

LTMG501

MULTIBAND SURFACE MOUNT ANTENNA

PRODUCT OVERVIEW

The LTMG501 is a multiband antenna that covers Cellular, WiFi, and GNSS. Its rugged radome makes it durable, high performing, and easy to install. It is ideal for applications such as Vehicle Fleet Management and Public Transportation.

- **Configurable & Versatile:** The LTMG501 series features (2x) LTE, (2x) WiFi, and (1x) GNSS. This provides MIMO (multiple-input-multiple-output) coverage for LTE. GNSS operates on GPS, Galileo, Glonass, QZSS, or Beidou.
- **Customizable:** Any of the LTM Series antennas can be tailored to meet your needs. Cable length and/or connectors can be customized to minimize cable loss.
- **Built to last:** Capitalizing on a rugged, UV rated ASA radome, the LTMG312 is water resistant, vibration and shock resistant, making it easy to mount on a metal surface or ground plane.


Tested and trusted, Mobile Mark focuses on quality, fast delivery, and leveraging the expertise of highly skilled professionals, specializing in customizable manufacturing solutions across North America and Europe. By combining advanced technologies with comprehensive team knowledge, we ensure tailored products that meet diverse needs, all delivered efficiently to exceed expectations.

Electrical Specifications		
Frequency & Gain	LTE Cables 1 & 2	694 - 960 MHz, 3 dBi 1710 - 2170 MHz, 4 dBi
	WiFi Cables 3 & 4	2.4-2.5 & 4.9-6.0 GHz, 5 dBi
	GNSS Cable 5	1561, 1575, & 1602 MHz, LNA 26 dB, 5 dBi (RHCP)
VSWR	< 2:1 VSWR Over Range	
Impedance	50 Ohm Nominal	
Power Rating	10 Watts	
GNSS	Amplifier Gain	26 dB +/- 3 dB
	Amplifier Bias Voltage	2.7 to 5 VDC
	Noise Figure	2.0 dB max, 1.5 dB typical
	Current	20 mA max, 10 mA typical

Mechanical Specifications	
Radome Material & Color	ASA UV-Inhibitive Plastic, Available in Black or White
Radome Base Material	Corrosion Resistant Aluminum
Radome Dimension	5.50" (139 mm) in Diameter & 2.38" (60 mm) in Height
Optional Mag-Mount	add 0.50" (13 mm) for height dimension
Standard (Male) Connectors	SMA Plugs for LTE & GNSS, Rev Pol SMA Plug for WiFi
Cables 1 - 3	Separate LL-195, 15 ft (4.5 m)
GNSS Cable 4	RG-174, 15 ft (4.5 m)
Operating Temperature	-40° to +80° C
Mounting	7/8" (22 mm) Dia. Feed Through 3/4" (19 mm) Ig. Thread for up to 1/2" (13 mm) Thick Surface
Shock & Vibration	IEEE-1478, EN 61373, MIL-810G, TIA 329.2-C
Dust & Water Ingress	IP69K (Stud Mount, When Properly Mounted)
	IP67 (Mag-Mount, When Properly Mounted)
RoHS Compliant	Yes



HIGHLIGHTS:

- Multiband Surface Mount
- Cellular, WiFi, and GNSS
- High Performance, High Gain
- Manufactured in North America & Europe 

COMMON APPLICATIONS:

- Vehicle Fleet Management
- Multiband Modems
- Public Transportation

BANDS:

- NR: n1, n2, n3, n4, n5, n6, n8, n9, n10, n12, n13, n14, n17, n18, n19, n20, n25, n26, n27, n28, n29, n33, n34, n35, n36, n37, n39, n67, n68, n85
- LTE: 1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 25, 26, 27, 28, 29, 33, 34, 35, 36, 37, 39, 67, 68, 85



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