

20dBm Digital Mini Repeater Dual-Band 1800-2100MHz

Model No: DMR-1821-20W85



Features:

- Advanced Digital Filtering Technology with up to 30MHz tuning range per band
- Dual-Band with Software-defined filter supporting spectrum reframing
- Very low NF with an excellent EVM reduces the uplink noise to Base-Station
- IMOP Support (Isolation Measurement and Oscillation Protection)
- Supports WCDMA & LTE (optional: 5G) in the same repeater
- Fully comply with ETSI & 3GPP standards with 20dBm composite power
- Linear power amplification to effectively suppress inter-modulation and spurious emission minimize possible uplink interference
- User-friendly GUI for the local setting via mobile app or laptop
- Setting via EMTS mobile application using Wi-Fi connectivity or via USB
- Optional for remote control and alarm via 4G modem using EMTS NMS

Introduction

The EMTS Telecom Services Ltd. dual band 1800/2100MHz Digital Mini Repeaters (DMR) provides an excellent solution to poor signal coverage and is used for coverage extension and in building applications. The DMR is designed to support signal coverage for dual-band 1880/2100MHz with up to 2000 sqm covered area, supporting both LTE and WCDMA technologies. The DMR has an intelligent algorithm to minimize possible uplink interference at the same time, the isolation detection function allows users to be alerted when the distance between donor and service antenna is not enough. The easy-to-install feature highlights the DMR as an excellent solution for signal enhancement, improving coverage and capacity of the LTE/WCDMA and possibly 5G networks sat dead areas where service is poor. The EMTS Digital mini Repeater also enhances the mobile network's capacity and the data coverage in areas with limited signal strengths. It provides an affordable solution for indoor signal coverage problems due to signal fading and attenuation caused by architecture obstacles. It's easy installation and maintenance can help carriers get a fast return on investment. Setting the sub-bands using advanced digital technology is done via EMTS Mobile Apps or direct connection via USB cable. The DMR is based on the latest technology using advanced RF technology and digital modules that reduce power consumption, increase the reliability and the MTBF. The DMR can be connected to EMTS NMS via an LTE modem for remote monitoring and control. The repeater supplied with up to 90dB gain with an advanced IMOP algorithm to prevent self-oscillation.



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.

Technical Specifications:

System		LTE1800	UMTS/LTE2100
Frequency Range	Uplink	1710 to 1785MHz	1920 to 1980MHz
	Downlink	1805 to 1880MHz	2110 to 2170MHz
Bandwidth(Digital Filter)		1 Sub-Band 0.2-30MHz Variable	1 Sub-Band 0.2-30MHz Variable
Maximum Output	Uplink	18±2dBm	18±2dBm
	Downlink	20±2dBm	20±2dBm
Maximum Gain		85±3dB	
AGC Range		≥ 20dB	
MGC Range		0~30dB@ Step of 1dB	
In-Band Ripple(Typical)		≤ ±3dB	
VSWR		≤ 2.0	
Noise Figure		≤ 6dB	
System Delay		≤ 8μs	
EVM		≤ 8%	
Spurious Emission		9kHz~1GHz: ≤ -36dBm 1GHz~12.75GHz: ≤ -30dBm	
I/O Impedance		50 Ω	
RF Connector		2xN- Female	
Power Supply		Input: AC100~ 240V	
Power Consumption		≤ 50W	
Dimensions		318*265*68mm	
Weight		≤7 kg	
Alarm Monitoring System		Alarm for Uplink Self-Oscillation	
Isolation		IMOP Support (Isolation Measurement and Oscillation Protection)	
LED Indicator		Power Supply, Alarm, State	
Operating Temperature		-20 to +50 °C	
Application		Indoor	
Relative Humidity Range		≤95%	
Mounting		Wall Mounting	
Local Control		Via USB Interface or Wi-Fi	
Remote Mode(Optional)		Cloud NMS Via 4G Wireless	

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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