

# FM Digital Channel Selective Repeater

87.5-108 MHz

JTD-7S27G24



JIETONG DIGITAL

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The FM RF Repeater provides an affordable solution to solve the indoor signal coverage problems due to FM signal fading and attenuation caused by architecture obstacles. And its easy installation and maintenance can help carrier get fast return.

The FM repeater is working as a relay between the FM BTS and FM Receiver. It picks up the strongest signal from FM BTS via the Donor Antenna, linearly amplifies the signal and then retransmits it via the Indoor FM Signal Distribution System to the weak/blind coverage area.

## Key features

- Aluminum-alloy casing with IP65 protection has high resistance to dust, water and corrosion
- Low interference to FM BTS by adopting linear amplifier with high gain and low noise
- Adopting filter with highly selectivity and low insertion loss eliminates interference between uplink and downlink
- DSP module support up to 24 channels simultaneously
- USB port provides a link to a notebook for local supervision or to the built-in wireless modem to communicate with the NMS (Network Management System) that can remotely supervise repeater's working status and download operational parameters to the repeater
- Cost-effective for practical solutions.

## Advantages

Multi\_standards/Multi\_operators

Supports up to 24 channels

Alarm Relay Output

Remote Control



# Specifications

Items		Specifications
Frequency Range	Uplink	---
	Downlink	87.5-108MHz
Number of Channels(Digital Filter)		Up to 24
Channel Bandwidth		200KHz
Uplink		---
Maximum Output Power	Uplink	27±2dBm per Carrier@1 Carrier
	Downlink	24±2dBm per Carrier@2 Carriers 21±2dBm per Carrier@4 Carriers 18±2dBm per Carrier@8 Carriers
Maximum Gain		85±3dB
Manual Attenuation Adjustment Range		0-30dB @ step of 1 dB
AGC		≥20dB
Maximum Input Power		-10dBm
OIP3		+54dBm, Typical
Third-order Inter-Modulation		≤ -36dBm
Spurious Emissions from RF Port		< -36dBm
Noise Figure		≤ 5dB
Spurious Emission		9KHz-1GHz: ≤-36dBm
		1GHz-12.75GHz: ≤-30dBm
I/O Impedance		50 Ω
RF Connector		2xN-Female
External Alarm Inputs		Dry Contact Alarm: 4 Relays Inputs
Alarm Relay Output		Dry Contact Alarm: 1 Relay Output(TTL Signal Generated for Real-Time Alarm)
Operating Temperature Range		-25°C ~+55°C
Relative Humidity Range		≤ 95% (Non Condensing)
Complies with		R&TTE Directive including, EN 301 489-18 ETSI TS 101 789-1, EN 60 950
Power Supply		AC100-240V, 50/60Hz
Power Consumption		≤140W
Dimensions		447* 357*171mm
Weight		≤16kg
Application		Indoor or Outdoor(IP65)
Cooling		Convection
Mounting		Wall or Pole Mounting
Local Control		Via USB Interface
Remote Control Module		Cloud NMS Via 4G(EC25) Wireless Modem

# Applications

To expand FM 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, ...

