

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

Table 2. Mechanical Specifications

ANT-LTE-VDP-2000	
Cable / Termination	2.0 m (78.74 in) of RG-174/U low-loss coaxial cable / SMA plug (male pin)
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)

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.

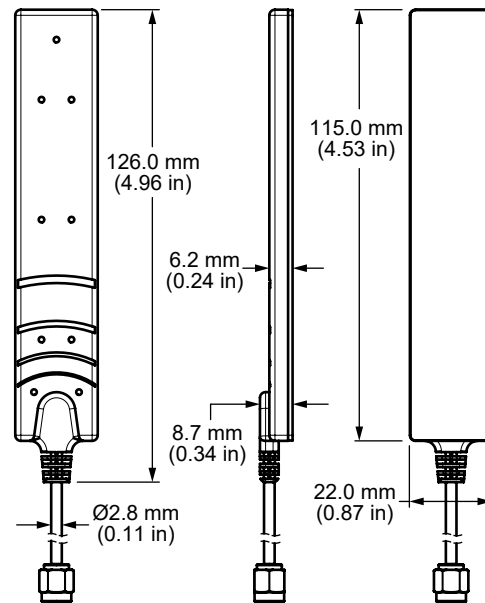


Figure 1. ANT-LTE-VDP-2000 Antenna Dimensions

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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.

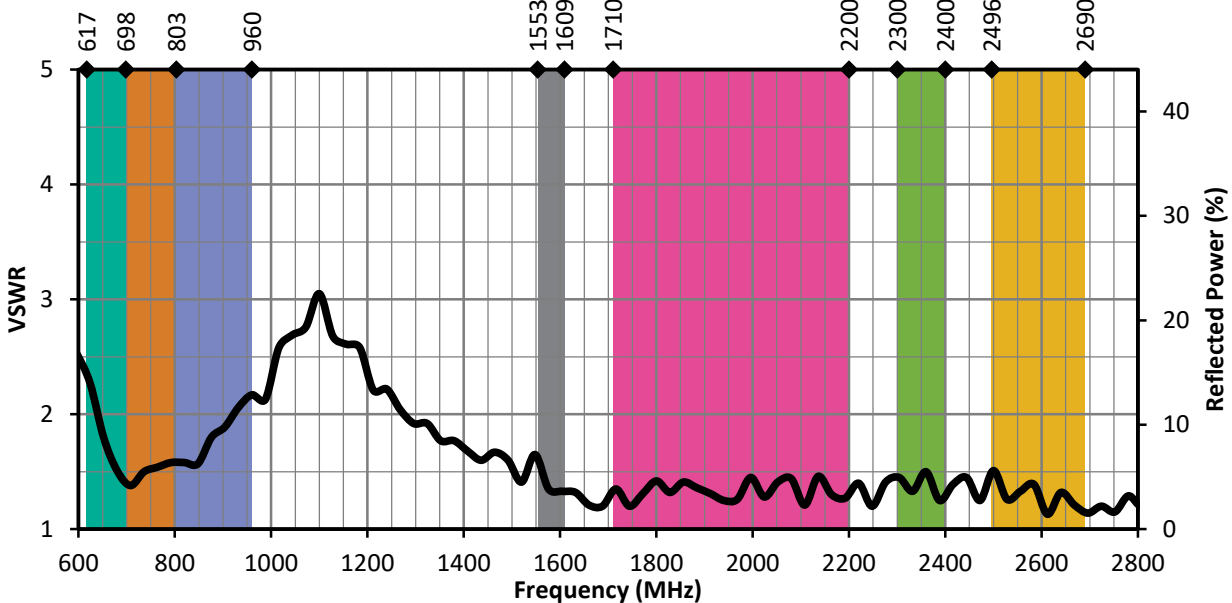


Figure 2. ANT-LTE-VDP-2000-SMA Antenna VSWR, with Frequency Band Highlights

Website: <http://linxtechnologies.com> • Phone: +1 (541) 471-6256 • E-MAIL: info@linxtechnologies.com • Linx Offices: 159 Ort Lane, Merlin, OR, US 97532

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