

## LTE700+LTE900+5G NR (TDD-3.5GHz) Triple-Band Pico Repeater



700+900+3500 MHz **JTD-RP-LGN-60-17 (17dBm)**

**JIETONG DIGITAL**

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### LTE700+LTE900+5G NR (TDD-3.5GHz)

The **JTD-RP-LGN-60-17** RF 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

- Built-in 5G Dynamic TDD Sync Detection Module, automatic completion of 5G wireless network cell search and wireless signaling processing.
- Linear power amplification to effectively suppress inter-modulation and spurious emission.
- Two signal ports with full duplex design.
- 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.
- Simple installation with external AC/DC adapter.

### Advantages

- ☑ **Multi\_standards/Multi\_operators**
- ☑ **Smart Automatic Level Control**
- ☑ **Auto Isolation check**
- ☑ **Built-in 5G Dynamic TDD Sync Detection Module**



# Specifications

## Technical characteristics

Items		Specifications
System		LTE700+LTE900+5G NR (TDD-3.5GHz)
Frequency Range	Uplink	703~748+885~915+3300~3570MHz
	Downlink	758~803+930~960+3300~3570MHz
Bandwidth		45MHz+30MHz+270MHz
Maximum Gain	Uplink	60±2dB per Band
	Downlink	60±2dB per Band
Maximum Output Power	Uplink	17±2dBm per Band
	Downlink	-5±2dBm per Band
AGC&MGC Range		≥20dB
Maximum Input power(Non-destructive)		≤0dBm
VSWR		≤2.5
Group Delay Time		≤ 1.5μs
I/O Impedance		50 Ω
Noise Figure		≤8dB
Spurious Emission		9kHz~1GHz: ≤ -36dBm
		1GHz~12.75GHz:≤-30dBm
RF Connector		4XN-Female(1PCS BS Port and 3 PCS MS Ports)
Power Consumption		≤ 40W
Power Supply		Input:AC100~ 240V
Dimensions		318*265*68mm
Weight		≤ 7kg
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		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, ...

