



Multi-band Diversity/MIMO Antenna, LTE, WiFi & GPS

- 5-cables, multi-band antenna for LTE MIMO, WiFi MIMO & GPS
- Single mounting hole; easier installation
- Field proven design; dependable link
- Mechanically sound, meets Industrial & Military specs

Mobile Mark's LTM501 Series antenna contains five separate antennas, all in one compact antenna housing: two LTE 700 MHz & Cellular antennas, two dual-band WiFi antennas, and one GPS antenna.

MIMO (multiple-input-multiple-output) modems offer greater speed and capacity than earlier generations of modems. They achieve this by sending RF signals on multiple antenna elements to maximize the amount of information transmitted and received.

This new MIMO technology is used in several frequency bands, initially for 802.11n WiFi bands and more recently for LTE in the 700 MHz band. To ensure optimum performance, the systems need multiple antennas on both the transmission and receive ends.

With 5-elements, the new LTM antenna is ideal for fleet management systems that combine GPS with both an LTE MIMO modem as well as WiFi MIMO modem.

Measuring 5.5" (140mm) in diameter with a low profile of 2.38" (60.4mm), 5.5" (140mm) x 2.78" (70.6mm) with the magnet mount, LTM series antennas take up significantly less space than multiple antennas and cut down on installation time and costs by offering a single mounting hole.

Model Configurator

LTM501- -

Cable/Connector 1 —

Cable/Connector 2 —

Cable/Connector 3 —

Cable/Connector 4 —

Cable/Connector 5 —

Color —

Cable Length in Inches (eg. 12 or 180) —

Example: LTM501-3A3A3A3A2C-WHT-180

Specify “MLTM” instead of “LTM” for Magnet Mount Option

<u>Cable Options:</u>	<u>Connector Options:</u>	<u>Color Options:</u>
<u>Code</u>	<u>Connector</u>	<u>Code</u>
1	A	WHT
2	C	BLK
3	D	
	E	
	J	
	K	

Specifications			
Frequency & Gain (peak)*:		Radome Material:	
Cable 1 & 2 (LTE)	694-960 MHz, 3 dBi	ASA UV-Stable Plastic	
	1710-2170 MHz, 4 dBi	Operating Temperature:	
Cable 3 & 4 (WiFi)	2400-2500 MHz, 5 dBi	Connectors:	
	4900-6000 MHz, 5 dBi	SMA Plugs - Standard, Others Available	
Cable 5 (GPS)	1575.42 +/- 2 MHz, 26 dB, 5 dBi	Cable:	
VSWR*:	2:1 VSWR over Range	Cable 1-4	Separate RF-195,15 ft (4.5m)
Impedance:	50 Ohm Nominal	Cable 5 (GPS)	RG-174, 15 ft (4.5 meters)
Maximum Power:	10 Watts	Mounting:	7/8" (22mm) Dia. Feed through 3/4"(19mm)Long Thread for up to 1/2" (12mm)thick surface
Case:			IEEE1478, EN61373, MIL-810G, TIA 329.2-C
Surface Mount	5.50" Dia. x 2.38" High (140mm x 60.4mm)	Shock & Vibration:	
Magnet Mount	5.50" Dia. x 2.78" High (140mm x 70.6mm)	Water Ingress:	IP67
*Measured on 1' ground with 1' cable			