

LTE 700MHz (Band 28) 37dBm Band/Channel Selective High-Power Repeater Model No: MR-7-37W100



Features:

- 37dBm downlink composite power
- Comply to LTE Standards TS 136 143 - V14.0.0 and ETSI TS 151 026
- Alarm monitoring via remote or local connectivity
- Advanced smart function preventing UL interference and self-oscillation
- Linear power amplification to effectively suppress inter-modulation and spurious emission with a very low power consumption
- Smart Automatic Level Control (ALC) ensures stable and continuously adjustable output level
- Utilizes advance DSP technology for channel selection 5,10,15,20 MHz (optional)
- Simple installation with external AC/DC power supply

Introduction

The EMTS Telecom Services Ltd. single-band LTE-FDD 700MHz Band Selective High-Power Repeater (HPR) provides an affordable solution to solve the indoor signal coverage problems in the LTE 700MHz systems due to signal fading and attenuation caused by architecture obstacles. Its easy installation and maintenance can help carrier get fast return on investment. The HPR is working as a relay between the BTS and mobiles. It picks up the strongest signal from BTS via the Donor Antenna, linearly amplifies the signal and then retransmits it via the Indoor Signal Distribution System to the weak/blind coverage area and the mobile signal is also amplified and retransmitted to the BTS via the opposite direction. The band-selective function can choose to amplify the signal within the customized band. The installation of the repeater is easy, simply just plug and play. Using the monitoring software or with local connectivity, the repeater status can be known during installation, helping a perfect working status while the repeaters can be remotely monitor, control and gets alarms.



Technical Specifications:

	Uplink	Downlink
Electrical Specification		
Frequency	710.5-720.5 MHz	765.5-775.5 MHz
Passband Gain	95 dB +/-3dB	95 dB +/-3dB
Bandwidth (Two options)	Fixed bandwidth (Factory set) (optional) selectable bandwidth using advance digital technical Set by GUI 5,10,15,20 MHz	
Passband Ripple	± 1.5dB	
Gain Attenuation Range (AGC)	0 - 25 dB in 1 dB steps	
Manual Gain Control	0-30 dB in 1dB step	
Composite Output Power	+ 37 dBm	+ 30 dBm
Noise Figure @ Maximum Gain	5 dB	
Propagation Delay	6 µsec	6 µsec
Superius Emission & Intermodulation	Comply of LTE Standards TS 136 143 - V14.0.0 and ETSI TS 151 026	
Impedance Level	50 ohms	
Power Supply	24v dc via external AC to DC convertor	
VSWR	1.8:1	
RF Connector	N-Type	
Environmental specification		
Operating Temperature	-10 to 55° C	
IP Rating / water resistance	IP65	
MTBF	100,000 Hours	
Mechanical specification		
Dimensions	428 x 328 x 175mm	
Weight	25 Kg	
Installation	Fits to Wall Mounting, Tower Mounting, Pole Mounting and Rack	
Monitoring specification		
Alarm and Power LED	1. Power On/Off / Major alarm LED 2. Isolation is lower than the isolation for equipment installation 3. ALC	
Remote monitoring and Control	Via WCDAM / LTE modem using NMS software	

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, All rights reserved - Specifications are subject to change without notice

