

# TriBand 24dBm Mini Repeater 900-1800-2100MHz Model No: MR-91821-24W70

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## Features:

- Supports, GSM , WCDMA & LTE with 24 dBm composite power.
- Support full or partial bandwidth .
- Fully comply with ETSI & 3GPP standards.
- 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 Tri 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 three bands 900, 1800 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 .



**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		GSM900&DCS1800	WCDMA2100
Frequency Range (Customized)	Uplink	880-915 MHz&1710-1785 MHz	1920-1980 MHz
	Downlink	925-960 MHz&1805-1880 MHz	2110-2170 MHz
Working Bandwidth(SAW Filter for DL)		One sebbandat each band set between from 1 MHz up to 35 MHz	
Gain		70±3dB	70±3dB
Maximum Output Power		24dBm	24dBm
AGC Control Range		≥20dB	
In-Band Ripple		±2 dB	±1.5 dB @ 3.84MHz
VSWR		≤2:1	
Group Delay Time		≤ 5μs	
I/O Impedance		50 Ω	
Noise Figure		≤6dB	
Spurious Emission		9kHz~1GHz: ≤ -36dBm	
		1GHz~12.75GHz:≤-30dBm	
Error Vector Magnitude (EVM)		--	≤ 12.5%
Peak Code Domain Error (PCDE)		--	≤ -35dBm
Third-order Inter-Modulation		≤ -40dBc	--
RF Connector		N-Type (Female)	
Power Consumption		≤ 75 W	
External Power Supply		Input:AC100 to 240V,Output:DC9V/10A	
Dimensions		318 x 265 x 115mm	
Weight		≤ 12 kg	
Alarm Monitoring System		Alarm for uplink self-oscillation	
Indication LED		Power supply, Alarm, state	
Operating Temperature		-10 ~ +50 °C	
Application		Indoor(IP30)	
Humidity		≤95%	
Remote Control Module		Wireless Modem (GSM)	
Control Connector		USB port for local / remote	
NMS Monitoring Function		Power supply, output power, gain, Uplink/downlink ATT etc	

### 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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