Product Brief

VDP Industrial Series
Remote Adhesive-Mount Dual-Band WiFi Antenna

The Linx VDP industrial series offers rugged remote-mount dipole antennas having excellent performance for single- and dual-band WiFi/WLAN as well as other 2.4 GHz or 5 GHz ISM and U-NII frequency band applications.

The dual-band VDP 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 2.4 GHz
  - VSWR: ≤ 1.5
  - Peak Gain: 2.4 dBi
  - Efficiency: 23%
- Performance at 5 GHz
  - VSWR: ≤ 1.4
  - Peak Gain: -0.6 dBi
  - Efficiency: 12%
- Low profile
  - 115.0 mm x 22.0 mm x 6.3 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

- Single- and dual-band WiFi/WLAN
  - 802.11b/g
  - WiFi 4 (802.11n)
  - WiFi 5 (802.11ac)
  - U-NII bands 1-4
- ISM Applications:
  - Bluetooth®
  - ZigBee®
- Internet of Things (IoT) devices
- Smart Home networking
- Sensing and remote monitoring

Ordering Information

Part Number	Description
ANT-2/5-VDP-2000-SMA	Remote adhesive-mount dual-band WiFi antenna with 2 m of RG-174/U low-loss coaxial cable terminated in an SMA plug (male pin)
ANT-2/5-VDP-2000-RPS	Remote adhesive-mount dual-band WiFi 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-2/5-VDP-2000	2.4 GHz	5 GHz
Frequency Range	2.4 GHz to 2.485 GHz	5.15 GHz to 5.85 GHz
VSWR (max)	1.5	1.4
Peak Gain (dBi)	2.4	-0.6
Average Gain (dBi)	-6.6	-10.6
Efficiency (%)	23	12

Polarization	Linear	Radiation	Omnidirectional
Impedance	50 Ω	Max Power	10 W
Wavelength	1/2-wave	Electrical Type	Dipole

Table 2. Mechanical Specifications

ANT-2/5-VDP-2000	Dual Band WiFi
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	47.0 g (1.66 oz)
Dimensions	115.0 mm x 22.0 mm x 6.2 mm (4.53 in x 0.87 in x 0.24 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.

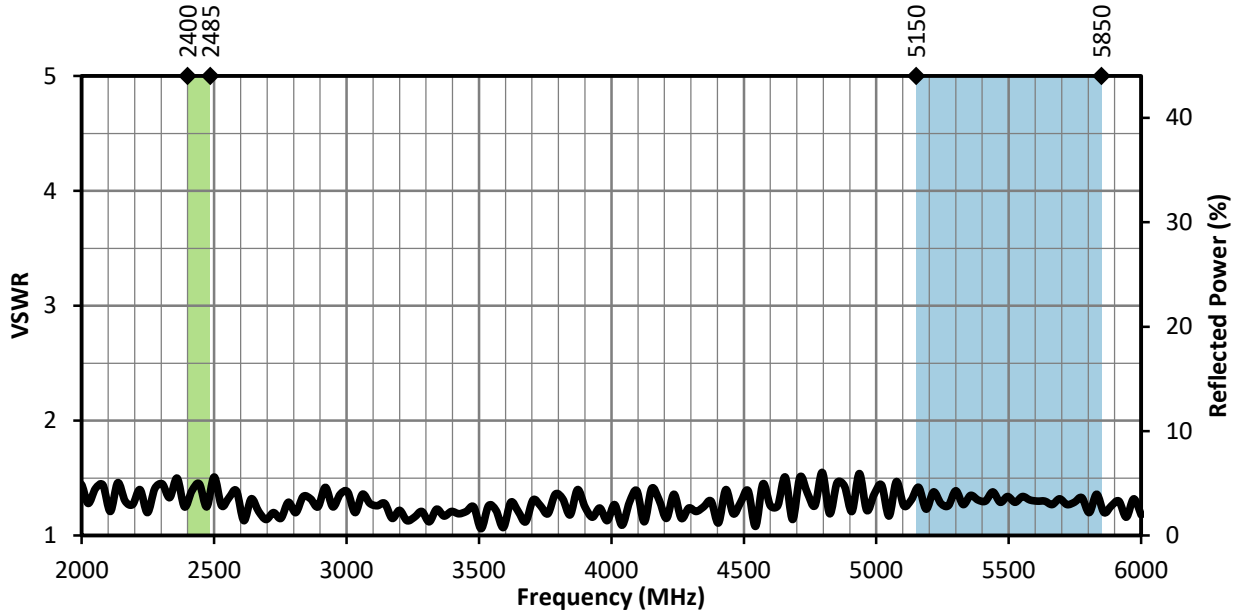

Figure 1. ANT-2/5-VDP-2000 Antenna VSWR, with Frequency Band Highlights

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