

TELETRONICS INTERNATIONAL

## Feature

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 transmit power amplification and receives signal gain.

Full output power of 250mW 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 250mW.

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

Contact Pulse for details.

# SmartAmp 2.4 GHz Series 250mW Version



## Specifications

Operating Range: 2400-2500 MHz  
Operating Mode: TDD  
Lightening 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 @7.5 VDC  
Dimensions:  
Amplifier: 4.5" L X 3" W X 1"H  
DC Injector: 3.5" L X 3" W X 1.18" H  
Weight:  
Amplifier: 0.5 lb  
DC injector: 0.4 lb  
RF Connector: N, Female  
Smart Function: Yes

## Transmitter Amplifier

Transmit Gain: up to 20 dB  
Transmit input power: 1 mW min  
200 mW max  
Transmit output power: max of 250 mW

## Receiver Amplifier

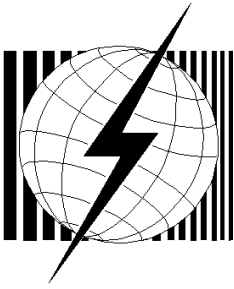
Receive Gain: 14 dB typical  
Frequency Response: +/- 1  
Noise Figure: 3.5 dB

[www.pulsewan.com](http://www.pulsewan.com)

[amps@pulsewan.com](mailto:amps@pulsewan.com)

Toll Free: 888-785-7393

Int'l: 909-699-3891



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## 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 5mW input to the amplifier. Above 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.

Contact Pulse for details.

## SmartAmp 2.4 GHz Series 500 mW Indoor Version



### 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: 3.0" L X 3.0" W X 1.0"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

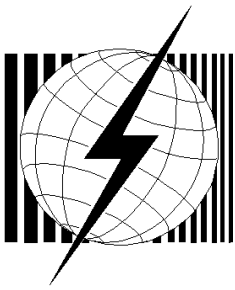
Receive Gain: 12 dB typical  
Frequency Response: +/- 1 dB  
Noise Figure: 3.5 dB typical

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Int'l: 909-699-3891



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## Feature

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 transmit power amplification and receives signal gain.

Full output power of 1W is achieved with only 4mW input to the amplifier. Above 4 mW input, the smartamp attenuates the input signal power and maintains the output power typically at 1W.

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

Contact sales office for details.

# SmartAmp 2.4 GHz Series 1Watt Indoor Version



## Specifications

Operating Range: 2400-2500 MHz  
Operating Mode: TDD  
Lightning Protection: Direct DC ground at antenna  
DC Surge Protection: 600 Watts TVS @ 9 VDC

## Mechanical & Environmental

Operating Temperature: -40 to +70 degree C  
Power: 1.2 A @ 9 VDC  
Dimensions Amplifier: 4.5 " L X 3" W X 1.2 "H  
Weight:  
Amplifier: 0.6 lb  
RF Connector: N, Female  
Smart Function: Yes

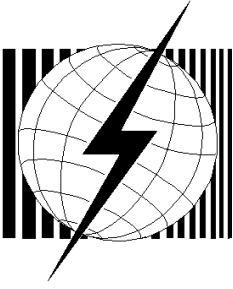
## Transmitter Amplifier

Transmit Gain: up to 24 dB  
Transmit input power: 1 mW min  
200 mW max

## Receiver Amplifier

Receive Gain: 17 dB typical  
Frequency Response: +/- 1 dB  
Noise Figure: 3.5 dB

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### Feature

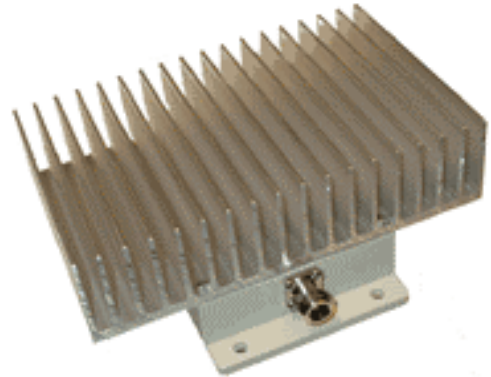
Designed for extending the range of 2.4 GHz wireless radio devices, the Smart-Amp is particularly effective when used with Direct Sequence or Frequency Hopping Spread Spectrum radio modems. The unit provides transmit power amplification and receives signal gain.

Full output power of 5W 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 5W.

Substantial discounts available for OEMs and large volume purchases.

Contact Pulse for details.

## SmartAmp 2.4 GHz Series 5W Version



### Specifications

Operating Range: 2400-2500 MHz  
Operating Mode: TDD  
Lightening Protection: Direct DC ground at antenna  
DC Surge Protection: 600 Watts  
TVS @ 12 VDC

### Mechanical & Environmental

Operating Temperature: -40 to + 60 degree C  
Power: 3.3 A @ 12VDC  
Dimensions:  
Amplifier 7.5" L X 6.0" W X 3.0"H  
DC Injector 3.5" L X 3.0" W X 1.2"H  
Weight:  
Amplifier 2.8 lb  
DC injector: 0.4 lb  
RF Connector: N, Female

### Transmitter Amplifier

Transmit Gain: up to 33 dB  
Transmit input power: 3 dBm (2 mW) min  
23 dBm (200 mW) max  
Transmit output power: max of 37 dB (5 Watt)

### Receiver Amplifier

Receive Gain: 10 dB typical  
Frequency Response: +/- 1  
Noise Figure: 3.5 dB typical

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## Feature

Designed for extending the range of 5.8 GHz wireless radio devices, the AMP5800 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.

This specially designed outdoor unit with its low Noise Amplifier (LNA) gives optimum performance when installed at the antenna.

Also available with the state of the art smart functions in 900 MHz and 2.4 GHz bands in several power options.

Contact Pulse for details.

# AMP5800-0.5

## 5.8 GHz 500 mW



### Specifications

Operating Range: 5725-5875 MHz  
Operating Mode: TDD

### Mechanical & Environmental

Operating Temperature: -40 to +70degreeC  
Power: 0.5A @ 9 VDC

Dimensions  
Amplifier: 4.5" L X 3.2" W X 1.2" H  
DC Injector; 4.53" L X 2.56" W X 1.18" H

Weight:  
Amplifier: 1 lb  
DC injector: 0.6 lb  
RF Connector: N, Female

### Transmitter Amplifier

Transmit Gain: 17 dB typical  
Transmit output power: 500 mW  
Transmit input power: 1 mW (0 dBm) min  
Up to 100 mW  
(20dBm) max

### Receiver Amplifier

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

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# AMP5800

## 5.8 GHz

### Feature

Designed for extending the range of 5.8 GHz wireless radio devices, the AMP5800 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.

This specially designed outdoor unit with its low Noise Amplifier (LNA) gives optimum performance when installed at the antenna.

Also available with the state of the art smart functions in 900 MHz and 2.4 GHz bands in several power options.

Contact Pulse for details.



### Specifications

Operating Range: 5725-5875 MHz  
Operating Mode: TDD  
DC Surge Protection: 600Watts TVS @ 12 VDC

### Mechanical & Environmental

Operating Temperature: -30 to +70degreeC  
Power: 1.7A @ 12 VDC  
Dimensions  
Amplifier: 6" L X 3.75" W X 2.4" H  
DC Injector; 4.53" L X 2.56" W X 1.18" H  
Weight:  
Amplifier: 2 lb  
DC injector: 0.6 lb  
RF Connector: N, Female

### Transmitter Amplifier

Transmit Gain: 23 dB typical  
Transmit output power: 1 W  
Transmit input power: 1 mW (0 dBm) min  
Up to 100 mW (20dBm) max

### Receiver Amplifier

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

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