EMTS
Telecom Services
TURNING TECHNOLOGY INTO SOLUTIONS

VHF 150-172 MHz
High Power Channel Selective
Bi Directional Amplifier
Model No: CSHP-BDA-VHF-37W85

Features:

- **37 dBm composite power.**
- **Supports all combinations of VHF150-172 MHz bands**
- **Utilizes advanced digital IF technology.**
- **Channel can be controlled via NMS.**
- **Provide quick RF coverage service to your LMR Base-Station**
- **Waterproof enclosure suitable for outdoor and indoor deployments.**
- **Metal cavity filter technology, allows wider receiving / transmitting separation, higher stability and lower noise figure.**
- **Intelligent design, with built-in ALC function, provides auto amplitude compensation.**

Introduction

The EMTS Channel selective Power Repeaters, provides an excellent solution to the problem of poor signal coverage for outdoor coverage extension and for in-building applications.

Through the use of the Repeater the LMR operator can easily expand a base station's service area by filling in coverage holes caused by terrain, buildings or tunnels. The Repeater amplifies the signals from LMR handset and base stations and can be used in dead areas where service is poor. The Repeater is connected to an outdoor 'donor' antenna using a coaxial cable.

The donor antenna transmits signals from mobile phones and receives signals from the BTS. Easy installation, lightweight design and very friendly GUI make our Repeater easy to use and install.

The EMTS power repeater is a cost-effective and practical solution for extending signal coverage and includes wireless modem to support remote and monitoring NMS.

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	Uplink	Downlink
Frequency Ranges (MHz)	150-172 MHz (10 MHz separation between uplink to downlink)	
Channel Operational Bandwidth	25 KHz	
Number of Channels	1 to 2 programmable in same unit	
Gain	85 dB	
Gain Adjustment Range	30 dB in 1 dB step	
Pass Band Ripple	≤±1.5 dB	
Output Power	30 dBm	37 dBm
AGC Range	20 dB	
VSWR	1.5:1	
Noise Figure @ Max Gain	5 dB	
Spurious	≤-36dBm (9KHz to 1GHz) ≤-30dBm(1GHz to 12.5GHz)	
Group Delay	25 μs	
External connection		
Connector	N-F / 50 ohm	
Alarm Detection	HPA, LNA, TEMP, PSU, Digital IF module, Door	
Local Alarm Option; NMS interface	PSU, HPA, LNA, Digital IF Module, Temp, Door; Remote control gain of Uplink and Downlink	
Power Supply	220VAC ±15% 50-60Hz / 200 Watts	
Environmental		
Operating Temperature Range	-20 to +55 °C	
Cooling	Convection	
Environmental Sealing	IP65	
Operating Humidity	Up to 95% (non-condensing)	
Complies with	EN 301 489-18, ETSI TS 101 789-1, EN 60 950	
Standards	450×400×295 mm	

Ordering information:

Model No: CSHP-BDA-VHF-37W85-X-Y

X= Uplink band
Y= Downlink band

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.

Note: All specifications subject to change without notice.