
AMPB-900/10

10 W 40 dBm OUTDOOR 900 MHz AMPLIFIER W/ ACTIVE POWER CONTROL



Bydirectional amplifiers are compatible with 900 MHz wireless LAN equipment including the new generation 2.75 Mbit CCK (Complementary Code Keying) spread spectrum radios. The active power control circuit automatically adjusts the amplifier's gain to provide a constant output power regardless of cable length.

This amplifier improves range by delivering full transmit power and receive gain directly at the antenna where it is most effective. This gain compensates for cable losses and actually increases the receive sensitivity of most wireless LAN radios. The unit can be configured to deliver the full transmit power with as little as 1 mW of input power, permitting cable runs of several hundred feet with no degradation in operating range.

Applications:

- 900 MHz ISM Band Applications
- 900 MHz Spread Spectrum Wireless LAN
- Telemetry Applications

Features:

- Active Power Control
- Transmit and Receive LEDs
- DC Injector included
- Machined Aluminum Construction
- Durable UV-Stable Finish

Specifications	
Transmit Power	10 Watt (37 dBm)
Frequency	902 - 928 MHz
Receive Gain	15 dB
Max. Input Power	100 mW (20 dBm)
Operating Mode	Bi-directional, half-duplex Time Division Duplex. Senses RF carrier from transmitter and automatically switches from receive to transmit mode
Dimensions	7.25 x 4.25 x 2.12 (inches)
Weight	1.7 lbs. (.77 kg)
Water Resistant Rating	IEC 60529 IPX7
Current Draw	4.5A Peak Tx and 0.12A Peak Rx
Supply Voltage	12VDC -1.5V / +1V
Operating Temperature	-40°C to 50°C

Note

This bi-directional amplifier is designed for burst half-duplex operation. It is not intended for constant transmit, CW or high duty cycle operation. Operation of the amplifier in CW or high duty cycle modes will damage the amplifier and void the warranty.