

## MRE057

### PowerMAX GSM 1800 XT+

#### Description

The MR PowerMAX 1800 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.

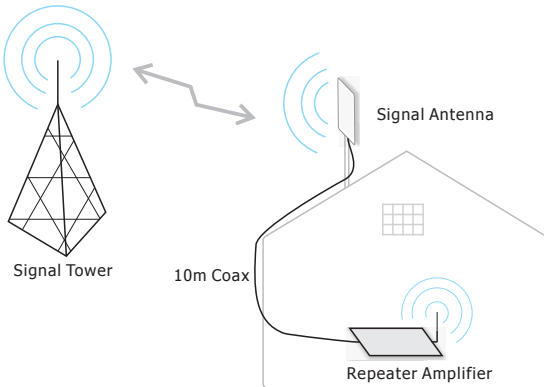
The MRPowerMAX 1800 XT+ works on the 1800MHz frequency which is common for Orange and T-Mobile in the UK. It is designed to improve the call or data transmission quality of an area by receiving, amplifying and re-transmitting signals of the base station mast into a specified area up to 5000 sq meters and up to 200 users.



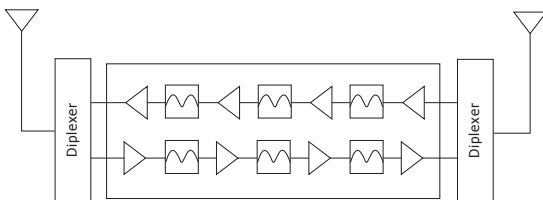
#### Key Features

- ✓ GSM 1800MHz Networks
- ✓ 70 dB gain
- ✓ Coverage up to 5,000 sq m
- ✓ Supports up to 200 users
- ✓ High gain signal antenna
- ✓ All GSM 1800 networks (Orange/T-mobile)

#### Working Principle



#### System Diagram



#### Package includes

- 1 x PowerMAX 1800 XT+ 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)	1710-1785MHz	1805-1880MHz
Maximum Gain	≅ 65dB	≅ 70dB
Ripple in Band	≅ 5dB	
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

