



## LTM301 multi-band 3-cable Cellular/LTE MIMO & GPS

- 3-cables: two Cellular/LTE and one GPS
- Cellular/LTE elements used for either Diversity or MIMO
- Field proven design; dependable link
- Mechanically sound, meets Industrial & Military specs

Mobile Mark's LTM301 Series Multiband Diversity/MIMO antenna contains three separate antennas, all in one compact antenna housing: two identical Cellular & LTE 700 MHz elements and one GPS element.

LTE MIMO (multiple-input-multiple-output) modems offer greater speed and capacity than earlier generations of modems, but in order to ensure optimum performance the LTE MIMO system needs multiple antennas on both the transmission and receive ends.

This 3-element LTM antenna is designed for fleet management systems that combine a GPS receiver with a 2-element LTE MIMO modem. For fleet management systems that add in a WiFi modem, the LTM401 (for WiFi MIMO modems) and the LTM301 (for non-MIMO WiFi modems) are 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**

LTM301------

Cable/Connector 1

Cable/Connector 2

Cable/Connector 3

Color

Cable Length in Inches (eg. 12 or 180)

Example: LTM301-3C3C2C-WHT-180  
MLTM301-3C3C2C-BLK-180 (mag-mount option)

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

<u>Cable Options:</u>	<u>Connector Options:</u>	<u>Color Options:</u>
<u>Code</u> <u>Cable</u>	<u>Code</u> <u>Connector</u>	<u>Code</u> <u>Color</u>
1     RG-58	A     TNC	WHT   White
2     RG-174	C     SMA	BLK   Black
3     RF-195	J     RP SMA	
	K     RP TNC	

(Other Configurations available.)

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

\*Measured on 1' ground with 1' cable