

# HDP Industrial Series Remote Adhesive-Mount 868 MHz/915 MHz Antenna

The Linx HDP industrial series offers rugged remote-mount dipole antennas having excellent performance for low-power, wide-area (LPWA) applications such as LoRaWAN®, Sigfox® and WiFi HaLow™ as well as other sub-1 GHz unlicensed spectrum applications.

The LPWA HDP industrial antennas are durable, low profile, IP67 ratable, and UV protected. They mount permanently to non-conductive surfaces using the integrated adhesive patch and connect using 2 meters of RG-174/U low-loss cable terminated in an SMA plug (male pin), or RP-SMA plug (female socket) connector for FCC Part 15 compliant applications.



## Features

- Performance at 868 MHz
  - VSWR:  $\leq 1.8$
  - Peak Gain: 0.6 dBi
  - Efficiency: 27%
- Performance at 915 MHz
  - VSWR:  $\leq 1.9$
  - Peak Gain: 0.4 dBi
  - Efficiency: 25%
- Low profile
  - 104.0 mm x 17.0 mm x 4.2 mm
- Durable UV protected enclosure rated at IP67 for heavy-duty outdoor use
- Low-loss RG-174/U coaxial cable for improved performance at higher frequencies
- SMA plug (male pin) or RP-SMA plug (female socket) connector

## Applications

- Low-power, wide-area (LPWA) applications
  - LoRaWAN®
  - Sigfox®
  - WiFi HaLow™ (802.11ah)
- Remote sensing, monitoring and control
- Internet of Things (IoT) devices
- Gateways

## Ordering Information

Part Number	Description
ANT-8/9-HDP-2000-SMA	Remote adhesive-mount sub-1 GHz antenna with 2 m of RG-174/U low-loss coaxial cable terminated in an SMA plug (male pin)
ANT-8/9-HDP-2000-RPS	Remote adhesive-mount sub-1 GHz antenna with 2 m of RG-174/U low-loss coaxial cable terminated in an RP-SMA plug (female socket)

Available from Linx Technologies and select distributors and representatives.

Table 1. Electrical Specifications

ANT-8/9-HDP-2000	868 MHz	915 MHz	
Frequency Range	862 MHz to 876 MHz	902 MHz to 930 MHz	
VSWR (max)	1.8	1.9	
Peak Gain (dBi)	0.6	0.4	
Average Gain (dBi)	-5.9	-6.6	
Efficiency (%)	27	25	
Polarization	Linear	Radiation	Omnidirectional
Impedance	50 Ω	Max Power	10 W
Wavelength	1/2-wave	Electrical Type	Dipole

Table 2. Mechanical Specifications

ANT-8/9-HDP-2000	868 MHz / 915 MHz
Connection	SMA plug (male pin) or RP-SMA plug (female socket)
Cable	2.0 m (78.74 in) of RG-174/U low-loss coaxial cable
Operating Temp. Range	-40 °C to +85 °C
Weight	42.0 g (1.48 oz)
Dimensions	104.0 mm x 17.0 mm x 4.2 mm (4.09 in x 0.67 in x 0.17 in)

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.

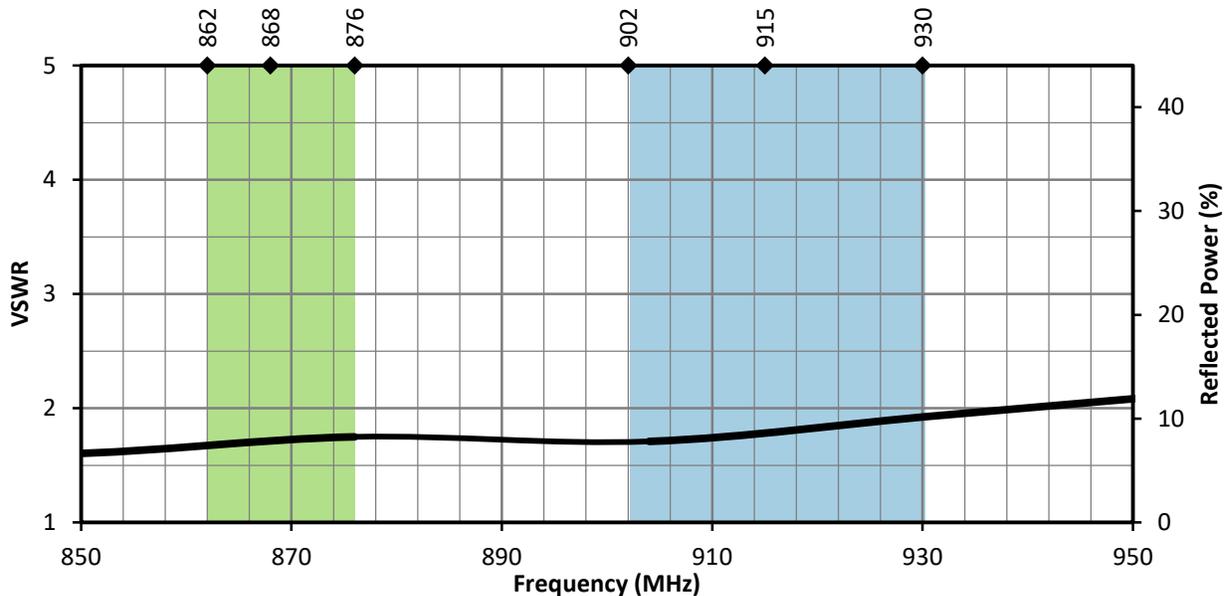


Figure 1. ANT-8/9-HDP-2000 Antenna VSWR, with Frequency Band Highlights

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