

MRE048

MR PowerMAX 3G 2100

Description

The MR PowerMAX 3G 2100 mobile repeater kit is an ideal solution for providing a cost effective improvement for in-building coverage of a home, office, restaurant or buildings up to 1000 sq meters.

The MRPowerMAX 3G 2100 works on the 2100MHz frequency used for high-speed 3G data 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 1000 sq meters for up to 75 users.

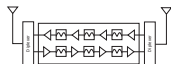
Key Features

- ✓ High Speed 3G Networks
- ✓ 65 dB gain
- ✓ Coverage up to 1,000 sq m
- ✓ Supports up to 75 users
- ✓ High gain signal antenna
- ✓ Works 3G 2100MHz networks

Working Principle



System Diagram



Package includes

- 1 x PowerMAX 3G 2100MHz 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)	1920-1990MHz	2110-2180MHz
Maximum Gain	≥ 60dB	≥ 65dB
Ripple in Band	≥ 5dB	
Max. Input Power without damage	- 50 dBm	- 80 dBm
Output Power	≥ 21 dBm	
Spurious Emission (90Hz-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	
Impedance	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