

# CIRITEK RF Repeaters System

## TS-300 UHF Band Selective RF Pico Repeater

Ciritek RF Repeaters system is designed to solve problems of weak mobile signal, which is much cheaper than adding a new Base Station (BTS). Main operation of RF Repeaters system is to receive low-power signal from BTS via radio frequency (RF) transmission and then transmit the amplified signal to the areas where network coverage is inadequate. And the mobile signal is also amplified and transmitted to the BTS via the opposite direction.

### Main Features

- Superior RF performance, high efficiency
- High Gain and low Noise Figure
- Operating frequency can be customized
- Advanced PA technology, high stability and reliability
- Easy installation, operation and maintenance
- Flexible to any environment and low cost

### Applications :

- Outdoor: Airports, Tourism Regions, Golf Courses, Tunnels, Factories, Mining Districts, Villages etc.
- Indoor: Hotels, Exhibition Centers, Basements, Shopping Malls, Offices, Packing Lots etc



**Customization**  
**Flexibility**  
**Cost effective**

## Specifications

Items	Parameters	
	Downlink	Uplink
Frequency Range	390MHz~395MHz	380MHz~385MHz
	380MHz~470MHz Can be customized according to customer requirements	
Output Power (Max)	25±1dBm(Total)	17±1dBm(Total)
Max Gain	80±3dB	80±3dB
Gain Modulation Range	30dB	
Gain Modulation Step	1dB	
Gain Modulation Error	While gain is 0-20dB, Error±1dB; While gain is 21-30dB, Error±1.5dB	
Noise Factor	≤6.5dB	≤6.5dB
Max NO Damage Input Power	-10dBm	-10dBm
Automatic Level Control (ALC)	Output power variation < 2dB or be off when adding 10dB max output power.	
Pass Band Ripple	≤3dB	
VSWR	≤1.5	
Time Delay	≤5.0μs	
Spurious Emissions	In-Band	≤-36dBm/30kHz
	Out-Band(Deviation from the band edge outside 2.5MHz)	9kHz~1GHz ≤-36dBm
		1GHz~12.75GHz ≤-30dBm
IMD	In-Band	≤-36dBm/30kHz
	Out-Band(Deviation from the band edge outside 2.5MHz)	9kHz~1GHz ≤-36dBm
		1GHz~12.75GHz ≤-30dBm
Frequency Stability	≤0.05ppm	
Out of band Gain	≤50dB@400kHz ≤40dB@600kHz ≤35dB@1MHz ≤25dB@5MHz	
Local Monitoring & Control	USB	
RF Connection Mode	N/F, 50Ω	
Power Supply Mode	The Power adapter, In: AC 100V~260V, 45~55Hz; Out: 9V/5A;	
Power Consumption	≤50W	
Operation Temperature	0°C ~ +50°C	
Storage Temperature	-40°C ~ +85°C	
Mounting	Wall Mounted	
Machine Weight	≤4kg	
Dimension	296mm×76mm×280mm W*H*L )	
MTBF	≥100000h	

## Machine Drawing



## Repeater Chassis Customizing



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