

37dBm 400MHz High-Performance DMR /LMR/TETRA Band Selective Power Repeater

Model No: PR-400-37W90



Features:

- Bi-Directional Amplifier (BDA) configuration
- 37dBm Downlink composite powerfully complies with DMR/LMR standards
- Band Selective BDA configuration (optional channel selective)
- Linear amplification with low spurious inter-modulation output
- Compact size and waterproof enclosure suitable for outdoor and indoor installations
- Advanced Metal cavity filter technology allows wider receiving and transmitting separation, flatness, higher stability and lower noise figure
- Advanced design, with built-in ALC function
- Remote management via a 4G modem & monitoring software

Introduction

The EMTS Telecom Services DMR /TETRA 400MHz Band selective Repeaters (BDA) provide an excellent solution to the problem of poor signal coverage for outdoor coverage extension and in-building coverage, e.g., underground, tunnels & subways along with low traffic areas such as suburbs and villages, confined spaces such as hospitals, market place ,and basement. Using the Repeater, the DMR or TETRA service provider can quickly expand a base station's service area by filling in coverage holes caused by terrain, buildings, or tunnels. The Repeater amplifies the signals from the DMR/TETRA handset and base stations and can be used in dead areas where service is poor. Using a coaxial cable, the Repeater is connected to an outdoor 'donor' antenna. The donor antenna transmits signals from mobile phones and receives signals from the BTS. The EMTS power repeater is a cost-effective and practical solution for extending signal coverage. The unit includes an optional wireless modem to support the remote and an optional monitoring system with advanced NMS SW.



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.

Technical Specifications

Electrical Specifications		Uplink	Downlink
Frequency range		350-512 MHz	350-512 MHz
Bandwidth		Any bandwidth of 1MHz and up with at least 3MHz separation between uplink and downlink	
Gain		90dB	
Gain Adjustment Range		30dB in 1dB steps	
Pass Band Ripple		≤±1.5 dB	
Output Power		24dBm	40dBm
AGC Range		30dB	
VSWR		≤1.8:1	
Noise Figure@ Max Gain		≤5dB	
Spurious Emission	Within Working Band	≤-25dBm/30KHz	
	Outside Working Band	9KHz to 1GHz: ≤-36dBm/30KHz	
		1GHz to 12.75GHz : ≤-30dBm/30KHz	
Inter-modulation attenuation	Within Working Band	≤-15dBm/30KHz	
	Outside Working Band	9KHz to 1GHz : ≤-36dBm/30KHz	
		1GHz to 12.75GHz : ≤-30dBm/30KHz	
Group Delay		<5μs	
Power Supply		110/220VAC, 50-60Hz	
Power Consumption		100 Watt	
External connection			
Connector		N-F /50 ohms	
Local setting		Via USB connectivity	
Alarm and Control (optional)		Via 4G modem	
Environmental			
Operating Temperature Range		-20 to +55°C	
Cooling		Convection	
Environmental Sealing		IP65	
Operating Humidity		Up to 95% (non-condensing)	
Mechanical			
Dimensions		325x280x 180 mm	
Weight		15KG	

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 wireless networks' standards.

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Comply with Standards	
Safety	EN60950-1, EN 50385
EMC	EN 301 489-1, EN 301 489
Radio	EN 302 561
TETRA (DMR)	ETSI TS 101 789-1 and EN 303 035-1 and EN 300 394-1
CE	Comply
Safety	EN60950-1, EN 50385
EMC	EN 301 489-1, EN 301 489



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