

Product Brief



ANT-5GWWS4-ccc Cellular Sub-6 5G Antenna

The ANT-5GWWS4 is a dipole, blade-style antenna for 5G New Radio, LTE, and cellular IoT (LTE-M, NB-IoT) applications requiring a cost-effective but stylish and very capable antenna solution.

The ANT-5GWWS4 antenna is made from rugged ABS plastic and is available in black or white. The hinged design allows for the antenna to be positioned for optimum performance and reduces the potential for damage from impact compared to a fixed whip design. The antenna is available with an SMA plug (male pin) connector.



ANT-5GWWS4-SMA-W shown

Features

- Performance at 3300 MHz to 3800 MHz
 - VSWR: ≤ 3.6
 - Peak Gain: 4.9 dBi
 - Efficiency: 58%
- Performance at 698 MHz to 803 MHz
 - VSWR: ≤ 3.9
 - Peak Gain: 2.8 dBi
 - Efficiency: 60%
- Hinged design with detents for straight, 45 degree and 90 degree positioning
- SMA plug (male pin) connection

Applications

- Worldwide 5G/4G/3G/2G
- Cellular IoT: LTE-M (Cat-M1) and NB-IoT
- Internet of Things (IoT) devices
- Home and business networking

Ordering Information

Part Number	Description
ANT-5GWWS4-SMA	Cellular 5G blade-style antenna with SMA plug (male pin), black
ANT-5GWWS4-SMA-W	Cellular 5G blade-style antenna with SMA plug (male pin), white

Available from Linx Technologies and select distributors and representatives.

Table 1. Electrical Specifications

Bands	Frequency Range	VSWR (max.)	Peak Gain (dBi)	Avg. Gain (dBi)	Efficiency (%)
71	617 MHz to 698 MHz	4.3	1.7	-1.8	69
12, 13, 14, 17, 26, 28, 29	698 MHz to 803 MHz	3.9	2.8	-2.6	60
5, 8, 20	791 MHz to 960 MHz	4.7	2.7	-3.7	48
1, 2, 3, 4, 25, 66	1710 MHz to 2200 MHz	3.2	4.4	-2.4	63
30, 40	2300 MHz to 2400 MHz	3.2	4.1	-2.6	57
7, 41	2496 MHz to 2690 MHz	2.5	3.4	-1.2	79
22, 42, 43, 48, 49, 52, n77, n78	3300 MHz to 3800 MHz	3.6	4.9	-2.8	58
48 (CBRS)	3550 MHz to 3700 MHz	3.5	4.8	-2.2	61
C-Band	3700 MHz to 4200 MHz	3.3	4.9	-3.8	50
n79	4400 MHz to 5000 MHz	3.0	5.2	-3.1	53
Impedance	50 Ω				
Wavelength	1/2-wave				
Electrical Type	Dipole				
Radiation	Omnidirectional				
Polarization	Linear				
Max Power	5 W				

Electrical specifications and plots measured with the antenna in a 90 degree orientation on the edge of a 102 mm x 102 mm ground plane.

Table 2. Mechanical Specifications

Parameter	Value
Connection	SMA plug (male pin)
Antenna Color	Black, White (-W)
Operating Temp. Range	-20 °C to +65 °C
Weight	20.4 g (0.72 oz)
Dimensions	175.3 mm x 19.6 mm x 13.0 (6.90 in x 0.77 in x 0.51 in)

Packaging Information

The ANT-5GWWS4 antenna is individually sealed in a clear plastic bag. Distribution channels may offer alternative packaging options.

Product Dimensions

Figure 1 provides dimensions of the ANT-5GWWS4-ccc. The antenna whip can be tilted 90 degrees, with a detent at 45 degrees enabling the antenna to be oriented in any direction. The rotating base allows for continuous positioning through 360 degrees even while installed.

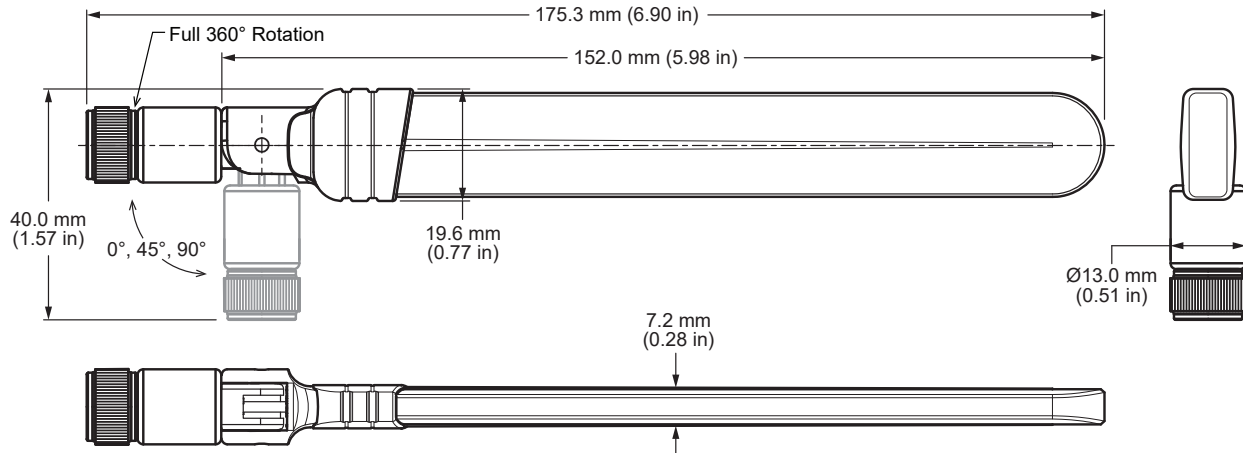


Figure 1. ANT-5GWWS4-ccc Antenna Dimensions

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.

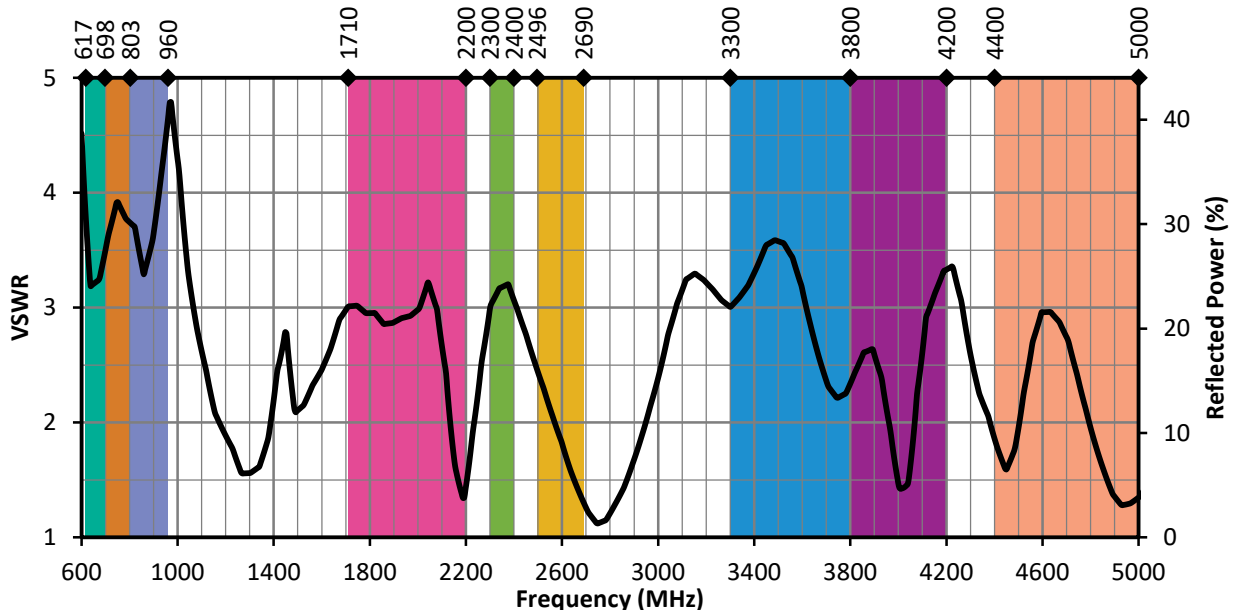


Figure 2. ANT-5GWWS4-ccc VSWR, Edge Bent 90 Degrees

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