

Band Selective TETRA 800MHz Power Repeater

Model No: PR-800T-33W80



Features

- **+33dBm composite Downlink power with Fixed or Tunable bandwidth, Designed to support iDEN 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 Configurable Gain and operating bandwidth**
- **Low power consumption & sleeping mode (saving power).**

Introduction

Our 800MHz Band Selective Power Repeaters (PR) provides an excellent solution to the problem of poor signal coverage for coverage extension and for in building & outdoor applications. The PR amplifies the signals from mobile phones and base stations and can be used in dead areas where service is poor. The PR is also improving the capacity of the cellular network by improvement of data coverage in areas with limited signal strengths. The PR 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	806-825 MHz	851 – 869 MHz
Band Selection	Any bandwidth (Factory set) or Tunable bandwidth	
Minimum Gain	80dB	
Composite output power (uplink/downlink)	24 dBm	33 dBm
Gain Control Range	0-30dB	
Band Selectivity	@ 600 KHz > 25 dB @ 1MHz > 35 dB	
Spurious	In band ≤ 13 dBm 9KHz – 1 GHz ≤ 36 dBm / 100 KHz 1 GHz – 12.75 GHz ≤ 30 dBm / 100 KHz	
Noise Figure	5 dB	
Group Delay	5 μ Sec. Maximum	
Pass Band Ripple	3.5 dB p-p	
VSWR	1.5:1	
Power Supply	176-264/45-55Hz VAC	
Power consumption	90 watts	
RF Connector / Impedance	N female / 50 ohm	
Size	351 X 460 X146mm	
Weight	17.5 kg	
Enclosure	IP65 Box ready for wall or pall mount installation	
Work temperature	-30 [®] to +55 [®]	
Enclosure cooling	Convection	
MTB	> 100,000 hours	

Ordering Information:

Use Model No for Fixed Bandwidth,: PR-800-33W80-B

Use Model No for tunable Bandwidth: PR-800-33W80-TB

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.

