

Single-Band 43dBm 2100MHz Digital High-Power Repeater

Model No: DHPR-21-43W95



Features:

- Advance Digital Filtering Technology with up to 5 digital filters (in both uplink/downlink)
- Single-Band single or multi-operator deployments with software-defined filter
- Supports WCDMA, LTE and 5G.
- Fully comply with ETSI & 3GPP standards with 43dBm composite power per band
- User-friendly GUI, Antenna isolation testing (optional: ICS mechanism)
- Linear power amplification to effectively suppress inter-modulation and spurious emission; minimize uplink interference resulting in low EVM.
- Intelligent mode to detect oscillation.
- Local setting via USB or Wi-Fi using EMTS mobile application.
- Remote control and alarm via 4G modem and EMTS NMS
- IP65 protection; high resistance to dust, water, and corrosion

Introduction

The EMTS Telecom 2100MHz Digital High-Power Repeaters (DHPR) provides an excellent solution to the problem of poor signal coverage for coverage extension and outdoor or in-building applications. The DHPR utilizes Digital technology to support multi-operator applications; Easy installation, lightweight design, and friendly GUI make the EMTS DHPR a cost-effective and practical solution for extending signal coverage. The EMTS, High Power Repeater series, supports all frequencies, including WCDMA & LTE & 5G, selected by a digital mechanism.



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.

Technical Specifications:

Electrical specifications		
Type	UMTS / 4G_2100 / 5G_2100	
	Uplink	downlink
Frequency Range	1920 to 1980MHz	2110 to 2170MHz
Bandwidth (Digital Filter)	5 Sub-Bands, 0.2-20MHz Tune Bandwidth per Sub-Band	
Output Power	30±2dBm	43±2dBm
Maximum Gain	95±3dB	95±3dB
AGC	≥20dB	
In-Band Ripple	≤±2dB	
VSWR	≤1.5	
Spurious Emission	9KHz~1GHz: ≤ -36dBm	
	1GHz~12.75GHz: ≤ -30dBm	
EVM	3.5% typ	
Noise Figure	≤5dB	
System Delay	≤6μs	
I/O Impedance	50Ω	
Mechanical and environmental specifications		
RF Connector	2X4.3-10 Female	
Power Supply	Input: AC220V, 50/60Hz - 185watts	
Size	447*357*171mm	
Weight	≤17kg	
Operating Temperature	-25 ~ +55 °C	
Application	Indoor or Outdoor (IP65)	
Relative Humidity Range	≤95% (non-Condensing)	
Cooling	Heat Sink	
Mounting	Wall or Pole Mounting	
MTBF	100.000 hours	

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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Monitoring Capabilities	
LED Indicator	Power Supply, Running, Alarm
Local Control	USB Interface and Wi-Fi Hotspot
Remote Mode	Support SMS and Cloud Network Management System via 4G Wireless Modem
NMS Function	Real-time Alarm for Door Status, Temperature, Power Supply, VSWR Remote Control Turn On/Off, Increasing/Decreasing Output Power Real-time Status for Output/Input Power, UL/DL Gain, All Status of Repeater.
Compliance Standards	
Standard	Fully comply with ETSI Standards: Safety : EN 60950 EMC : ETSI 301 489-50, ETSI 301 489-1, Radio : ETSI 301 908-11, ETSI 301 908-15 5G : ETSI TS 138 106
3GPP Standards	TS 25.106, TS 36,106, TS 138.106



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