

# Three 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
Band8/Band20	GSM/LTE800	880~915MHz 832~862MHz	925~960MHz 791~821MHz
Band3	DCS1800	1710 ~ 1785MHz	1808 ~ 1880MHz
Band1/Band7	LTE2100/LTE2600	1920 ~ 1980MHz 2500 ~ 2570MHz	2110 ~ 21700MHz 2620 ~ 2690MHz
Max. Gain		60dB ± 3dB	63dB ± 3dB
Max. Output power		17dBm ± 2.0dBm	17dBm ± 2.0dBm
Band width		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		≧ 7dB	
VSWR		≧ 2.0	
IMD		-36dBc	
Group Delay		≧ 1.0μs	
Power Consumption		≧ 10W	
Input Voltage Range		DC:9V ~12V(DC-025/2.1-5.5mm)	
Operation Temperature		-25°C ~ +60°C	
Dimension		220*170*34	
Machine Weight		≧ 1KG	
<b>LED Alarm</b>		<b>Standard</b>	
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

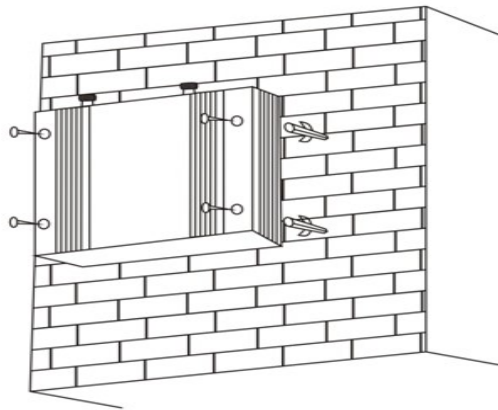


Fig4-1 For repeaters with metal closet

##### 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).