

# 30dBm Tri-Band Tunable Repeater 900-1800-2100MHz Model No: DR-9-18-21-30W80

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## Features:

- Supports, GSM , WCDMA & LTE standards
- Support full or partial bandwidth by signal processing
- User friendly GUI enabling to set any frequency combination
- Isolation detection function
- Low power consumption
- Linear power amplification to effectively suppress inter-modulation and spurious emission
- Smart Automatic Level Control (ALC) ensures output level stable and adjustable continuously
- Intelligent mode
- Support OMT/OMS (optional) remote control

## Introduction

The EMTS Telecom Services Ltd. Tri Band tunable Repeaters (DR) provides an excellent solution to the problem of poor signal coverage for coverage extension and for in building & outdoor applications. The DR designed to support signal coverage for three bands 900, 1800 and 2100MHz. The digital repeater amplifies the signals from mobile phones and base stations and can be used in dead areas where service is poor. The DR is also improving the capacity of the cellular network and the data coverage at areas with limited signal strengths. The repeater is connected to an outdoor donor antenna using a coaxial cable. The donor antenna transmits signals from mobile phones and receives signals from the BTS service antennas are placed in dead zones or at the tower for outdoor applications. Signals from mobile phones used in the dead zones are then received by the service antenna and transmitted to the DR donor antenna, which in turn transmits the signals to the base station.

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**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.



Electrical Specifications		Uplink	Downlink
Frequency	GSM&DCS	880 – 915 MHz 1710 – 1785 MHz	925 - 960MHz 1805 – 1880 MHz
	WCDMA	1920-1980MHz	2110-2170MHz
Maximum Gain		80±3dB	80dB±3dB
Gain Flatness		± 1.5 dB for any 3.84 MHz	
Output Power		GSM 23dBm±2dB DCS 23dBm±2dB	GSM 30 dBm±2dB DCS 30 dBm±2dB
		WCDMA 23dBm±2dB	WCDMA 30dBm±2dB
Intermodulation Products	9KHz~1GHz	≧ -40dBc	
	1GHz~12.75GHz	≧ -40dBc	
Spurious Emission	9KHz~1GHz	≦ -36dBm	
	1GHz~12.75GHz	≦ -30dBm	
Manual Gain Control		31dB in step of 1dB	
Automatic Gain Control		≧25dB	
Max. Input Power Without Damage		≧0dBm	
Noise Figure		≦ 8dB	
VSWR		≦2.0	
Group Delay		≦ 1μs	
Power Consumption		≦80W	
Power Supply		AC 110-240V/50HZ / DC9V/10A	
Mechanical Specifications			
Dimensions		440*500*235mm	
Weight		30kg	
I/O Connector/ Impedance		N-female / (Nominal)50Ω	
Environmental Specifications			
IP Rating		IP65	
Operating Temperature		-20°C-50°C	

**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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