

Digital Pico RF Repeater_Quad-Band

700-2700 MHz TS-DRP-LGDW-60-20 (20dBm)



Tone Spread
Solutions for Wireless Signal

LTE700+LTE900+LTE1800+LTE2100

The Digital 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.
- 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**
- ☑ **Remote control**
- ☑ **Digital features:**
 - Balancing operator level (Option)**
- ☑ **Low consumption**



Specifications

Technical characteristics

Items		Specifications			
System		LTE700	UMTS/LTE900	LTE1800	UMTS/LTE2100
Frequency Range	Uplink	703~748MHz	885~915MHz	1710~1775MHz	1920~1980MHz
	Downlink	758~803MHz	930~960MHz	1805~1870MHz	2110~2170MHz
Working Frequency (MHz) (Default)	Uplink	703~713/713~723 723~728/728~748	885~895/895~905 905~915	1710~1725/1725~1735 1735~1755/1755~1775	1920~1935/1935~1940/ 1940~1960/1960~1980
	Downlink	758~768/768~778 778~783/783~803	930~940/940~950 950~960	1805~1820/1820~1830/ 1830~1850/1850~1870	2110~2125/2125~2130/ 2130~2150/2150~2170
Bandwidth(Digital Filter)		4 Sub-bands, BW Can be Adjusted per Sub-band by Firmware Upgrading of Digital Module	3 Sub-bands, BW Can be Adjusted per Sub-band by Firmware Upgrading of Digital Module	4 Sub-bands, BW Can be Adjusted per Sub-band by Firmware Upgrading of Digital Module	4 Sub-bands, BW Can be Adjusted per Sub-band by Firmware Upgrading of Digital Module
Maximum Gain	Uplink	60±3dB per Band			
	Downlink	60±3dB per Band			
Maximum Output Power	Uplink	20±2dBm per Band			
	Downlink	20±2dBm per Band			
Manual Gain Control Range		≥20dB(The Gain of Each Sub-band can be Adjusted Separately)			
AGC Range		≥20dB			
Maximum Input power		≤-10dBm(Non-Destructive)			
VSWR		≤2			
Group Delay Time		≤ 8μs			
I/O Impedance		50 Ω			
Noise Figure		≤8dB			
Spurious Emission		9kHz~1GHz: ≤ -36dBm			
		1GHz~12.75GHz:≤-30dBm			
RF Connector		5 X N-Female(1PCS BS Port and 4 PCS MS Ports)			
Power Consumption		≤ 100W			
Power Supply		Input:AC100~ 240V			
Dimensions		361*265*113mm			
Weight		≤12 kg			
Alarm Monitoring System		Alarm for Uplink Self-Oscillation			
Isolation Detection		Isolation Check During Boot Time			
LED Indicator		Power Supply, Alarm, State			
Operating Temperature		-10 ~ +50 °C			
Application		Indoor(IP30)			

Relative Humidity Range	≤95%(Non condensing)
Mounting Type	Wall Mounting

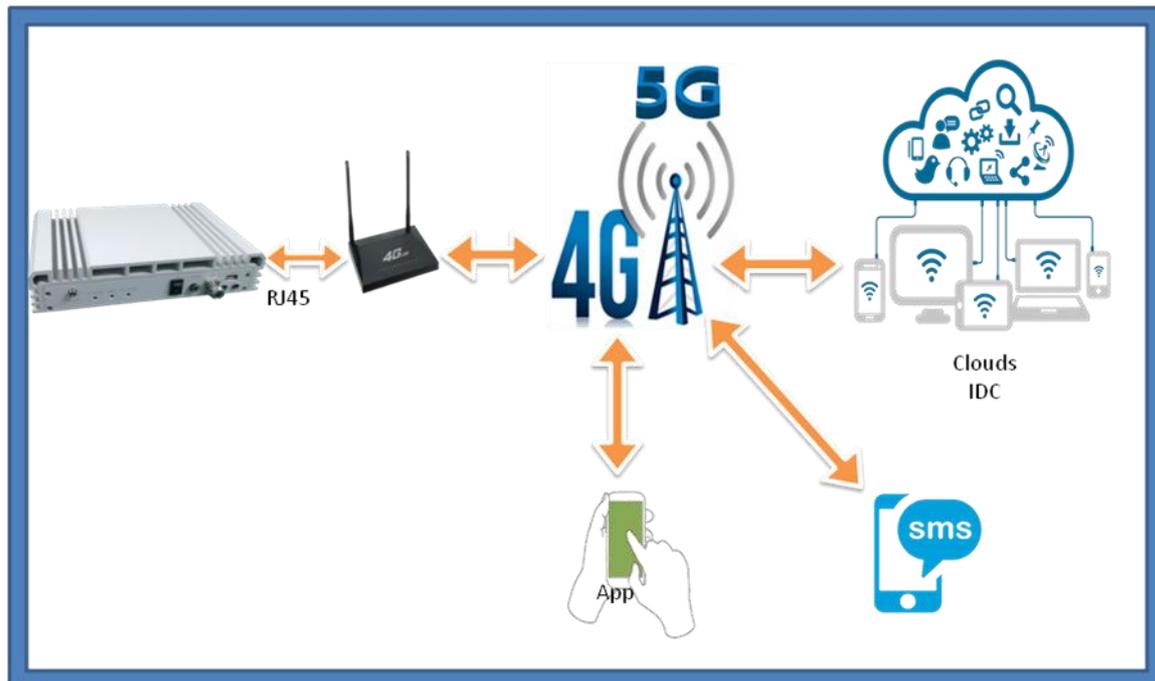
Local Monitoring Interface

USB

Remote Monitoring

Cloud NMS via RJ45 Port

Network Management System (NMS)



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, ...

