

MRE049

PowerMAX 900/1800 XT

Description

The MR PowerMAX 900/1800 XT Mobile Repeater kit is a high powered kit which boost signal strength and coverage for all GSM voice networks for any UK or European services.

The PowerMAX 900/1800 XT is compatible with all GSM 900 and 1800MHz services and guaranteed to provide improved coverage for your mobile phone signal over an area up to 2500 sq m. The kit comes complete with everything you need to increase signal strength and stop dropped calls.



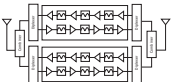
Key Features

- ✓ Dual Band GSM 900/1800
- ✓ 65 dB gain
- ✓ Coverage up to 2,000 sq m
- ✓ Supports up to 100 users
- ✓ High gain signal antenna
- ✓ Works with ALL GSM voice networks

Working Principle



System Diagram



Package includes

- 1 x PowerMAX XT GSM 900/1800MHzrepeater
- 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 |
| Frequency (GSM1800) | 1710-1785MHz | 1805-1880MHz |
| Maximum Gain | ≈ 60dB | ≈ 65dB |
| Ripple in Band | | ≈ 5dB |
| Max. Input Power without damage | -50 dBm | -80 dBm |
| Output Power | ≈ 23 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 | | > 5000hours |
| 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 |