

# LMR/PMR 400MHz High Selectivity Mini Repeater

Model No: MR-400-20W70

---



## Features:

- 20dBm composite output power
- Tunable bandwidth option
- Fully comply with APCO25 Analog standards and emission mask.
- Light weight, compact size and high performance
- Provide quickest solution for indoor signal weak or dead- zones
- Intelligent design, with built-in ALC function
- Coverage area of 1000-3000m<sup>2</sup>
- IF saw filter to for excellent out-of-band rejection.

## Introduction

The EMTS Mini-Repeater provides an excellent solution to the problem of poor signal coverage. The Mini-Repeater amplifies the signals from mobile phones and base stations and can be used in 'dead zones' where service is poor. Typical installations can be in basements, offices, restaurants, hotels, apartments, parking lot etc., where originally blocked by structures and obstacles or coverage is limited. The Mini-Repeater is also improving the capacity of the APCO-25 cells. The Mini-Repeater is connected to an outdoor 'donor' antenna using a coaxial cable. The donor antenna transmits signals from mobile phones and receives signals from the BTS. Service antennas are replaced in 'dead zones'. Signals from APCO-25 handset used in the dead zones are then received by the service antenna and transmitted to Mini-Repeater donor antenna, which in turn transmits the signal to the base station. Easy installation, lightweight design, and easy using makes the EMTS Mini-Repeater a cost-effective and practical solution for extending signal coverage.

---



**EMTS Telecom Services** offers a comprehensive portfolio of enhanced coverage solutions for the Wireless Networks. Based on advanced technologies. **EMTS** proven, indoor and outdoor solutions solve a wide range of network challenges including interference and oscillation problems, challenging coverage holes, rapid response deployment and inadequate in-building coverage. Regardless of the technology or frequency, **EMTS** can provide customized coverage solutions that address any combination of unique and complex network needs for the Wireless Networks.

## Technical Specifications

Electrical Performance	Uplink	Downlink
Frequency Range –  Any partial bandwidth at the LMR 400 MHz band – please specify uplink and downlink bands	380-512 MHz	380-512 MHz
Operator bandwidth	5MHz	
Duplex distance	10MHz	
Impedance	50 Ω	
Output power/carrier	+18dBm	
Gain	50-70dB in 1dB steps	
External connection		
Local Maintenance Terminal	RS232	
RF Ports	N-Type Female	
External alarms	Plinth	
External alarms	4 external alarm inputs	
Repeater status relay	1 Relay normally open (NO)	
Remote connection and alarm supervision (optional)	GSM, PSTN modem or Ethernet	
Power consumption	<20W	
Enclosure	Aluminum (IP51)	
cooling	Convection	
Environmental Specifications		
Operating Temperature	-10 to + 50°C	
Storage	- 30 to + 80°C	
MTBF	> 100,000 hours	

### Ordering information:

Model No: EMTS-MR-400-18W70-X-Y

X= Uplink band , Y=Downlink band

TB for Tunable bandwidth

### **About EMTS Telecom Services Ltd.:**

EMTS is a leading supplier of high-quality RF coverage solutions designed to maximize wireless network coverage in difficult RF environments and complex settings. The company specializes in extending RF radio coverage to rural areas, office buildings, subways, tunnels and shadowed areas. The EMTS coverage solution supports all major mobile technologies and standards of wireless Networks.

All rights reserved

**Note: All specifications subject to change without notice.**

