

33dBm TETRA/DMR 800MHz Band Selective Bi-Directional Amplifier

Model No: PR-800-33W85



Features:

- Bi-directional Amplifier (Repeater) fully compliance with DMR and CE standards
- IP65 enclosure for indoor or outdoor installations
- Comply with TETRA /Apco-25 and DMR/LMR standards and system requirements.
- Utilizes advanced filtering technology to support out-of-band system requirements.
- Provide quick RF coverage extension to LMR/DMR/TETRA/P25 Base-Station
- Band-selective configuration according to the standard or customized bands
- Optional channel selective type with up to 8 DSP filters of 25KHz each
- Metal cavity filter technology allows wider receiving/transmitting separation, higher stability, and lower noise figure.
- Intelligent design provides auto amplitude compensation with a built-in ALC function.
- USB port for local supervision, with built-in 3G/4G modem for remote management and configuration and mobile app.

Introduction

The EMTS Telecom Services DMR channel selective Power Repeater / Bi-Directional Amplifier (BDA) provides an excellent solution for in-building applications for poor signal coverage or outdoor coverage extension. Typical applications are Airports, Tourism regions, tunnels, factories, mining districts, villages, Hotels, exhibition centers, basements, shopping malls, offices, parking lots, and others. With the BDA, the DMR/TETRA/ P25 operator can quickly expand a base station's service area by filling in coverage holes caused by terrain, buildings, or tunnels. Easy installation, lightweight design, and very friendly GUI make the EMTS repeater easy to use and install. Its Band-selective functionality enables amplifying only the selected band.



EMTS Telecom Services offers a comprehensive portfolio of enhanced coverage solutions for Wireless Networks. Based on advanced technologies. EMTS has proven, that 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 Wireless Networks.

Technical Specifications

Electrical Specifications	Uplink	Downlink
Frequency Ranges (MHz)	806-816 MHz	851-861 MHz
Bandwidth	Band Selective type according to the above list of standard frequencies or customized band per customer definition (Optional channel selective with up to 8 channels)	
Gain	83dB(±3dB)	
Gain Adjustment Range	30 dB in 1 dB step	
Pass Band Ripple	≤3dB	
Composite Output Power	25dBm (±1 dB)	33 dBm (±1 dB)
AGC Range	30 dB	
VSWR	1.5:1	
Noise Figure@ Max Gain	≤4.5 dB	
Spurious emissions	≤-36dBm (9KHz to 1GHz); ≤-30dBm (1GHz to 12.5GHz)	
Third-order Inter-Modulation	≤ -45dBc / 30kHz (measured under rated output power)	
Group Delay band selective mode	5 μs	



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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External connection	
Connector	N-F / 50 ohms
Alarm Detection	HPA, LNA, TEMP, PSU, Digital IF module, Local LED display, external Dry Contacts
Local Alarm and Setting	Through RJ45
Remote management and alarms	Via 4G modem or dial-up modem (optional)
Power Supply	Standard - 220V AC Power supply Optional –48 or 24V DC or Dual - 220V AC & -48V DC With an automatic switchover
Power Consumption	<150 watts
Environmental	
Operating Temperature Range	-30 to +55 °C
Cooling	IP67
Environmental Sealing	Up to 95% (non-condensing) comply with ETSI EN 300 019-2-4
Operating Humidity	447*357*171mm
Size (W x H x D)	18Kg
Comply with Standards	
Safety	EN60950-1, EN 50385
EMC	EN 301 489-1, EN 301 489
Radio	EN 302 561
DMR	ETSI TS 101 789-1 and EN 303 035-1 and EN 300 394-1
CE	Comply



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