

900MHz / 868MHz Outdoor Helium Amplifier Item # SHR90304

Offered in 902~928MHz and 863~870MHz bands (optional).

Utilizes ultra-low noise LNA on the receive side with 16dB of gain.



Tx gain set at 6dB for use with Helium and other mining devices. 0dB or bypass option available as well.

Salient Features:

- 1. Transmit Gain: 6dB Tx gain is sufficient to recover all cable/connector losses and give full 1watt power that's legally allowed in most areas.
- 2. LNA: The built-in Ultra Low Noise Amplifier with signal gain of 16 dB improves the receive sensitivity of remote equipment, while keeping noise level very low.
- 3. Receive Filtering: The band pass filter on this amplifier gives added protection against out of band noise.
- Enclosure: The unit is housed in patented housing that does not require mounting hardware and seals to a 4. completely watertight unit with a twist of hand. A state-of-the-art unit.
- 5. Power consumption: With only 5 watt of power consumption during max transmit and 0.25W during Rx, this product is the most efficient product available anywhere.
- 6. DC Injector: With only 0.8dB insertion loss, this DC injector is the lowest loss available anywhere. Enclosed in specially designed machined aluminum housing.
- 7. Warranty: All Shireen's amplifier products come with 2-year warranty and made in USA.

The complete set includes:

- The Outdoor Amplifier, 1.
- 2. DC injector, and
- Universal power supply (110~240VAC to 6 V DC) 3. 4 RPSMA to N male cable

Specifications:

Electrical:

902 - 928 MHz (863-870MHz optional)
TDD, Time Division duplex,
30 dBm, 1 Watt
6 dB (0dB or bypass option available)
0 dBm min 24 dBm max
16 dB
1.2 dB
Red for Receive, Green for Transmit (visible only when cover removed)
40mA Rx, 0.9A Tx @ 6 VDC
-40 °C to + 70 °C

Mechanical:

Connectors:

Weight:

Amplifier	
Dimension:	1.1" (28mm) diameter 4.1" (104mm) long
Enclosure:	Weatherproof, machined
Connectors:	Type N male for antenna port and female for radio port
Weight:	10 Oz. (283 g)
DC Injector	
Dimension:	1.4" x 3.5" x 1.0" (with Type N female connectors)
Enclosure:	Machined aluminum housing with Anodized finish

Machined aluminum housing with Anodized finish Type N female 4.7 Oz. (134 g)