



SmartAmp 2.4GHz, 250mW

2.4 GHz

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.

Technical Information

Features	250mWatt Indoor/Outdoor
Operatin Range	2400-2500 MHz
Operating Mode	Bi-Directional, TDD
Transmit Gain	up to 22dB
Frequency Response	+/- 1dB
Output Power	250mW (+24dBm)
TX Input Power	0dBm min, 23dBm max
Receiver Gain	10-13 dB, 12 dB typical
Noise Figure	3.5 dB typical
LED Indicators	RED: Solid On: Power and Receivng mode Off: No Power GREEN/ORANGE: Blinking: Transmitting
Connectors	N-type Female, 50 Ohm
Lightning Protection	Quarter Wave Technology
DC Surge Protection	Available
Power Consumption	Tx = 540 mA, Rx = 80 mA @ 7.5V DC
Operating Temperature	-40°C to + 70°C



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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.