

Pico RF Repeater_Dual Band



Tone Spread
Solutions for Wireless Signal

1800-2100 MHz

TS-RP-DW-70-20 (20dBm)

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/RF Power 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 1710~1785MHz/1920~1980MHz
	Downlink 1805~1880MHz/2110~2170MHz
Working Bandwidth	75MHz/60MHz
Maximum Output Power	Uplink ≥15dBm per Band
	Downlink ≥ 20dBm per Band
Maximum Gain	Uplink ≥ 65dB
	Downlink ≥ 70dB
AGC Range	≥ 25dB
MGC Range	0~31dB@Step of 1 dB
VSWR	≤ 1.2
System Delay	≤ 1.0μs
Noise Figure	≤6dB
Spurious Emission	9kHz~1GHz: ≤ -36dBm
	1GHz~12.75GHz: ≤ -30dBm
OIP3	36dBm
Power LED	DC ON/OFF
AGC LED	GREEN @ Normal, Red @ ALC is in control
RF Connector Type	2xN-Female
I/O Impedance	50Ω
Ingress Protection	Indoor (IP40)
Operating Temperature	-10°C~50°C
Relative Humidity	≤95%
Dimensions	128x170x65mm
Weight	≤2.2Kg
Power Supply	AC100V ~240V, 50/60Hz; Output: DC 6V/3A
ISO	When AGC control over 25dB range, the ISO will turn to RED, and repeater will shut off automatically.
Smart Mode	Automatically adjust the gain in both links according to the specific environment.
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, ...

