

TETRA 800 MHz Digital Hybrid Power Repeater Band & Channel selective

Model No: DPR-800T-33W80-CBS



Features

- **Digital Band and Channel selective repeater capabilities**
- **Up to 4 sub bands 0.2 up to 10 MHz & Up to 8 channel selective filters provides high out-of-band rejection.**
- **+33dBm composite Downlink power, designed to support TETRA standard.**
- **Modern amplification technology.**
- **Intelligent design, with built-in ALC function & Oscillation Prevention.**
- **Automatic Level Control for tuning free setup**
- **Local or remote Configurable Gain and operating channel / sub bandwidth**
- **Findlay GUI for local or remote management**
- **Local control via USB or via WIFI connectivity to mobile phone of hotspot.**
- **Built-in wireless modem for NMS supporting remote control and alarm**
- **IP65 protection has high resistance to dust, water and corroding**

Introduction

Our 800MHz Digital hybrid Power Repeaters (DPR) provides an excellent solution to the problem of poor signal coverage for coverage extension and for in building & outdoor applications. The Hybrid Digital Repeater designed to provide a more cost-effective solution than adding BTS. The DPR amplifies the signals from mobile phones and base stations and can be used in dead areas where service is poor. The DPR has up to 4 digital sub bands filters, each sub band can be tuned from 200KHz up to 10 MHz, and used to improve coverage in areas with limited signal strengths. The DPR is connected to an outdoor donor antenna using a coaxial cable. The donor antenna transmits signals from TETRA handset and receives signals from the BTS. Signals from TETRA handset used in the dead zones are then received by the service antenna and transmitted to the DPR donor antenna, which in turn transmits 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	806-824 MHz	851 – 869 MHz
Channel / Band Selection	Up to 4 wideband digital filters 0.2 -10 MHz & Up to 8 channel selective digital filters Adjustable through software within specified above frequency range	
Gain	90 dB +/- 3dB	
Composite output power (uplink/downlink)	24 dBm	33 dBm
Gain Control Range	0-31dB in 1dB step	
Pass Band Ripple	+/- 3dB	
Spurious emission	≤-36dBm/9KHz-1GHz ≤ -30dBm/1GHz-12.75GHz	
Third-order Inter-Modulation	≤ -45dBc / 30kHz (measured under rated output power)	
Noise Figure	6 dB	
Group Delay	Between 8μS for wide band to 28μS for 25KHz	
VSWR	1.8:1	
Power Supply	176-264/45-55Hz VAC	
Power consumption	150 watts	
RF Connector / Impedance	N Female / 50 ohm	
Size	428mm X 328mm X220mm	
Weight	25 kg	
Enclosure	IP65 Box ready for wall or pall mount installation	
Work temperature	-30° to +55°	
Enclosure cooling	Convection	
MTB	> 100,000 hours	
Local Control	PC+USB and WiFi Hotspot	
Remote Monitoring	WCDMA Wireless Modem(Via SMS)	
NMS Monitoring Function	Real-time alarm for door status, temperature, power supply, VSWR,; Remote control such as turn on/off, increasing/decreasing output power;	

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.

