EMTS
Telecom Services

TURNING TECHNOLOGY INTO SOLUTIONS

High Selectivity SMR 700-800MHz High Power Repeater

Model: HPR-70-80-40W90

Features

- Superior RF performance & efficiency, Supports SMR 700-800 MHz
- Dual or Sigle block configuration at the SMR 850 MHz band
- Downlink 40dBm composite power (35dBm per band)
- High Gain and low Noise Figure
- Advanced ALC & PLL technology, high stability and reliability
- Comply with SMR APCO25, iDEN and LTE standards.
- Easy installation, operation and maintenance
- Remote monitoring via GPRS modem
- Light weight, compact Size and High Performance
- Intelligent design, with built-in ALC function

Introduction

The EMTS Telecom Services 700-800MHz, 40dBm High Power-Repeaters provide an excellent solution to the problem of poor signal coverage. The Power-Repeaters amplify the signals from the handset and base stations and can be used in dead areas where service is poor. The High Power-Repeater is connected to an outdoor 'donor' antenna using a coaxial cable. The donor antenna transmits signals from the handset and receives signals from the BTS. Service antennas are placed in dead zones. Easy installation, lightweight design and easy usage make our 700-800MHz Repeater a cost-effective and practical solution for extending signal coverage for indoor or Outdoor applications.

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.

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Electrical Specifications

NO.	Items		Parameters	
			Downlink	Uplink
1	Frequency Range **The 800 MHz frequencies is for example only, can set any band configuration**	Band 1	766MHz～767MHz	796MHz～797MHz
		Band 2	851MHz～856MHz	806MHz～811MHz
		Band 3	866MHz～869MHz	821MHz～824MHz
2	Output Power（Max）		40±2dBm (total) 35±2dBm/band	33±2dBm (total) 28±2dBm/band
3	Max Gain		90±3dB	90±3dB
4	Gain Modulation Range		30dB	
5	Gain Modulation Step		1dB	
6	Gain Modulation Error		While gain is 0-20dB,Error≤1dB;While gain is 21-30dB,Error≤1.5dB	
7	Noise Factor		≤5dB	≤5dB
8	Max NO Damage Input Power		-10dBm	-10dBm
9	Automatic Level Control（ALC）		Output power variation < 2dB or be off when adding 10dB at max output power. Control range≥30dB.	
10	Pass Band Ripple		≤3dB	
11	VSWR		≤1.5	
12	Time Delay		≤13.0μs	
13	Spurious Emissions	In-Band	≤-36dBm/3kHz or ≤-60dBc/3kHz	
		Out-Band(Deviation from the band edge outside 2.5MHz)	9kHz～1GHz：≤-36dBm	
			1GHz～12.75GHz：≤-30dBm	
14	IMD	In-Band	≤-45dBc/30kHz	
		Out-Band(Deviation from the band edge outside 2.5MHz)	9kHz～1GHz：≤-36dBm	
			1GHz～12.75GHz：≤-30dBm	
15	Rejection Out of band		≤-30dBc@±1MHz ≤-60dBc@±5MHz	
16	Power Consumption		≤125W	
17	Local Monitoring & Control		RS232	
18	RF Connection Mode		N/F,50Ω	
19	Power Supply Mode		AC 220V±20%,50±5Hz; Europe Standard	
20	Operating Temperature		-25℃ ～ +55℃	
21	Relative humidity		≤95%	
22	Weight - Casing class - Mounting		≤35kg / IP65 / Wall or Pole Mounting	
23	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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