

30dBm High Efficiency Band-7 2600MHz Power Repeater

Model No: PR-26-30W85



Main Features

- Fully comply with LTE standard & LTE system requirements
- Expand LTE signal coverage or fill the signal in the blind area where the signal is weak or unavailable
- Linear power amplification to effectively suppress inter-modulation and spurious emission designed to meet LTE modulation
- High system gain & Smart Automatic Level Control (ALC) ensures stable output level and continuous adjusting
- Remote monitoring via wireless modem
- Efficient thermal characteristics, careful component selection, and robust design result in high system reliability

Introduction

The EMTS Telecom Services Band Selective Power-Repeater (PR) 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 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.

Electrical Specification

	Downlink	Uplink
Frequency	2620 - 2690 MHz	2500 - 2570 MHz
Bandwidth	Fixed bandwidth or Digital Band Selective bandwidth set by GUI1.4,5,10,15,20 MHz	
Passband Gain	85dB	85dB
Passband Ripple	± 1.5dB	± 1.5dB
Gain Attenuation Range	0 - 25 dB (in 1 dB steps)	0 - 25 dB (in 1 dB steps)
Composite Output Power	+ 30 dBm	+ 23 dBm
Noise Figure @ Maximum Gain	5 dB	3.5 dB
Propagation Delay	6 μsec	6 μsec
Frequency setting	1.4, 3, 5,10,15 MHz across the whole band	
Conformance Standard	3GPP TS 36.106 version 9.0.0	
Environmental		
Power Supply	110 to 240 V AC	
Total RF Input Power	+ 10 dBm	
Impedance Level	50 Ohm	
RF Connector	N-type Female	
VSWR	1.5:1	
Operating Temperature	-20 to 55° C	
Storage Temperature	-30 to 80° C	
Weatherproof	IP-65 338*460*108 mm	
Monitoring		
Local monitoring	WEB GUI	
Remote monitoring and Alarm	OMC	
Modem	4G	
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	



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.

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