



SmartAmp™ Bi-Directional 900MHz: 5Watt

900 MHz Series

Designed for extending the range of 900 MHz wireless radio devices, the SmartAmp™ is particularly effective when used with Direct Sequence or Frequency Hopping Spread Spectrum radio modems. This unit provides transmit power amplification as well as receive signal gain.

The built-in dynamic power sensor in SmartAmp™ adjusts the Radio Frequency (RF) power output level by reading the input signal power. This Automatic Gain Control (AGC) Technology, Teletronics' patented technology effectively making the RF amplifiers "Plug & Play" delivers the maximum output power at various input levels while keeping the distortion at a minimum.



Item# 12-105

Technical Information

Features:	5 Watt					
Operating Range:	902-928 MHz					
Operating Mode:	Bi-directional, TDD					
Transmit Gain:	26 dB max					
Frequency Response:	1 dB over operating range					
Output Power:	5 Watt (+37 dBm) nominal					
TX Input Power:	up to 20dBm (100mW)					
Receiver Gain:	14 dB typical					
Noise Figure:	3.5 dB typical					
LED Indicators:	<table border="1"> <tr> <th>RED</th> <th>GREEN/ORANGE</th> </tr> <tr> <td>Solid On: Power and Receiving mode OFF: No Power</td> <td>Blinking: Transmitting</td> </tr> </table>	RED	GREEN/ORANGE	Solid On: Power and Receiving mode OFF: No Power	Blinking: Transmitting	
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Solid On: Power and Receiving mode OFF: No Power	Blinking: Transmitting					
Connectors:	N-type, Female, 50 Ohm					
Lightning Protection:	Quarter Wave Technology					
DC Surge Protection:	Available					
Power Consumption:	1.8A @ 12V DC					
Operating Temperature:	Amplifier: -30 C to + 70 C 15V DC injector: -30 C to + 70 C					

FCC NOTICE

The use of all radio equipment is subject to radio regulations in each country. It is the responsibility of the purchaser/installer/operator to insure that only approved equipment/systems are deployed. For the ISM band (900MHz, 2.4GHz, 5.7GHz) equipment manufactured, sold/or used in the USA, FCC Title 47, Part 15 governs the sale, lease, use and manufacture of equipment (wireless LAN cards, wireless Access points, amplifiers, etc.) and prohibits the same unless such equipment is used in the FCC-certified system configuration with which such equipment is authorized.