



# SmartAmp™ Bi-Directional 1W Indoor Amplifier

## 2.4GHz

Designed for extending the range of 2.4 GHz wireless radio devices, the SmartAmp™ is particularly effective when used with Direct Sequence or Frequency Hopping Spread Spectrum radio modems. The unit provides the 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. Ideal for increasing the range of low power radio devices and to compensate for cable loss in certain installations.



Item# 12-213

### Technical Specifications

<b>Features:</b>	1 Watt Indoor
<b>Operating Range:</b>	2400 - 2500 MHz
<b>Operating Mode:</b>	Bi-Directional, TDD
<b>Transmit Gain:</b>	up to 24 dB
<b>Frequency Response:</b>	+/- 1 dB
<b>Output Power:</b>	1 Watt (+30 dBm)
<b>TX Input Power:</b>	0 dBm min, 23 dBm max
<b>Receiver Gain:</b>	17dB typical
<b>Noise Figure:</b>	3.5dB typical
<b>LED Indicators:</b>	<b>RED: Solid On:</b> Power and Receiving mode/ <b>Off:</b> No Power <b>GREEN/ORANGE: Blinking:</b> Transmitting
<b>Connectors:</b>	Tx = 1.2A, Rx = 130 mA @ 9VDC4
<b>Lightning Protection:</b>	Quarter Wave Technology
<b>DC Surge Protection:</b>	Available
<b>Power Consumption:</b>	Tx = 800 mA, Rx = 130 mA @ 9V DC
<b>Operating Temperature:</b>	-40°C to + 70°C
<b>Dimensions:</b>	3" L x 3" W x 1.07" H