



# 900 MHz, 10 Watt Amplifier Outdoor unit

This high power, bi-directional amplifier is designed for 902~928 MHz radio products. Works equally well with all types of radios.

Designed in a completely weatherproof housing for all outdoor applications. The unit is powered over coax with DC injector.



### Salient Features:

1. **Transmit Gain:** The unit provides 30 dB of gain.
2. **LNA:** The built-in Low Noise Amplifier with signal gain of 19 dB with a ultra low noise figure of only 1.8 dB. Improves the receive sensitivity of remote equipment, while keeping noise level very low.
3. **Receive Filtering:** All radio equipment contain filter for receive path. The band pass filter on this amplifier gives added protection against out of band noise.
4. **Enclosure:** The unit is housed in machined, Anodized Aluminum enclosure, designed according to the location of critical components. With appropriate cavities and contacts the PCB performs optimally and **NO heat sink** is needed.
5. **DC Injector:** With only 0.8dB insertion loss, this DC injector is the lowest loss available anywhere. Enclosed in specially designed machined aluminum housing.
6. **Warranty:** All Shireen's products come with 2-year warranty.

### The complete set includes:

1. The Outdoor Amplifier,
2. DC injector, and
3. Universal power supply (110~240VAC to 12 V DC)

## Specifications

### Electrical:

Operating Range	902 - 928 MHz
Operating Mode	TDD, Time Division duplex,
Transmit Power	40 dBm, 10 Watt
Transmit Gain	30 dB
Transmit input Power	12 dBm (min) 25 dBm (max)
Receive Gain	19 dB
Noise Figure	2.9 dB
LED indicators	Red for Receive (Default mode) Green for Transmit
Power Consumption	110mA Rx, 3560 mA Tx @ 12 VDC
Operating Temp	-40 °C to + 70 °C

### Mechanical:

	Amplifier	DC Injector
Dimension:	6" x 3.5" x 1.1" (152.4mm x 88.9mm x 28.91mm)	1.4" x 3.5" x 1.0" (35.5mm x 88.9mm x 25.4)
Enclosure:	Watertight machined aluminum housing with Anodized finish	Machined aluminum housing with Anodized finish
Connectors:	Type N female	Type N female
Weight:	1lb 3oz (512 g)	2 Oz. (134 g)