

Pico RF Repeater_Dual Band



1800-2100 MHz

TS-C27L-DW (27dBm)

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

Advantages

- ☑ **Multi_standards/Multi_operators**
- ☑ **Smart function to set the proper gain automatically**
- ☑ **LCD real time display to show the instant power and gain**
- ☑ **Auto shut off function**



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	≥ 20dBm per Band
	Downlink	≥ 27dBm per Band
Maximum Gain	Uplink	≥ 70dB
	Downlink	≥ 75dB
AGC Range	≥ 25dB	
MGC Range	0~31dB@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	
I/O Impedance	50Ω	
Ingress Protection	Indoor (IP40)	
Operating Temperature	-10°C~50°C	
Relative Humidity	≤95%	
Dimensions	310x170x65mm	
Weight	≤5Kg	
Power Supply	AC100V ~240V, 50/60Hz; Output: DC 10V/6A	
Local Control	LCD real time display to show the instant power and gain for each link. MGC available for both uplink and downlink.	
Smart Mode	Smart function to set the proper gain automatically	
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, ...

