

30dBm VHF Digital Channel Selective Bi-Directional Amplifier

Model No: CSPR-VHF-30W80-147



Features:

- Off-the-air coupling for VHF fiber DAS system feeds the master unit with the selected channels
- Utilizes advanced digital IF technology; Channel can be controlled locally or via NMS
- Intelligent design, with built-in ALC function, provides auto amplitude compensation
- Designed to support Mission Critical Services for VHF system at 147-174 MHz band.
- Designed to expand signal coverage or fill the signal blind area where VHF signals are weak or unavailable; the channel-selective function can amplify only the signals transmitted
- Stable and improved signal transmission quality
- The off the Air BDA feed master units, which support 4 to 8 Remote Units
- Aluminum casing with IP66 protection has high resistance to dust, water and corrosion
- WiFi or RJ45 port provides a link to a notebook for local supervision or to the built-in wireless modem to communicate with the NMS (Network Management System)

Introduction

The EMTS Telecom Services channel selective VHF BDA provides an excellent solution to the feed VHF Fiber Optic DAS. Using the BDA, the LMR operator can easily expand a base station's service area by filling in coverage holes caused by terrain, buildings, or tunnels. The BDA amplifies the signals from LMR BTS using a downlink amplifier; the signals from the handset coming from the master unit are transmitted to the BTS using an uplink amplifier. The signals from the BTS are selected via the digital engine and the signals transmitted from the BDA to the BTS are filtered via the digital engine. The donor antenna transmits signals from mobile phones and receives signals from the BTS. Easy installation, lightweight design and very friendly GUI makes the EMTS BDA easy to use and install. The EMTS BDA is a cost-effective and practical solution for extending signal coverage and includes a 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 solutions that address any combination of unique and complex network needs for the Wireless Networks.

Electrical Specifications	Downlink	Uplink
Frequency Ranges	147-174MHz	147-174MHz
Channel Operational Bandwidth	25KHz	
Digital channels	Up to 8 programmable in same unit	
Gain	80 dB±2 dB	
Gain Adjustment Range	30 dB in 1 dB step	
Pass Band Ripple	≤±1.5 dB	
Output Power	30dBm	20dBm
AGC Range	20dB	
VSWR	2:1	
Noise Figure@ Max Gain	5dB	
Spurious	≤-36dBm (9KHz to 1GHz) ≤-30dBm(1GHz to 12.5GHz)	
Group Delay	25μs	
External connection		
Connector	N-F / 50ohm	
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	110 to 220VAC ±15% 50-60Hz / 60 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	
Weight	30Kg	



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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Note: All specifications subject to change without notice.