

#### Description

The MR PowerMAX GSM 900 XT+ mobile repeater kit is an ideal solution for providing a cost effective improvement in cellular in-building coverage of a home, office, restaurant or buildings up to 5000 sq meters.

The MRPowerMAX GSM 900 XT+ works on the 900MHz frequency which is by far the most common for UK and European voice networks. It is designed to improve the call or data transmission quality of an area by receiving, amplifying and re-transmitting signals of the base station mast into a specified area up to 5000 sq meters.



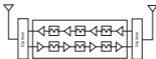
#### Key Features

- ✓ GSM 900 Networks
- ✓ 70 dB gain
- ✓ Coverage up to 5,000 sq m
- ✓ Supports up to 200 users
- ✓ High gain signal antenna
- ✓ All GSM 900 Networks (UK Vodafone/O2)

#### Working Principle



#### System Diagram



#### Package includes

- 1 x PowerMAX XT+ GSM 900MHz cellular repeater
- 1 x External aerial antenna
- 1 x Indoor rubber whip re-broadcast aerial
- 1 x 10 meter coax cable for external aerial
- 1 x AC/DC power supply
- 1 x Installation manual

#### Electrical Specifications

Item	Uplink	Downlink
Frequency (GSM900)	890-915MHz	935-960MHz
Maximum Gain	≥ 65dB	≥ 70dB
Ripple in Band		≤ 1dB
Max. Input Power without damage	-50 dBm	-80 dBm
Output Power	≥ 27 dBm	
Spurious Emission (9KHz-1GHz)	≤ -36dBm	≤ -36dBm
Spurious Emission (1GHz-12.75GHz)	≤ -30dBm	≤ -30dBm
Noise Figure @ Max. Gain	≤ 6dB (Typical)	
Return Loss	≤ 3dB	
Time Delay	≤ 0.5µs	
MTBF	> 50000hours	
Power Supply	DC 12V 2A	
Power Consumption	< 10 Watt	
Impedence	50 ohm	

#### Mechanical Specifications

RF Connector	N-Female
Cooling	Heatsink convection cooling
Dimensions (DxWxH)	194 x 234 x 30 mm
Weight	1620 Gram
Environment Conditions	IP 40
Humidity	< 90%
Operating Temperature	-10C - 60C