

Pico RF Repeater_Dual Band



1800-2100 MHz

TS-C20B-DW (20dBm)

Tone Spread
Solutions for Wireless Signal

LTE1800+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.
- MGC available for both uplink and downlink.
- Automatic Level Control (ALC/AGC) ensures output level stable and adjustable continuously.
- LCD display to show the gain for each link.
- Reset to put the parameter to default value.
- Simple installation with external AC/DC adapter.

Advantages

- ☑ **Multi_standards/Multi_operators**
- ☑ **Reset to put the parameter to default value**
- ☑ **MGC available for both uplink and downlink**
- ☑ **AGC to control output power at its maximum power level.**



Specifications

Technical characteristics

Item	Specifications
System	LTE1800/UMTS<E2100
Working Frequency	Uplink 1710~1775MHz/1920~1980MHz
	Downlink 1805~1870MHz/2110~2170MHz
Working Bandwidth	65MHz/60MHz
Maximum Output Power	Uplink ≥ 15 dBm per Band
	Downlink ≥ 20 dBm per Band
Maximum Gain	Uplink ≥ 65 dB
	Downlink ≥ 70 dB
AGC Range	≥ 25 dB
MGC Range	0~31dB@Step of 1 dB
VSWR	≤ 1.5
System Delay	$\leq 1.0\mu\text{s}$
Noise Figure	≤ 6 dB
Spurious Emission	9kHz~1GHz: ≤ -36 dBm
	1GHz~12.75GHz: ≤ -30 dBm
Power LED	DC ON/OFF
AGC LED	GREEN @ Normal, Red @ ALC is in control
RF Connector Type	2xN-Female
I/O Impedance	50 Ω
Ingress Protection	Indoor (IP40)
Operating Temperature	-10°C~50°C
Relative Humidity	$\leq 95\%$
Dimensions	225x160x30mm
Weight	≤ 1 Kg
Power Supply	AC100V ~240V, 50/60Hz; Output: DC 5V/3A
Local Control	LCD display to show the gain for each link. MGC available for both uplink and downlink.
Default Mode	Reset to put the parameter to default value.
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, ...

