



ANT-100

IP67 Dome Omnidirectional Dual MIMO LTE Antenna

Features

5-in-1

Connect two LTE modems (CAT4-CAT12) using single antenna to save space and installation time.

GPS

Antenna includes high gain active GPS receiver for positioning or location tracking.

Wide bandwidth

Wide frequency range (698-2700MHz) supporting LTE connectivity in any location.

Robust design

Durable, IP67 rated and UV stable housing designed for mobile application.

Application

- Public Safety and Mission Critical Connectivity
- Mobile Healthcare
- Transportation Connectivity

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Specification

Cellular

Antenna elements	4 elements
Peak Gain & Frequencies	Gain: 1.0dBi Efficiency:> 55%@ 698MHz Gain: 1.2dBi Efficiency:> 58%@ 960MHz Gain: 3.4dBi Efficiency:> 60%@ 1710MHz Gain: 3.3dBi Efficiency:> 55%@ 2170MHz Gain: 3.3dBi Efficiency:> 48%@ 2500MHz Gain: 4.0dBi Efficiency:> 51%@ 2690MHz
Isolation	>10dB @698-960MHz >20dB @1710-2700MHz
VSWR	< 3 over 95% of the band
Feed power handling	10W
Input impedance	50 Ω
Polarisation	Linear

GPS

Frequency range	1570-1580 MHz
Peak gain	-2dBic @ 1575MHz
VSWR	< 1.5
Output return loss	10dB max
Polarisation	Circular
Noise figure	1dB max @ 3V
Operating Voltage	2.7 - 5V
Power consumption	10 ±2mA @ 2.7V

Cable (LTE, GPS)

Type	LMR200
Loss	0.33 dB/m @ 900 MHz 0.49 dB/m @ 2000 MHz 0.55 dB/m @ 2500 MHz 0.87 dB/m @ 5800 MHz
Diameter	Ø0.2" / Ø5.0mm
Jacket	Half matt PVC, UV resistant
Termination	QMA male, SMA male and N-Type male

Mounting

Supported types	Panel
Mounting hole	1.22" / 31mm
Max panel thickness	1.37" / 35mm

Mechanical

Product dimensions	
Height (spigot not included)	8.4" / 124 mm
Diameter	Ø4.33" / Ø110 mm
Weight	2.86 lbs / 1.3kg
Radome material	UV stable PC

Environmental, compliance

IP rating	IP67
Operating temperature	-40° - 176°F / -40° - 80°C
Storage temperature	-40° - 176°F / -40° - 80°C
Compliance	ROHS, REACH, WEEE
Wind survivability	137mph (220km/h)
Salt spray	MIL-STD 810F / ASTM 8117

The antenna is ground-independent. All measurements were done without a ground plane.

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Ordering information

Product Code	Description
ANT-100-LTE4-G	4xLTE, 1xGPS 698-2700MHz, SMA, White, 10 ft / 3m
ANT-100-LTE4-G-N	4xLTE, 1xGPS 698-2700MHz, N-type, White, 10 ft / 3m
ANT-100-LTE4-G-Q	4xLTE, 1xGPS 698-2700MHz, QMA, White, 10 ft / 3m

