

## Product Brief



## VDP Industrial Series Remote Adhesive-Mount Cellular Antenna

The Linx VDP industrial series offers rugged remote-mount dipole antennas having excellent performance for all common 5G and LTE bands and cellular IoT (LTE-M and NB-IoT) applications.

The 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) connector.



### Features

- Performance at 617 MHz to 803 MHz
  - VSWR:  $\leq 2.5$
  - Peak Gain: 4.9 dBi
  - Efficiency: 60%
- 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)

### Applications

- Worldwide 5G, LTE, UMTS and GSM
- Cellular IoT: LTE-M (Cat-M1) and NB-IoT
- Frequency bands
  - T-Mobile: band 71
  - AT&T: bands 12, 14, 17
  - Verizon: band 13
  - Europe: bands 8, 20
  - Latin America: bands 5, 28
  - Asia Pacific: bands 5, 8, 20, 28
- Global Navigation (GNSS)
- Internet of Things (IoT) devices

### Ordering Information

Part Number	Description
ANT-LTE-VDP-2000-SMA	Remote adhesive-mount cellular antenna with 2 m of RG-174/U low-loss coaxial cable terminated in an SMA plug (male pin)

Available from Linx Technologies and select distributors and representatives.

Table 1. Electrical Specifications

ANT-LTE-VDP-2000	Frequency Range	VSWR (max.)	Peak Gain (dBi)	Avg. Gain (dBi)	Efficiency (%)
LTE 71	617 MHz to 698 MHz	2.5	4.2	-5.6	56
LTE 12, 13, 14, 17, 26, 28, 29	698 MHz to 803 MHz	1.6	4.9	-2.4	62
LTE 5, 8, 20	791 MHz to 960 MHz	2.2	4.9	-3.6	62
LTE 1, 2, 3, 4, 25, 66	1710 MHz to 2200 MHz	1.5	3.9	-4.1	42
LTE 30, 40	2300 MHz to 2400 MHz	1.5	1.8	-6.0	27
LTE 7, 41	2496 MHz to 2690 MHz	1.5	4.5	-5.6	30
LTE 22, 42, 43, 48, 49, 52	3300 MHz to 3800 MHz	1.4	1.3	-9.7	13
GPS/GNSS	1553 MHz to 1609 MHz	1.7	4.2	-3.1	50
CBRS	3550 MHz to 3700 MHz	1.3	0	-10.0	10
C-Band	3700 MHz to 4200 MHz	1.4	-0.6	-11.7	8
Public Safety	4940 MHz to 4990 MHz	1.5	-3.3	-13.6	5
<b>Polarization</b>	Linear	<b>Radiation</b>		Omnidirectional	
<b>Impedance</b>	50 Ω	<b>Max Power</b>		10 W	
<b>Wavelength</b>	1/2-wave	<b>Electrical Type</b>		Dipole	

Table 2. Mechanical Specifications

ANT-LTE-VDP-2000	
<b>Cable / Termination</b>	2.0 m (78.74 in) of RG-174/U low-loss coaxial cable / SMA plug (male pin)
<b>Operating Temp. Range</b>	-40 °C to +85 °C
<b>Weight</b>	47.0 g (1.66 oz)
<b>Dimensions</b>	115.0 mm x 22.0 mm x 6.2 mm (4.53 in x 0.87 in x 0.24 in)

### Product Dimensions

Figure 1 provides dimensions of the ANT-LTE-VDP-2000. The antenna comes with 2 m (78.74 in) of RG-174/U low-loss coaxial cable terminated by an SMA plug (male pin) connector.

### Antenna Mounting

The remote adhesive-mount VDP industrial series antenna mounts permanently to non-conductive surfaces using the integrated adhesive patch. The mounting surface should be clean, dry and free of oil residue for ideal adhesion.

### Packaging Information

The VDP industrial series antennas are packaged in bags of 50. Distribution channels may offer alternative packaging options.

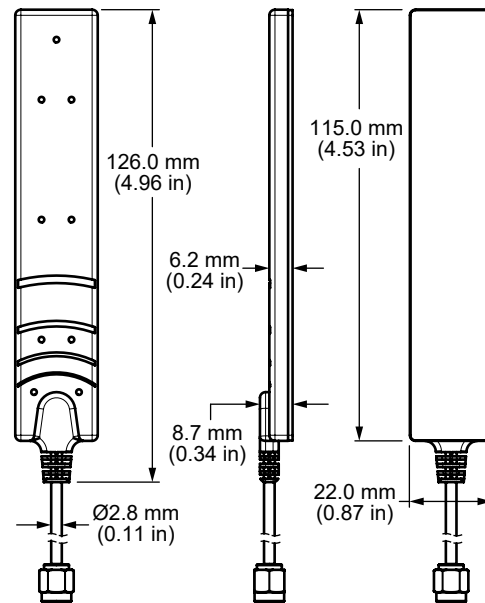


Figure 1. ANT-LTE-VDP-2000 Antenna Dimensions

VSWR

Figure 2 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.

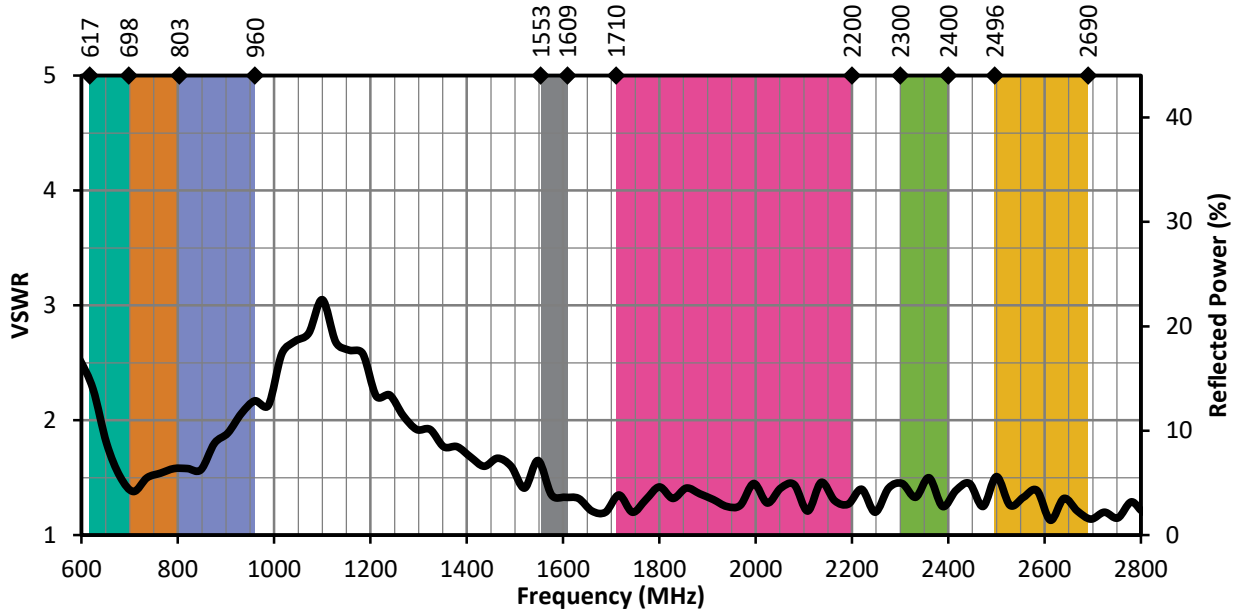


Figure 2. ANT-LTE-VDP-2000-SMA Antenna VSWR, with Frequency Band Highlights

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