



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

- 5-cables, multi-band antenna for Global LTE MIMO, WiFi MIMO & GPS
- Single mounting hole; easier installation
- Covers all LTE frequencies worldwide
- Mechanically sound, meets Industrial & Military specs

Mobile Mark's LTM502 Series antenna contains five separate antennas, all in one compact antenna housing: two broadband LTE/Cellular antennas, two dual-band WiFi antennas, and one GPS antenna. The LTM502 differs from the LTM501 in that the broadband LTE/Cellular element covers all LTE frequencies worldwide, from 694-3700 MHz.

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. 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 any Global 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**

LTM502- [ ]

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: LTM502-3C3C3J3J2C-WHT-180  
Specify "MLTM" instead of "LTM" for Magnet Mount Option

<b>Cable Options:</b>		<b>Connector Options:</b>		<b>Color Options:</b>	
<b>Code</b>	<b>Cable</b>	<b>Code</b>	<b>Connector</b>	<b>Code</b>	<b>Color</b>
1	RG-58	A	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 available.)

Specifications			
Frequency & Gain (peak)*:		Radome Material:	ASA UV-Stable Plastic
Cable 1 & 2 (LTE)	694-960 MHz, 3 dBi	Operating Temperature:	-40 to +80° C
Cable 3 & 4 (WiFi)	1710-3700 MHz, 4 dBi	Connectors:	SMA Plugs - Standard, Others Available
Cable 5 (GPS)	2400-2500 MHz, 5 dBi	Cable:	Separate RF-195, 15 ft (4.5m)
VSWR*:	4900-6000 MHz, 5 dBi	Cable 5 (GPS)	RG-174, 15 ft (4.5 meters)
Impedance:	1575.42 +/- 2 MHz, 26 dB, 5 dBi	Mounting:	7/8" (22mm) Dia. Feed through
Maximum Power:	2:1 VSWR over Range	Shock & Vibration:	3/4" (19mm) Long Thread for up to 1/2" (13mm) thick surface
Case:	50 Ohm Nominal	Water Ingress:	IEEE1478, EN61373, MIL-810G, TIA 329.2-C
Surface Mount	10 Watts		IP67
Magnet Mount	5.50" Dia. x 2.38" High (140mm x 60.4mm)		
	5.50" Dia. x 2.78" High (140mm x 70.6mm)		

\*Measured on 1' ground with 1' cable