control	Key Pad
Remote Mode	N/A
Mounting Type	Wall Mounting

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, ...

