

21dBm Dual Band Mini Repeater 900 - 2100MHz Model No: MR-9-21-21W70



Features:

- Supports, GSM , WCDMA, LTE with 21 dBm composite power
- Fully comply with ETSI & 3GPP standards
- Band selective (factory set) or adjustable bandwidth configurations
- User friendly front Repeater GUI
- Antenna isolation testing
- Low power consumption with sleeping mode to minimize possible uplink interference
- Smart Automatic Level Control (ALC) ensures output level stable and adjustable continuously
- Intelligent mode to prevent oscillation

Introduction

The EMTS Telecom Services Ltd. Dual Band Mini Repeaters (MR) provides an excellent solution to the problem of poor signal coverage and used for coverage extension and for in building applications. The MR designed to support signal coverage for dual band 900 and 2100MHz with up to 2000 sqm covered area. The MR has the intelligent algorithm to minimize possible uplink interference, the silent mode to disable the UL PA in the repeater when no subscribers traffic. The isolation detection function allows user to have ideas whether the distance between donor and service antenna is enough. The easy-to-install feature highlights the MR as a great solution for signal enhancement, improving coverage and capacity of the cellular network at dead areas where service is poor .

Ordering information:

Adjustable Bandwidth use model No:	MR-9-21-21W70-X-T	X=A or B (GSM or EGSM)
Fox Fixed Bandwidth use model No:	MR-9-21-21W70-X-Y-Z	X=A or B (GSM or EGSM) Y=GSM Bandwidth Z=UMTS Bandwidth



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:

Electrical specifications			
		Uplink	Downlink
Frequency	GSM 900 MHz	Type A: 890 – 915 MHz Type B: 880 - 915 MHz	Type A 935 – 960 MHz Type B: 925 – 960 MHz
	WCDMA	1920 – 1980 MHz	2110- 2170 MHz
Bandwidth		Adjustable bandwidth GSM from 0.8 to 25 MHz UMTS from one to four WCDMA channels or Fixed Bandwidth Types (factory set)	
Gain		70 dB±3dB	70 dB±3dB
Output Power		21 dBm±2dB	21 dBm±2dB
Manual gain Control		25dB in step of 1dB	
Auto Gain Control(AGC)		≥25dB	
Maximum input power(non-destructive)		0dBm(CW Signal)	
In-band Intermodulation		Complies with ETSI	
Out of working band ($\Delta f > 2.5\text{MHz}$)	9kHz~1GHz:		≤ -36dBm/30kHz
	1GHz~12.75GHz		≤-30dBm/30kHz
Conformance Standard		ETSI EN 300 609-4, GSM11.26, 3GPP TS 25.106	
Noise Figure		≤ 6dB	
VSWR		2:1	
Group Delay		≤ 5μs	
Power Consumption		50 W	
Power Supply		DC 9V/8A	
Mechanical Specifications			
Dimensions		300*296*76mm	
Weight		≤7.5Kg	
Impedance		(Nominal)50Ω	
I/O Connector		N-female	
Environmental specifications			
IP Rating		IP30	
Operating Temperature		-20°C ~50°C	
Monitoring specifications			
LED indication	Power LED	DC ON/OFF	
	Alarm LED	ALC1~5dB,red Or Antenna isolation is lower than the isolation for equipment installation, the repeater will adjust the gain automatically without necessities of position adjusting for antennas.	

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.

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