

40dBm Single-Band 2600MHz Digital High-Power Repeater

Model No: DHPR-26-40W90



Features:

- 40dBm downlink composite power complies with the 3GPP ETSI standards
- Supporting LTE and WCDMA using an advanced algorithm
- Up to 4 digital filters 0.2 to 30MHz; support single-operator & multi-operator use and a non-contiguous band
- Comprehensive GUI, extremely easy to use and install
- Compact Size – water proof IP-65 enclosure suitable for outdoor & indoor deployments
- Metal cavity filter technology allows wider receive and transmits separation, better gain flatness, higher stability, and lower noise figure
- Intelligent design with built-in ALC function provides auto amplitude fixing and noise reduction to the BTS.
- Remote Monitoring & Alarm (NMS) via 4G modem

Introduction

The EMTS Telecom Services Band Selective Digital High Power Repeater is an integral part of the LTE network deployment. It extends the coverage by receiving processes and amplifying the RF signal. The single-band LTE 2600MHz Power-Repeater providing an affordable solution to solve the indoor signal coverage problems in LTE 2600MHz systems. Due to signal fading and attenuation caused by architecture obstacles, the signal strength is weak; The EMTS Repeater, its easy installation & maintenance can help carriers get a faster return on investment. The Repeater works as a relay between the BTS and mobiles. It picks up the strongest signal from BTS via the Donor Antenna, linearly amplifies the signal, and then retransmits it via the Indoor Signal Distribution System to the weak/blind coverage area. The mobile signal is also amplified and retransmitted to the BTS in the opposite direction. The band-selective function can choose to amplify the signal within the customized band. The EMTS LTE High Power Repeater is designed explicitly for in-building LTE applications. It supports different LTE channel bandwidths (1.4, 3, 5, 10, 15 & 20MHz) and can meet any future LTE channel allocation need (applicable for tunable band selective type).



EMTS offers a comprehensive portfolio of enhanced coverage solutions for the Wireless Networks. Based on advanced technologies, EMTS's proven, indoor and outdoor solutions solve a wide range of network issues 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 Specification:

Electrical specifications		
	LTE 2600MHz (optional 5G)	
Frequency Range (MHz)	Uplink	Downlink
	2520-2540	2640 to 2660
Max Output Power	27±2 dBm	40±2 dBm
Bandwidth	Up to 4 sub-bands, each 0.2-30 MHz	
Gain	90±3 dB	
Gain Adjustment Range	0~30 dB at step of 1 dB (Adjustable for each sub-band)	
Automatic Level Control	≥25 dB	
Pass Band Ripple	+/- 1 dB ptp	
Frequency Stability	≤ ±0.01 ppm	
Third-order Inter-Modulation	≤ -45 dBc	
Spurious emission	≤-36 dBm/9 kHz-1 GHz	
	≤ -30 dBm/1 GHz-12.75 GHz	
ACRR	P≥31dBm (offset 5MHz): ≥33dB, P≥31dBm (offset 10MHz): ≥33dB	
Error Vector Magnitude (EVM)	≤ 3.5%	
Peak Code Domain Error (PCDE)	≤ -35dB	
Noise Figure	≤ 3.5 dB	
VSWR	≤1.5	
System Delay	≤ 4.5μs	
Maximum Input Power	-10dBm	
Environmental & Mechanical		
Operating Temperature range	-40 °C to + 55 °C	
Humidity	0 %- 95 %	
Ingression Protection Class	IP 65	
MTBF	≥ 100,000 hours	
RF connector	4.3-10 Female x 2 / 50 Ω	
Power Supply	110-240 V AC / 150 Watts	
Dimensions	428 x 328 x 175 mm	
Weight	≤17 kg	

About EMTS Telecom Services Ltd.:

EMTS 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. All rights reserved - Note: All specifications subject to change without notice



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, Rado: 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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