



## 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

**Model Configurator** 

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 Colligitation							
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							
Specify William instead of Line for Magnet Mount Option							
Cable Options: Conn		Connec	tor Options:	Color Options:			
Code	•	Code	Connector	Code	-		
1	RG-58	Α	TNC	WHT	White		
2	RG-174	C	SMA	BLK	Black		
3	RF-195	D	SMB				
		E	MCX				
		J	RP SMA				
		K	RP TNC				
(Other Configurations availab					itions available.)		

Specifications			
Frequency & Gain (peak)*: Cable 1 & 2 (LTE)	694-960 MHz, 3 dBi 1710-2170 MHz, 4 dBi	Radome Material: Operating Temperature:	ASA UV-Stable Plastic -40 to +80° C
Cable 3 & 4 (WiFi)	2400-2500 MHz, 5 dBi 4900-6000 MHz, 5 dBi	Connectors:	SMA Plugs - Standard, Others Available
Cable 5 (GPS) VSWR*:	1575.42 +/- 2 MHz, 26 dB, 5 dBi 2:1 VSWR over Range	Cable 1-4 Cable 5 (GPS)	Separate RF-195,15 ft (4.5m) RG-174, 15 ft (4.5 meters)
Impedance: Maximum Power:	50 Ohm Nominal	Mounting:	7/8" (22mm) Dia. Feed through
Case: Surface Mount	5.50" Dia. x 2.38" High		3/4"(19mm)Long Thread for up to 1/2" (12mm)thick surface
Surface Mount	(140mm x 60.4mm)	Shock & Vibration:	IEEE1478, EN61373, MIL-810G, TIA 329.2-C
Magnet Mount	5.50" Dia. x 2.78" High (140mm x 70.6mm)	Water Ingress:	IP67
			*Measured on 1' ground with 1' cable