

# ID Industrial Series 868 MHz Remote-Mount Dipole Whip Antenna

The ID series industrial dipole antennas are designed for rugged outdoor applications and are rated for a wide temperature range and UV exposure for long-term reliability.

The 868 MHz ID antenna is designed for sub-1 GHz and low-power, wide-area (LPWA) applications including LoRaWAN®, Sigfox®, and other unlicensed ISM bands in the 862 MHz to 876 MHz range.

The antenna can be mounted using the integrated mounting flange with 2 screws for permanent installation or with the optional adhesive patch. The antenna connects via RG-58/U coaxial cable in lengths of 1 or 2 meters which allows the antenna to be remote-mounted for optimal RF performance, and is terminated with an SMA plug (male pin) connector.



### Features

- Performance at 862 MHz to 876 MHz
  - VSWR:  $\leq 1.8$
  - Peak Gain: 0.9 dBi
  - Efficiency: 55%
- Weatherized assembly for outdoor installation
  - Antenna rated IP-67
  - UV protection, UL 2556 Section 4.2.8.5 or equivalent
- Low-profile antenna with integrated mounting flange
- SMA plug (male pin) connector

### Applications

- Low-power, wide-area (LPWA) applications
  - LoRaWAN®
  - Sigfox®
- ISM band applications
- Internet of Things (IoT) devices
- Smart Home networking
  - Security systems
  - Home weather stations
- Remote sensing, monitoring and control
  - Industrial machinery
  - AMR (automated meter reading)

### Ordering Information

Part Number	Description
ANT-868-ID-1000-SMA	Antenna with 1 m of RG-58/U coaxial cable, terminated in an SMA plug (male pin)
ANT-868-ID-2000-SMA	Antenna with 2 m of RG-58/U coaxial cable, terminated in an SMA plug (male pin)
MEC-PSA-ID	Optional adhesive patch

Available from Linx Technologies and select distributors and representatives.

Electrical Specifications

ANT-868-ID	868 MHz		
Frequency Range	862 MHz to 876 MHz		
VSWR (max)	1.8		
Peak Gain (dBi)	0.9		
Average Gain (dBi)	-2.7		
Efficiency (%)	55		
Cable	RG-58/U in 1 m (39.37 in) or 2 m (78.74 in) length		
Connection	SMA plug (male pin)		
Impedance	50 $\Omega$	Polarization	Linear
Wavelength	1/2-wave	Electrical Type	Dipole
Radiation	Omnidirectional	Max Power	10 W
Dimensions	Length: 109.6 mm (4.31 in), Diameter: 9.5 mm (0.37 in)		
Weight	59.4 g (2.10 oz) or 97.9 g (3.45 oz)		
Operating Temp. Range	-40 °C to +80 °C		

VSWR

Figure 1 provides the voltage standing wave ratio (VSWR) across the antenna bandwidth. VSWR describes the power reflected from the antenna back to the radio. A lower VSWR value indicates better antenna performance at a given frequency. Reflected power is also shown on the right-side vertical axis as a gauge of the percentage of transmitter power reflected back from the antenna.

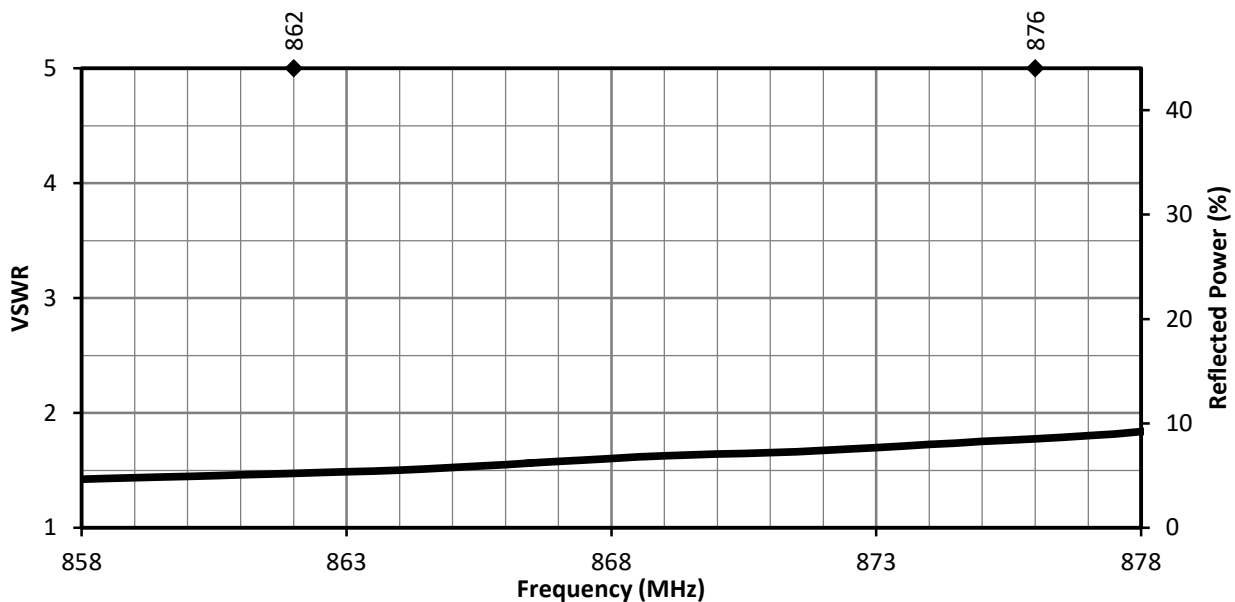


Figure 1. ANT-868-ID VSWR

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