

FIVE Band Signal Repeater

Specifications V1.0

1. Main Features

- Wide band repeater to support signals of all operators.
- High-integration (One board to contain low-noise amplifier, frequency selection module)
- Manual gain control provides a variety of applications.
- Auto automatic gain control to stabilize the coverage and minimize the noises.
- Auto shut off function as final step to avoid severe interference with mobile network.

2. Specifications

Electrical specification		Uplink	Downlink
Band1	WCDMA	1920 ~ 1980 MHz	2110 ~ 2170 MHz
Band3	DCS	1710 ~ 1785 MHz	1805 ~ 1880 MHz
Band7	LTE2600	2500 ~ 2570 MHz	2620 ~ 2690 MHz
Band8	EGSM	880~915MHz	925~960MHz
Band20	LTE800	832 ~ 862 MHz	791 ~ 821 MHz
Max. Gain		65dB ± 3dB	70dB ± 3dB
Max. Output power		17dBm ± 2.0dBm	23dBm ± 2.0dBm
Band width (-3dB)		Wide Band	
MGC (Step Attenuation)		≧ 25dB / 1dB step	
Automatic Level Control		≧ 15dB auto shut off after 15dB	
Spurious Emission	9KHz~1GHz	≧ -36dBm @ 3KHz	
	1GHz~12.75GHz	≧ -30dBm @ 3KHz	
Noise Figure		≧ 5dB	
VSWR		≧ 2.0	
Group Delay		≧ 1.5μs	
Input Voltage Range		DC:9V ~12V(DC-025/2.1-5.5mm)	
Power Consumption		≧ 2.0	
Operation Temperature		-25℃ ~ +60℃	
Dimension		203*250*53	
Machine Weight		≧ 3KG	
LED Alarm		Standard	
LED Alarm	ISO	ALC 10dB Red	
	ALARM	ALC ≧ 20dB,Red, then shut off automatically)	

3. Machine Drawing



Fig2-1 Machine Drawing



Fig2-2 LCD Drawing

4. Connector Interface Definition

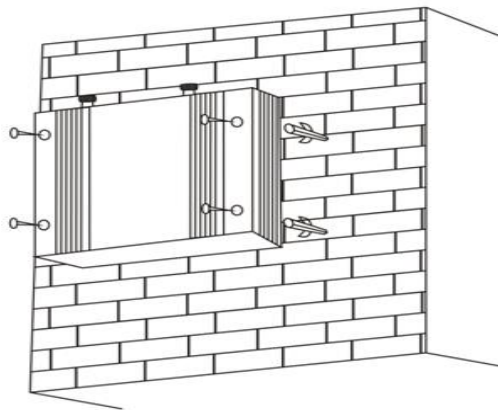


Fig4-1 For repeaters with metal closet

① Connector Interface

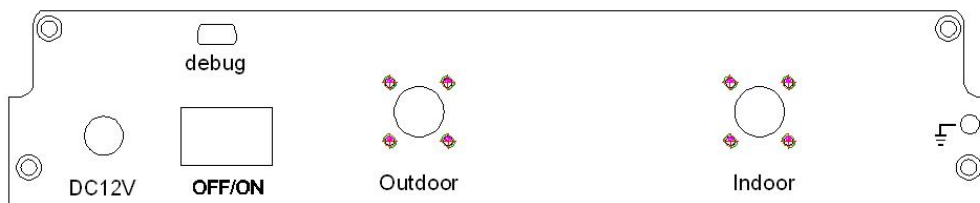


Fig4-2 Connector Interface

(1) RF Interface: N/F.

NO.	Items	Description	Remark
1	Indoor	Connected with the service antenna	N/F
2	Outdoor	Connected with donor antenna	N/F

(3) DC Interface: DC-025

(4) Chassis' ground Interface: M6 stud (GND).