



LTM501 multi-band 5-cable LTE MIMO, WiFi MIMO & GPS

- 5-cables: two for Cellular/LTE, two for WiFi, and one for GPS
- Cellular/LTE elements used for either Diversity or MIMO
- Does not require a ground plane

Mobile Mark's LTM501 Series Multiband Diversity/MIMO 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. 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. For systems that require Global LTE up to 3700 MHz, the 5-cable LTM502 is recommended.

Measuring 5.5" (140mm) in diameter with a low profile of 2.38" (60.4mm), LTM series antennas take up significantly less space than multiple antennas. The radome is available in either black or white. The antennas are available in either surface mount or mag-mount models. The antennas can also be configured for combined GPS & Glonass use.

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: LTM501-3C3C3C3C2C-WHT-180
 MLTM501-3C3C3C3C2C-BLK-180 (mag-mount option)

Specify "LTMG" or "MLTMG" instead of "LTM" or "MLTM" for GPS/Glonass combination antenna.

Cable Options:		Connector Options:		Color Options:	
Code	Cable	Code	Connector	Code	Color
1	RG-58	A	TNC	WHT	White
2	RG-174	C	SMA	BLK	Black
3	LL-195	J	RP SMA		

(Other Configurations available.)

Specifications			
Frequency & Gain (peak)*:			
Cable 1 & 2 (Cellular/LTE)	694-960 MHz, 3 dBi	1710-2170 MHz, 4 dBi	
Cable 3 & 4 (WiFi)	2.4-2.5 & 4.9-6.0 GHz, 5 dBi		
Cable 5 (GPS)	1575.42 +/- 2 MHz, 26 dB, 5 dBi		
GPS & Glonass Option:	1575 MHz & 1612 MHz		
VSWR*:	2:1 VSWR over Range		
Impedance:	50 Ohm Nominal		
Maximum Power:	10 Watts		
Case:			
Surface Mount	5.50" Dia. x 2.38" High (140mm x 60.4mm)		
Magnet Mount	5.50" Dia. x 2.78" High (140mm x 70.6mm)		
Radome Material:	ASA UV-Stable Plastic		
Operating Temperature:	-40° to +80° C		
Connectors:	SMA Plugs standard		
Cable:			
Cable 1-4	Separate LL-195, 15 ft (4.5m)		
Cable 5 (GPS)	RG-174, 15 ft (4.5 meters)		
LTM Mounting:	7/8" (22mm) Dia. Feed thru 3/4" (19mm) long thread for up to 1/2" (12mm) thick surface		
MLTM Mounting:	Magnet mount		
Shock & Vibration:	IEEE1478, EN61373, MIL-810G, TIA 329.2-C		
Water Ingress:	IP67		

*Measured on 1' (30cm) ground with 1' (30cm) cable