



TURNING TECHNOLOGY INTO SOLUTIONS

40dBm 700-800MHz High Selectivity High Power Band/Channel Selective Repeater

Model: HPR-78-40W90 / CSHPR-78-40W90



Features

- Dual Band configuration 700 and 800 MHz DMR/LMR bands
- Superior RF performance, high efficiency with a digital module for block or channel selectivity, and multiple block operation
- Superior RF performance, high efficiency
- Downlink 40dBm composite power
- Easy installation, operation, and maintenance
- Intelligent design, with built-in ALC function and Isolation preventing
- Comply with APC025, DMR, and LTE standards
- IP65 enclosure, 4G modem for remote management, and alarm

Introduction

The EMTS Telecom Services 700-800MHz, 40dBm High Power Repeater, provides an excellent solution to the problem of poor signal coverage for Public Safety networks. EMTS's proven amplifier technology is designed to extend coverage for Public Safety in-building that meets all code requirements, including FirstNet frequencies to advanced noise cancellation, oscillation avoidance, and automated filter selection that guarantees the best performance. This dual-band, dual-mode repeater has a robust, flexible design that simplifies traditional configuration issues and addresses today's interference and performance challenges. Easy installation, lightweight design, and easy usage make our 700-800MHz Mini Repeater a cost-effective and practical solution for extending signal coverage.



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 Specifications

NO.	Items		Parameters	
			Downlink	Uplink
1	Frequency Range	Band 1	758-775 MHz	788-805 MHz
		Band 2	851-869 MHz	806-824 MHz
	Bandwidth		For Block selective up to 4 digital filters per band For channel selective 8/16 25KHz channel selective filters	
2	Output Powe		40dB	27dBm
3	Gain		90±3dB	90±3dB
4	Gain Modulation Range/Step		30dB / 1dB	
5	Gain Modulation Error		While the gain is 0-20dB, the Error is ≤1dB; While the gain is 21-30dB, the Error is ≤1.5dB	
6	Noise Factor		≤5dB	≤5dB
7	Max NO Damage Input Power		-10dBm	-10dBm
8	Automatic Level Control (ALC)		Output power variation < 2dB or be off when adding 10dB at max output power. Control range ≥ 30dB.	
9	Pass Band Ripple		≤3dB	
10	VSWR		≤1.5	
11	Time Delay		≤13.0μs	
12	Spurious Emissions	In-Band	≤-36dBm/3kHz or ≤-60dBc/3kHz	
13		Out of Band	9kHz~1GHz : ≤-36dBm 1GHz~12.75GHz : ≤-30dBm	
14	IMD	In-Band	≤-45dBc/30kHz	
14		Out-ofBand	9kHz~1GHz : ≤-36dBm 1GHz~12.75GHz : ≤-30dBm	
15	Rejection Out of band		≤-30dBc@±1MHz ≤-60dBc@±5MHz	
15	Power Consumption		≤125W	
16	Local Monitoring & Control		RS232	
17	RF Connection Mode		N/F, 50Ω	
18	Power Supply Mode		AC 220V±20%, 50±5Hz; Europe Standard	
19	Operating Temperature		-25°C ~ +55°C	
20	Relative humidity		≤95%	
21	Weight - Casing class - Mounting		≤35kg / IP65 / Wall or Pole Mounting	
22	Dimension		357mm×217mm×453mm (W*H*L)	



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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