

1700 MHz AWS High Power Band Selective Repeater Model No: HPR-1700A-37W90



Features:

- 37dBm downlink composite power.
- Meets, LTE and WCDMA standards.
- Fully comply with the ETSI and 3GPP requirements.
- Advanced GUI, very easy to use and install, Adjustable bandwidth.
- High Performance at waterproof enclosure suitable for outdoor and indoor deployments, Advanced MCPA technology guarantee high linearity with low consumption power.
- Metal cavity filter technology, allows wider receive and transmit separation, better gain flatness, higher stability and lower noise figure.
- Intelligent design with built-in ALC function provides auto amplitude fixing.

Introduction

The EMTS Telecom Services Ltd. 1700 MHz AWS Band, 37dBm carrier-grade High Power Repeater (HMR) provide an excellent solution to the problem of poor signal coverage. The HPR is a Single Band Dual Technology High Power Repeater. it maximizes the subscriber's indoor or outdoor wireless experience by eliminating in-building or outdoor dead zones. It is a real cost-effective and intelligent solution to solve the last mile coverage problem, which is advance technology, The frequency of our HPR can be set by the GUI defining bandwidth and Center frequency. the HPR is very cost-effective and practical solution for extending signal coverage. The AFC/ALC intelligently and automatically senses and adapts to its dynamic RF environment, by continuously monitoring the gain and making real-time adjustments. The system will never overdrive the base station or raise the noise floor. ALC/AFC architecture enables to delivery significantly improving network coverage with very low power consumption.



EMTS Telecom Services 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.

Electrical Specification

		Uplink	Downlink
Frequency Range	Type I	1710 - 1755 MHz	2110 - 2155 MHz
	Type II	1710 - 1770 MHz	2110 - 2170 MHz
Bandwidth		Factory set or adjustable bandwidth types	
Maximum Gain		90dB	90dB
Frequency Error		$\leq \pm 0.5\text{ppm}$	
AGC Control Range		20 dB@1dB/Step	
Gain Control Range		0 to 30dB	
RF Output Power		30dBm	37 dBm
Noise Figure		$\leq 5\text{dB}$	
Group Delay	Fixed Bandwidth,	$\leq 5\mu\text{s}$	
	Adjustable Bandwidth,	$\leq 8\mu\text{s}$	
In band Flatness		$\pm 1.5\text{ dB max}$	
Intermodulation attenuation	In-band Intermodulation	Complies with ETSI	
	Out of band (Off 2.5MHz)	$\leq -36\text{dBm}/30\text{KHz}@9\text{KHz}-1\text{GHz}$ $\leq -30\text{dBm}/30\text{KHz}@1\text{GHz}-12.75\text{GHz}$	
Out of band Rejection (Channel Selective)		$\leq -30\text{dBc}/30\text{kHz}@ \pm 200\text{kHz}$	
		$\leq -60\text{dBc}/30\text{kHz}@ \pm 400\text{kHz}$	
Spurious emission		$\leq -36\text{dBm}/30\text{KHz}@9\text{KHz}-1\text{GHz}$	
		$\leq -30\text{dBm}/30\text{KHz}@1\text{GHz}-12.75\text{GHz}$	
VSWR		$\leq 1.5:1$ typical	
Power Supply		110VAC/220VAC	
Power Consumption		≤ 200 watts	
Size		550 x 400 x 230 mm	
Weight		40Kg	
Operating temperature		-20° to $+55^\circ\text{C}$	
Relative humidity		$\leq 95\%$	
Operation Configuration		LCD Display, Manual Key-press, PC USB Port, or wireless modem	
Conformance Standard		ETSI TS 125 143 V13.0.0 (2016) ETSI EN 300 609-4, GSM11.26, 3GPP TS 25.106	

Ordering information:

Model no.: HPR-1700A-37W90-X

X = number of adjustable blocks - can be 1 or 2

For Fixed bandwidth use model HPR-1700-37W90-A-B. A=Downlink center Frequency, B=bandwidth in MHz



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.