

Band Selective CDMA-LTE -WCDMA 450 MHz High Power Repeater

Model No: HPR-450-40W90



Features

- **+40 dBm composite Downlink power with Fixed or Tunable bandwidth, Designed to support CDMA or WCDMA or LTE standards.**
- **Modern amplification technology.**
- **Intelligent design, with built-in ALC function & Oscillation Prevention.**
- **Advanced GUI, Automatic Level Control for tuning free setup**
- **Compact size and High Performance at IP-65 enclosure**
- **SAW IF filter provides high out-of-band rejection.**
- **Automatic Level Control for tuning free setup**
- **Local or Remote management for Configurable and alarms.**
- **Low power consumption & sleeping mode (saving power).**

Introduction

Our 450 MHz Band Selective High Power Repeaters (HPR) provides an excellent solution to the problem of poor signal coverage for coverage extension and for in building & outdoor applications. The HPR amplifies the signals from mobile phones and base stations and can be used in dead areas where service is poor. The HPR is also improving the capacity of the cellular network by improvement of data coverage in areas with limited signal strengths. The HPR is connected to an outdoor donor antenna using a coaxial cable. The donor antenna transmits signals from mobile phones and receives signals from the BTS service antennas are placed in dead zones or in the tower for outdoor applications. Signals from mobile phones used in the dead zones are then received by the service antenna and transmitted to the PR donor antenna , which in turn transmit the signals to the base station.

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		410-470 MHz Please Specify	410-470 MHz Please Specify
Minimum Gain		90 dB	
Composite output power (uplink/downlink)		30 dBm	40 dBm
Gain Control Range		0-30dB	
Out of Band Rejection	± 400 KHz	≥ 25 dBc	
	± 600 KHz	≥ 35 dBc	
	± 1 MHz	≥ 40 dBc	
	± 5 MHz	≥ 50 dBc	
Spurious Emission		In band ≤ 36 dBm 9KHz – 1 GHz ≤ 36 dBm / 100 KHz 1 GHz – 12.75 GHz ≤ 30 dBm / 100 KHz	
	9 KHz~1 GHz	≥ 45dBc	≥ 36dBc
	1 GHz~12.75 GHz	≤ -30 dBm	≤ -30 dBm
Noise Figure		5 dB	
Group Delay		5 μ Sec. Maximum	
Pass Band Ripple		2 dB p-p	
VSWR		1.5:1	
Power Supply		110-264/45-60 Hz VAC	
Power consumption		180 watts	
RF Connector / Impedance		N female / 50 ohm	
Size		Locked aluminum wall mount case 650x400x295 mm	
Weight		47.5 kg	
Enclosure		IP65 Box ready for wall or pall mount installation	
Work temperature		-30 ° C to +55 ° C	
Enclosure cooling		Convection	
Remote Managemnt		Via Wireless modem	
MTB		> 100,000 hours	

Ordering information:

Model no.: PR-450-40W90-X-Y

X=Downlink center Frequency, Y=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.

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