

Mini Repeater

21dBm Dual Band

1800 – 2100 MHz

Model No: MR-18-21-21W70



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 DCS1800 and UMTS 2100 MHz 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-18-21-21W70-T	
Fox Fixed Bandwidth use model No:	MR-18-21-21W70-X-Y-Z	Y = 1800 MHz Bandwidth Z = 2100 MHz 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	WCDMA 2100 MHz	1920 - 1980 MHz	2110 - 2170 MHz
	DCS 1800 MHz	1710 - 1785 MHz	1805 - 1880 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	73 dB±3dB		73 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	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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