Compact Perfection.

With its sleek design and just 4.3 inches in length, this Mini-Amp provides everything needed to extend the signal range of 5.8GHz wireless radio devices.

Reliable and Flexible.

This 802.11a 500mW M58 amplifier is Teletronics' latest development under the Bi-Directional RF Amplifier product line. These amplifiers are especially designed for excellent signal linearity with a low noise figure to achieve the maximum throughput allowed in the OFDM spectrum. Reliable and flexible, this achievement would allow you to increase the range of your wireless link and with only 10dBm input power, you can achieve 27dBm (500mW) OFDM output power.

Compatibility.

Typical radio devices can be Teletronics' TT5800, Proxim 5054 (MP.11a), and any other 802.11a radios. OFDM modulation can be achieved at 54 Mbps. The line of sight range is from 5 to 32 miles (depending on the antenna usage.)

Features

- 802.11a (OFDM) compatible
- Bi-directional
- Low noise figure
- Wide range of operating temperature
- Easy installation & Maximum flexibility
- N-type, Male/Female connectors
- Indoor and Outdoor use
- No mounting needed

### Specifications

**M58 Amplifier 500mW: #Item12-510**

- Frequency Range: 5725-5875 MHz
- Operating Mode: Bi-directional, TDD
- Transmit Gain: 13 dB
- Receive Gain: 12 dB typical
- Noise Figure: 3.5 dB typical
- Frequency Response Stability: ± 1 dB
- Input Power: 1mW (0dBm) min
- 25mW (14dBm) max
- Output Power: 500mW (0.5W)
- Connectors: N-type, Male/Female, 50 Ohm
- Power Consumption:
- Tx: 0.8A @ 7.5VDC
- Rx: 0.2A @ 7.5VDC
- Size: Length: 4.3”
- Diameter: 1.2”
- Weight: 0.7 lbs
- Operating Temperature: -30 °C to + 70 °C

**M58 Amplifier 250mW: #Item12-511**

- Frequency Range: 5725-5875 MHz
- Operating Mode: Bi-directional, TDD
- Transmit Gain: 13 dB
- Receive Gain: 12 dB typical
- Noise Figure: 3.5 dB typical
- Frequency Response Stability: ± 1 dB
- Input Power: 1mW (0dBm) min
- 16mW (12dBm) max
- Output Power: 250mW (0.25W)
- Connectors: N-type, Male/Female, 50 Ohm
- Power Consumption:
- Tx: 0.8A @ 7.5VDC
- DC Surge: 600Watts TVS @ 7.5VDC
- Size: Length: 4.3”
- Diameter: 1.2”
- Weight: 0.7 lbs
- Operating Temperature: -30 °C to + 70 °C