



# FSP-GSM-R-1W

## Medium Power Solid State Repeater 900 MHz

### Typical Applications

The FSP-GSM-R-1W is ideal for:

- Providing mobile service in shadow Regions



### Features

- Die-casting Waterproof cabinet suitable in outdoor and indoor
- Pole-installation, Wall-installation and Tower-installation are available
- Cavity filter and IF SAW gives higher isolation, better gain flatness, higher stability, and lower noise figure;
- Allowing for continuous gain adjustment and gain contrast;

### Description

Booster is used in order to provide a mobile service to subscribers in shadow region, and operates well in all sorts of mobile networks. RF signal received from the BTS is amplified by low noise amplifier at the first stage, filtered by BPF, amplified by high power amp at last stage, and retransmitted to the subscribers; RF signal received from mobile phone also.

Table 1. Specifications

Main Item	Specification(on user requirement)	
	Uplink	Downlink
GSM or DCS or WCDMA	824-849Mhz Or 890-915Mhz Or 1710-1785Mhz Or 1850-1910Mhz Or 1920-1980Mhz Or customized	869-894Mhz Or 935-960Mhz Or 1805-1880Mhz Or 1930-1990Mhz Or 2110-2170Mhz Or customized
Maximum Gain	85dB	90dB
ALC	Output increment will not exceed 2dB when input increase 10dB	
Frequency Error	±0.5ppm	
Gain Control Range	0~30dB	
RF Output Power	30dBm	
Noise Figure	5dB	
Group Delay	1.5us	
In band Flatness	3dB	
Intermodulation attenuation	In band	-45dBc/30KHz
	Out band (Off 2.5MHz)	-36dBm/30KHz@9KHz-1GHz -30dBm/30KHz@1GHz-12.75GHz
Out band Rejection	Broadband	-40dB@±2.5MHz -60dB@±10MHz
Spurious emission	-36dBm/30KHz@9KHz-1GHz -30dBm/30KHz@1GHz-12.75GHz	
VSWR	1.5	
Power Supply	110V AC or 220V AC or other	
Size	380mmx310mmx160mm (1 watt)	
Weight	10kg for 2watt	
Work temperature	-40°C~+55°C or -25°C~+65°C	
Relative humidity	95%	
Operation Configuration	Manual 5-digit Toggle Switch 10 digital LED display for output power Or LCD Display, Manual Key-press, PC RS232 Port Remote control: Remote Modem (Optional)	
Others	Refer to user manual for more specification	

