TELETRONICS INTERNATIONAL

SmartAmp
2.4 GHz Series
500 mW Version

Feature

Designed for extending the range of 2.4 GHz wireless radio devices, the Smart-Amp is particularly effective when used with Direct Sequence or Frequency Hopping Spread Spectrum radio modems. The unit provides transmit power amplification and receives signal gain.

Full output power of 500mW is achieved with only 2.5mW input to the amplifier. Above 2.5 mW input, the smartamp attenuates the input signal power and maintains the output power typically at 500mW.

Substantial discounts available for OEMs and large volume purchases. Also available in 900MHz & 5.8GHz versions.

Contact sales office for details.

Specifications

Operating Range:	2400-2500 MHz
Operating Mode:	TDD
Lightning Protection:	Direct DC ground at antenna
DC Surge Protection:	600 Watts TVS @ 7.5 VDC

Mechanical & Environmental

Operating Temperature:	-40 to +70 degree C
Power:	650mA @ 7.5VDC
Dimensions	
Amplifier:	4.5” L X 3.0” W X 1.1”H
DC Injector:	3.5” L X 3.0” W X 1.2”H
Weight	
Amplifier:	0.5 lb
DC injector:	0.4 lb
RF Connector:	N, Female
Smart Function:	Yes

Transmitter Amplifier

Transmit Gain:	up to 22 dB
Transmit input power:	3 dBm (2 mW) min 23 dBm (200 mW) max
Transmit output power:	max of 27dB (500mW)

Receiver Amplifier

Receive Gain:	12 dB typical
Frequency Response:	+/- 1 dB
Noise Figure:	3.5 dB typical

Patents Pending

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