

20dBm LTE/UMTS Dual-Band 900-2100MHz Mini Repeater

Model No: DMR-921-20W80



Features:

- Supports LTE technology with 20dBm composite power per band
- Comply with ETSI & 3GPP standards (TS 25.106, TS 36.106, TS 38.104)
- Software-defined digital filter with up to 3 adjustable blocks in each band
- Linear power amplification effectively suppresses inter-modulation and spurious emission
- Auto-isolation check between service and donor antennas
- Smart mode to auto-adjust gain according to the isolation and signal level received by the donor site
- Simple installation with external AC/DC adapter
- User-friendly Repeater GUI (optional 4G modem for NMS application)

Introduction

The EMTS Telecom Services Dual-Band LTE Digital Mini Repeaters (DMR) provides an excellent solution to the problem of poor signal coverage and is used for coverage extension and in-building applications. The DMR is designed to support signal coverage for three bands: 900MHz and 2100MHz, with up to 2000 sqm covered area. The mini repeater uses an intelligent algorithm to minimize possible uplink interference. It supports multi-operator installations utilizing an advanced digital software-defined filter. The EMTS Digital Mini Repeater isolation detection function allows users to set a suitable distance between donor and service antennas. The easy-to-install feature highlights the DMR as an excellent signal enhancement solution, improving the LTE network's coverage and capacity in dead areas where service is poor or not existing while allowing the operator a fast return on investment.



EMTS Telecom Services Ltd. 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.

Specifications:

Items		Specifications	
System		GSM/UMTS/LTE 900	UMTS/LTE 2100
Working Frequency	Uplink	880~915MHz	1920-1980 MHz
	Downlink	925~960MHz	2110~2170 MHz
Bandwidth (Digital Filter)		3 Sub-Bands 0.2~15MHz Variable	3 Sub-Bands 0.2~30MHz Variable
Output Power	Uplink	17±2dBm	17±2dBm
	Downlink	20±2dBm	20±2dBm
Maximum Gain		80±3dB	
Manual Gain Control Range		0~30dB (the gain of each sub-band can be adjusted separately)	
Automatic Gain Control Range		≥ 20dB	
In-Band Ripple		≤±2dB	
Spurious Emission		9kHz~1GHz: ≤ -36dBm	
		1GHz~12.75GHz: ≤ -30dBm	
Noise Figure (Typical)		≤ 6.5dB	
Group Signal Delay		≤ 6μs	
VSWR		≤ 2.4	
Impedance at RF connector		50Ω	
RF Connector		N-Female	
Power Supply (External)		100 - 240VAC	
Dimensions		280*265*80mm	
Weight		≤ 7kg	
Alarm Monitoring System		Alarm for Uplink Self-Oscillation	
Isolation Detection		Isolation Check During Boot Time	
LED Indicator		Power Supply, Alarm, State	
Operating Temperature		-20 to +50 °C	
Application		Indoor (IP30)	
Mounting		Wall Mounting	
Local Control		Via USB Interface or WIFI	
NMS Mode (optional)		Via 4G Wireless Modem (Support SMS and Cloud Network Management System)	
Conformance Standard		Safety: EN 60950 EMC: ETSI 301 489-50, ETSI 301 489-1 Radio: ETSI 301 908-11, ETSI 301 908-15	

About EMTS Telecom Services Ltd.:

EMTS Telecom Services 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.

