Ciritek RF Repeaters System TS-80 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

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

Applications:

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



Customization Flexibility Cost effective

Specifications

Pass Band Ripple	Items		Parameters	
Prequency Range 390MHz~395MHz 380MHz~395MHz			Downlink	Uplink
Max Gain 70±3dB 70±3dB 30dB	Frequency Range			·
Gain Modulation Range 30dB	Output Power Max)		19±1dBm(Total)	17±1dBm(Total)
Gain Modulation Step Gain Modulation Error While gain is 0-20dB,Err□ts1.5dB Sc 5.dB			70±3dB	70±3dB
Gain Modulation Step	Gain Modulation Range		30dB	
While gain is 0-20dB,ErrentdB,While gain is 21-30dB			1dB	
Noise Factor ≤6.5dB ≤6.5dB Max NO Damage Input Power	·		While gain is 0-20dB,ErrendB;While gain is 21-30dB	
Max NO Damage Input Power -10dBm -10dBm -10dBm				
Automatic Level Control ALC) Output power variation < 2dB or be off when adding 10d max output power.	111111111111111111111111111111111111111			
Pass Band Ripple				
VSWR ≤2.0	Automatic Level Control ALC)			
Time Delay	Pass Band Ripple		≤3dB	
In-Band Spurious Spurious Out-Band(Deviation from the band edge outside 2.5MHz) In-Band S-36dBm/30kHz S-36dBm In-Band S-36dBm/30kHz In-Band S-36dBm/30kHz In-Band S-36dBm/30kHz S-36dBm In-Band S-36dBm/30kHz S-36dBm/	VSWR		≤2.0	
Spurious Emissions Out-Band(Deviation from the band edge outside 2.5MHz) 9kHz~1GHz ≤-36dBm IMD In-Band ≤-36dBm/30kHz IMD Out-Band(Deviation from the band edge outside 2.5MHz) 9kHz~1GHz ≤-36dBm Frequency Stability 9kHz~1GHz ≤-36dBm Frequency Stability ≤0.05ppm SodB@400kHz ≤40dB@600kHz ≤35dB@1MHz ≤55dB@50MHz Local Monitoring & Control LCD panel RF Connection Mode N/F,5ΩΩ Power Supply Mode The Power adapter, In: AC 100V~260V,45~55Hz; Out: 9V/5A; Power Consumption ≤30W Operation Temperature 0°C ~ +50°C Storage Temperature -40°C ~ +85°C Mounting Wall Mounted Machine Weight ≤4kg Dimension 296mm×76mm×191mm W*H*L)	Time Delay		≤5.0 µs	
Control (everation from the band edge outside 2.5MHz) IMD In-Band ≤36dBm/30kHz Out-Band(Deviation from the band edge outside 2.5MHz) 9kHz~1GHz ≤36dBm Frequency Stability ≤0.05ppm Out of band Gain ≤50dB@400kHz ≤40dB@600kHz ≤40dB@600kHz ≤35dB@1MHz ≤25dB@5MHz Local Monitoring & Control LCD panel RF Connection Mode N/F,50Ω Power Supply Mode The Power adapter, In: AC 100V~260V,45~55Hz; Out: 9V/5A; Power Consumption ≤30W Operation Temperature 0°C ~ +50°C Storage Temperature -40°C ~ +85°C Mounting Wall Mounted Machine Weight ≤4kg Dimension 296mm×76mm×191mm W*H*L)		In-Band	≤-36dBm/30kHz	
IMD In-Band S-36dBm/30kHz In-Band S-36dBm/30kHz Out-Band(Deviation from the band edge outside 2.5MHz) Frequency Stability S-0.05ppm SodB@400kHz S-30dBm Frequency Stability S-0.05ppm SodB@400kHz S-36dBm/30kHz SodB@400kHz S-30dBm SodB@400kHz S-36dB@400kHz S-36dB@400kHz S-36dB@400kHz S-36dB@400kHz SodB@600kHz S-36dB@50kHz Local Monitoring & Control LCD panel RF Connection Mode N/F,50Ω Power Supply Mode The Power adapter, In: AC 100V~260V,45~55Hz; Out: 9V/5A; Power Consumption S-30W Operation Temperature 0°C ~ +50°C Storage Temperature -40°C ~ +85°C Mounting Wall Mounted Machine Weight S-4kg Dimension 296mm*76mm*191mm W*H*L)		from the band edge	9kHz~1GHz: ≤-36dBm	
IMD Out-Band(Deviation from the band edge outside 2.5MHz) 9kHz~1GHz ≤-36dBm Frequency Stability ≤0.05ppm Out of band Gain ≤50dB@400kHz ≤40dB@600kHz ≤35dB@1MHz ≤25dB@5MHz Local Monitoring & Control LCD panel RF Connection Mode N/F,5QQ Power Supply Mode The Power adapter, In: AC 100V~260V,45~55Hz; Out: 9V/5A; Out: 9V/5A; Power Consumption ≤30W Operation Temperature 0°C ~ +50°C Storage Temperature -40°C ~ +85°C Mounting Wall Mounted Machine Weight ≤4kg Dimension 296mm*76mm*191mm W*H*L)			1GHz~12.75GHz ≤-30dBm	
from the band edge outside 2.5MHz) Frequency Stability Out of band Gain Secontrol RF Connection Mode Power Supply Mode Power Consumption Operation Temperature Mounting Machine Weight Frequency Stability Souds 90,05ppm Souds 9400kHz Souds 940dB@600kHz Souds 940dB@600kHz Souds 940dB@600kHz Souds 95dB@1MHz Souds 95dB@5MHz LCD panel N/F,50Ω The Power adapter, In: AC 100V~260V,45~55Hz; Out: 9V/5A; Souds 9V/5A; Vall Mounted Machine Weight Souds 94kg Dimension 10 C ~ +85°C Wall Mounted Souds 94kg Dimension 296mm×76mm×191mm W*H*L)	IMD	In-Band	≤-36dBm/30kHz	
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Out of band Gain S40dB@600kHz S35dB@1MHz S25dB@5MHz Local Monitoring & Control RF Connection Mode N/F,5ΩΩ Power Supply Mode The Power adapter, In: AC 100V~260V,45~55Hz; Out: 9V/5A; Power Consumption Storage Temperature O'C ~ +50'C Storage Temperature Mounting Wall Mounted Machine Weight S40dB@600kHz S25dB@5MHz LCD panel N/F,5ΩΩ The Power adapter, In: AC 100V~260V,45~55Hz; Out: 9V/5A; Wall Mounted Storage Temperature -40'C ~ +85'C Mounting Wall Mounted S4kg Dimension 296mm×76mm×191mm W*H*L)	Frequency Stability		• •	
S350B@1MHZ ≤25dB@5MHz Local Monitoring & Control RF Connection Mode N/F,5ΩΩ Power Supply Mode The Power adapter, In: AC 100V~260V,45~55Hz; Out: 9V/5A; Power Consumption ≤30W Operation Temperature 0°C ~ +50°C Storage Temperature -40°C ~ +85°C Mounting Wall Mounted Machine Weight ≤4kg Dimension 296mm×76mm×191mm W*H*L)	Out of band Gain		≤40dB@600kHz	
RF Connection Mode N/F,5ΩΩ Power Supply Mode The Power adapter, In: AC 100V~260V,45~55Hz; Out: 9V/5A; Power Consumption ≤30W Operation Temperature 0°C ~ +50°C Storage Temperature -40°C ~ +85°C Mounting Wall Mounted Machine Weight ≤4kg Dimension 296mm×76mm×191mm W*H*L)				
Power Supply Mode The Power adapter, In: AC 100V~260V,45~55Hz; Out: 9V/5A; Power Consumption ≤30W Operation Temperature 0°C ~ +50°C Storage Temperature -40°C ~ +85°C Mounting Wall Mounted Machine Weight ≤4kg Dimension 296mm×76mm×191mm W*H*L)	Local Monitoring & Control		LCD panel	
In: AC 100V~260V,45~55Hz; Out: 9V/5A; Power Consumption ≤30W Operation Temperature 0°C ~ +50°C Storage Temperature -40°C ~ +85°C Mounting Wall Mounted Machine Weight ≤4kg Dimension 296mm×76mm×191mm W*H*L)	RF Connection Mode		N/F,50Ω	
Out: 9V/5A; Power Consumption ≤30W Operation Temperature 0° ~ +50° C Storage Temperature -40° ~ +85° C Mounting Wall Mounted Machine Weight ≤4kg Dimension 296mm×76mm×191mm W*H*L)	Power Supply Mode		The Power adapter,	
Power Consumption Storage Temperature O'C ~ +50'C Storage Temperature -40'C ~ +85'C Mounting Wall Mounted Machine Weight ≤4kg Dimension 296mm×76mm×191mm W*H*L)			In: AC 100V~260V,45~55Hz;	
Operation Temperature O°C ~ +50°C Storage Temperature -40°C ~ +85°C Mounting Wall Mounted Machine Weight ≤4kg Dimension 296mm×76mm×191mm W*H*L)			Out: 9V/5A;	
Storage Temperature -40°C ~ +85°C Mounting Wall Mounted Machine Weight ≤4kg Dimension 296mm×76mm×191mm W*H*L)	Power Consumption		≤30W	
Mounting Wall Mounted Machine Weight ≤4kg Dimension 296mm×76mm×191mm W*H*L)	Operation Temperature		0℃ ~ +50℃	
Machine Weight ≤4kg Dimension 296mm×76mm×191mm W*H*L)	Storage Temperature		-40°C ∼ +85°C	
Dimension	Mounting		Wall Mounted	
MTDE	Machine Weight		≤4kg	
MTRF	Dimension		296mm×76mm×191mm W*H*L)	
M1BF ≥100000h	MTBF		≥100000h	

Machine Drawing



Repeater Chassis Customizing







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