

ANT-122-S02

Low Profile MIMO 4G/5G Omni Screw-Mount Antenna



Applications

- Kiosks
- Vending Machines
- Digital Signage
- Video Surveillance
- Point-of-Sale Terminals
- SCADA / Telemetry / PLCs

Product Features

- 2 MIMO Elements in Single Radome
- Ultra Low Profile ~ 0.6 inches Tall
- Vandal Resistant & Weatherproof
- Compatible with all 4G * 5G Networks
- Compatible with most Cellular Modems/Routers
- 2.5 dBi Peak Gain
- Omni-Directional
- SMA Male Connectors on 6.5 ft Low-Loss Coax



Ordering Information

Part No.	Description
ANT-122-S02	Proxicast Ultra Low Profile MIMO 4G / 5G Omni-Directional Screw-Mount Antenna

General Description

This extremely low profile (< 0.6 inches tall) fixed mount omni-directional antenna provides up to 2.5 dBi of gain and works on all 4G/LTE and sub-6 GHz 5G frequencies on Verizon, AT&T, T-Mobile, US Cellular, Bell Mobility, Rogers, Telus, Sasktel, Telcel, Movistar, Digicel and many other cellular operators worldwide.

Permanently mounts via a 1/2 in. (12 mm) hole with locking internal nut. Resists vandalism with no exposed coax cable. Includes 6.5 ft of low-loss coax fed through center mounting post. Completely waterproof (IP67).

Designed for M2M applications such as vending machines, meter housings, equipment sheds, or other locations requiring an inconspicuous low-profile external antenna. Paintable for additional camouflage. Can also be vehicle mounted for buses, vans, trucks or other mobile installations.

Dual integrated SMA male plug connectors mate with SMA female jacks on 2x2 MIMO capable modems, routers, etc.

For optimum performance this antenna should be mounted through a flat, horizontal metal surface at least 8 inches in diameter.

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Electrical Specifications

Parameter	Rating
Frequency Range	600-6000 MHz includes all 4G, LTE and Sub-6 FR1 5G Bands used worldwide
Peak Gain	2.5 dBi
VSWR	≤ 3
Input Impedance	50 Ohm
Polarization	Vertical
Max Input Power	50 W
DC Grounded	No
Recommended Ground Plane	8 inch (20 cm) diameter min

Mechanical Specifications

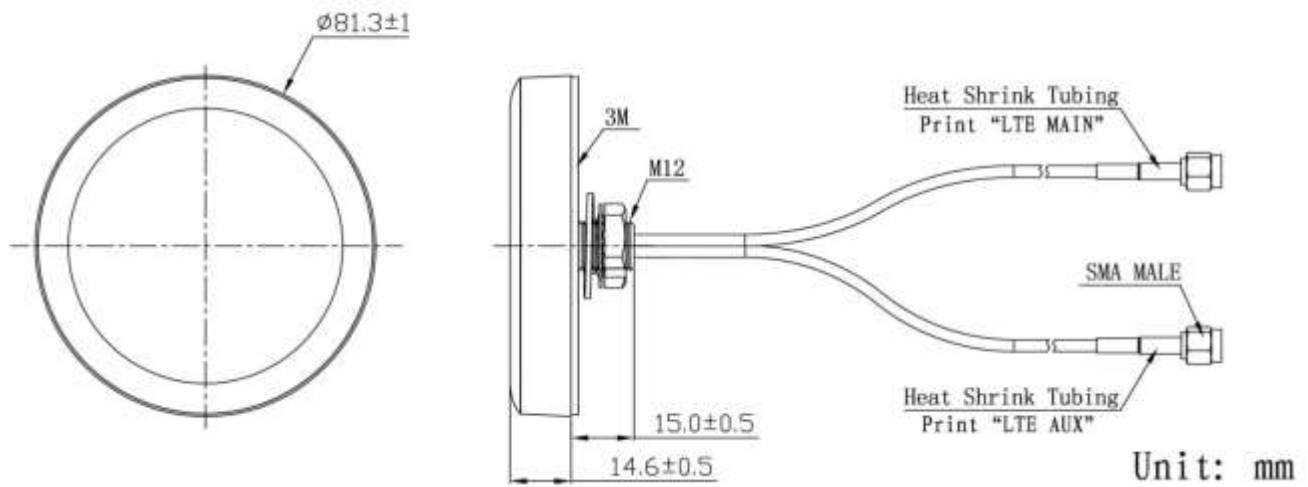
Parameter	Rating
Connector Type	SMA Male (plug) x 2
Cable Length	6.5 ft (2 m) of CFD100 low-loss coax
Height	Radome: 0.65 inches (17 mm) above mounting surface Mounting Post: 0.4 inches (10 mm) Overall: 1.2 inches (30.6 mm)
Diameter	Radome: 3.2 inches (81.3 mm)
Weight	3.8 oz (108 g)
Materials	Radome: UV stabilized ABS plastic Connectors: Brass Adhesive Pad: Urethane Foam
Antenna Color	Black
Vibration	10 to 55Hz with 1.5mm amplitude 2 hours
Operating Temperature	-40°C to +85°C
Environmental Rating	IP67 (waterproof) RoHS compliant

Operation of this device outside the parameter ranges given above may cause permanent damage.

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Mechanical Dimensions



Product Images



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Peak Gain By Band

4G Band	5G Band	Transmit (MHz)	Receive (MHz)	Peak Gain (dBi)
1	n1	1920 - 1980	2110 - 2170	2.8
2	n2	1850 - 1910	1930 - 1990	-0.5
3	n3	1710 - 1785	1805 - 1880	-1.0
4		1710 - 1755	2110 - 2155	1.8
5	n5	824 - 849	869 - 894	-0.1
7	n7	2500 - 2570	2620 - 2690	-2.0
8	n8	880 - 915	925 - 960	0.8
9		1749.9 - 1784.9	1844.9 - 1879.9	-1.0
10		1710 - 1770	2110 - 2170	2.8
11		1427.9 - 1447.9	1475.9 - 1495.9	4.2
12	n12	699 - 716	729 - 746	-0.5
13	n13	777 - 787	746 - 756	-0.7
14	n14	788 - 798	758 - 768	0.6
17		704 - 716	734 - 746	-0.5
18	n18	815 - 830	860 - 875	-0.9
19		830 - 845	875 - 890	-0.1
20	n20	832 - 862	791 - 821	-0.2
21		1447.9 - 1462.9	1495.9 - 1510.9	4.4
22		3410 - 3490	3510 - 3590	3.6
24	n24	1626.5 - 1660.5	1525 - 1559	0.7
25	n25	1850 - 1915	1930 - 1995	-0.5
26	n26	814 - 849	859 - 894	-0.1
27		807 - 824	852 - 869	-0.9
28	n28	703 - 748	758 - 803	0.6
29	n29	NA	717 - 728	-1.8
30	n30	2305 - 2315	2350 - 2360	-0.9
31		452.5 - 457.5	462.5 - 467.5	0.0
32		NA	1452 - 1496	4.4
33		1900 - 1920	1900 - 1920	-0.5
34	n34	2010 - 2025	2010 - 2025	0.4
35		1850 - 1910	1850 - 1910	-0.5
36		1930 - 1990	1930 - 1990	-0.5
37		1910 - 1930	1910 - 1930	-0.5
38	n38	2570 - 2620	2570 - 2620	-2.9
39	n39	1880 - 1920	1880 - 1920	-0.5
40	n40	2300 - 2400	2300 - 2400	-0.9
41	n41	2496 - 2690	2496 - 2690	-2.0
42		3400 - 3600	3400 - 3600	3.7
43		3600 - 3800	3600 - 3800	3.7
44		703 - 803	703 - 803	0.6
45		1447 - 1467	1447 - 1467	4.4
46	n46	5150 - 5925	5150 - 5925	1.0
47	n47	5855 - 5925	5855 - 5925	0.7
48	n48	3550 - 3700	3550 - 3700	3.7
49		3550 - 3700	3550 - 3700	3.7
50	n50	1432 - 1517	1432 - 1517	4.4

4G Band	5G Band	Transmit (MHz)	Receive (MHz)	Peak Gain (dBi)
51	n51	1427 - 1432	1427 - 1432	0.0
52		3300 - 3400	3300 - 3400	1.6
53	n53	2483.5 - 2495	2483.5 - 2495	0.0
54	n54	1670 - 1675	1670 - 1675	0.0
65	n65	1920 - 2010	2110 - 2200	3.1
66	n66	1710 - 1780	2110 - 2200	3.1
67	n67	NA	738 - 758	-0.5
68		698 - 728	753 - 783	0.6
69		NA	2570 - 2620	-2.9
70	n70	1695 - 1710	1995 - 2020	0.4
71	n71	663 - 698	617 - 652	-2.0
72		451 - 456	461 - 466	0.0
73		450 - 455	460 - 465	0.0
74	n74	1427 - 1470	1475 - 1518	4.4
75	n75	NA	1432 - 1517	4.4
76	n76	NA	1427 - 1432	0.0
	n77	3300 - 4200	3300 - 4200	3.7
	n78	3300 - 3800	3300 - 3800	3.7
	n79	4400 - 5000	4400 - 5000	2.9
	n80	1710 - 1785	NA	-1.0
	n81	880 - 915	NA	0.8
	n82	832 - 862	NA	-0.2
	n83	703 - 748	NA	-0.5
	n84	1920 - 1980	NA	-0.5
85	n85	698 - 716	728 - 746	-0.5
	n86	1710 - 1780	NA	-1.0
87		410 - 415	420 - 425	0.0
88		412 - 417	422 - 427	0.0
	n89	824 - 849	NA	-0.2
	n90	2496 - 2690	2496 - 2690	-2.0
	n91	832 - 862	1427 - 1432	-0.2
	n92	832 - 862	1432 - 1517	4.4
	n93	880 - 915	1427 - 1432	0.8
	n94	880 - 915	1432 - 1517	4.4
	n95	2010 - 2025	NA	0.4
	n96	5925 - 7125	5925 - 7125	0.8
	n97	2300 - 2400	NA	-0.9
	n98	1880 - 1920	NA	-0.5
	n99	1626.5 - 1660.5	NA	-0.8
	n100	874.4 - 880	919.4 - 925	1.6
	n101	1900 - 1910	1900 - 1910	-0.5
	n102	5925 - 6425	5925 - 6425	0.8
103		787.1 - 787.9	757.1 - 757.9	0.0
	n104	6425 - 7125	6425 - 7125	0.0
	n105	663 - 703	612 - 652	-2.0
	n106	896 - 901	935 - 940	0.8

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Installation Instructions

- Position away from:
 - CRT/TVs
 - Lighting fixtures & motors
 - Other antennas & wireless devices
 - Low-E or tinted/coated windows
 - Large vertical metal or concrete objects
- Drill a 1/2" (12mm) hole in flat horizontal surface
- Remove mounting nut & washer and feed coax cable through hole
- Remove bottom plastic liner to expose adhesive
- Press antenna into hole and tighten nut & washer from underneath
- Optionally apply a thin bead of silicone caulk around the antenna rim
- Keep total coax lead cable as short as possible & weatherproof all outdoor connectors

Contact Information

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