

Band 8 900MHz High-Quality 30dBm Digital Power Repeater

Model No: DPR-9-30W85



Features

- Supports GSM, EGSM, LTE &- WCDMA with advanced digital filtering.
- Comply with LTE standard 3GPP TS 36.143 version 14.0.0 Release 14.
- Very low uplink noise – an excellent solution to extend BTS coverage range for In-Building deployments for single or multi-operator uses.
- Compact Size with High Performance, 30dBm composite power.
- Provide the quickest solution for indoor signal weak or block zones
- Intelligent design, with built-in ALC function
- Coverage area up to 7000m²
- Good out-of-band rejection
- Remote monitoring and Alarming via LTE modem

Introduction

The EMTS Telecom Ltd. Digital Power-Repeaters provides an excellent solution to the problem of poor signal coverage. The Repeaters amplify the signals from mobile phones and base stations and can be used in dead areas where service is poor. Due to its digital technology, the repeater can be used for single or multi-operator uses; Typical installations might be in basements, offices, restaurants, hotels, apartments, parking lots, etc., where originally blocked by structures and obstacles or coverage is limited. The Power-Repeaters are also improving the capacity of the cellular cells for 3rd generation by improvement of data coverage in areas with limited signal strengths. USING A COAXIAL CABLE, the EMTS Power-Repeater is connected to an outdoor 'donor' antenna. The donor antenna transmits signals from mobile phones and receives signals from the BTS. Service antennas are placed in dead zones. Signals from mobile phones used in the dead zones are then received by the service antenna and transmitted to the Power-Repeater donor antenna, which transmits the signals to the base station. Easy installation, lightweight design, and easy use make our Signal Booster a cost-effective and practical solution for extending signal coverage.



EMTS Telecom Services Ltd. offers a comprehensive portfolio of enhanced coverage solutions for Wireless Networks, Based on advanced technologies. **EMTS-proven** indoor and outdoor solutions solve various 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 Wireless Networks.

Electrical Specification

Items		Uplink	Downlink
Frequency Band		880 - 915 MHz	925 -960 MHz
Digital band selective		4 digital filters (sub-bands), each band 0.2 to 20MHz	
Gain		85 ± 2dB	85± 2dB
Manual Gain Control		31dB in the step of 1dB	
Automatic Gain Control		>20dB	
Ripple in Band		± 2.5 dB typ. For full band	
Max. Input Power Without Damage		-10 dBm	
Composite Output Power		24 dBm	30 dBm
Intermodulation Products	9KHz~1GHz	≤ -36 dBm	≤ -36 dBm
	1GHz~12.75GHz	≤ -30 dBm	≤ -30 dBm
Spurious Emission	9KHz~1GHz	≤ -36 dBm	≤ -36 dBm
	1GHz~12.75GHz	≤ -30 dBm	≤ -30 dBm
Frequency Stability		≤0.05 ppm	
Noise Figure @ max. gain		≤5 dB	
VSWR		1.5:1	
Time Delay		8μs maximum	
Power Supply		220 v ac / 100 Watt	
Local Control / Local Alarm		Local control via USB port, Local alarm via LED – AC Power, Low RF Input, General Alarm	
NMS Remote Monitoring Function		Real-time alarm for door status, temperature, power supply, VSWR, turn on/off, increasing/decreasing output power, real-time status, and all repeater status.	

Mechanical Specification

RF Connector	N-Female
Switch	Power Switch Manual Gain Control Switch
Dimensions (D x W xH)	351 X 460 X146mm
Weight	17kg
Environment Conditions	IP65
Humidity	< 95%
Operating Temperature	-20 – 50 ° C

About EMTS Telecom Services Ltd.:

EMTS telecom Services Ltd. 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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