



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
- Mechanically sound, meets Industrial & Military specs

Mobile Mark's LTM301 Series Multiband Diversity/MIMO antenna is designed for modems that combine a GPS receiver with a 2-element LTE MIMO modem. The LTM301 contains three separate antennas, all in one compact antenna housing: two identical Cellular & LTE 700 MHz elements and one GPS.

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.

Measuring 5.5" (14cm) in diameter with a low profile of 2.38" (6.04cm), LTM series antennas take up significantly less space than multiple antennas.

The LTM301 antenna does not require a groundplane to meet its specifications. It can even be mounted on fiberglass roofs.

The antennas are available in either black or white, and can be configured as 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 LL-195	J RP SMA	

(Other Configurations available.)

Specifications			
Frequency & Gain (peak)*:		Radome Material:	ASA UV-Stable Plastic
Cable 1 & 2 (Cellular/LTE)	694-960 MHz, 3 dBi & 1710-2170 MHz, 4 dBi	Operating Temperature:	-40° to +80° C
Cable 3 (GPS or Optional GPS/Glonass)	1575 MHz 1575 & 1612 MHz	Connectors:	SMA Plugs standard, other connectors available
LNA:	26 dB/2 dB max N. F.	Cable 1-2 (Cellular/LTE)	Separate LL-195, 15 ft (4.5 m) standard
GPS/Glonass antenna gain:	5 dBic	Cable 3 (GPS or GPS/Glonass)	RG-174, 15 ft (4.5 m)
Bias:	3.3/5 VDC	LTM Mounting:	7/8" (2.2cm) Dia. Feed through 3/4" (1.9cm) Long Thread for up to 1/2" (1.2 cm) thick surface
VSWR*:	2:1 VSWR over Range	MLTM Mounting:	Magnet mount
Impedance:	50 Ohm Nominal	Groundplane:	None required
Maximum Power:	10 Watts	Shock & Vibration:	IEEE1478, EN61373, MIL-810G, TIA 329.2-C
Surface Mount dimensions	5.50" Dia. x 2.38" High (14 cm x 6.04 cm)	Water Ingress:	IP67
Magnet Mount dimensions	5.50" Dia. x 2.78" High (14 cm x 7.06 cm)		

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