



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

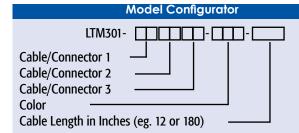
Mobile Mark's LTM301 Series Multiband Diversity/MIMO antenna is designed for modems that combine a GPS receiver with a 2-element LTE MIMO modem. The LTM301 contains three separate antennas, all in one compact antenna housing: two identical Cellular & LTE 700 MHz elements and one GPS.

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.



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.

Cable Options:		Connector Options:		Color Options:	
<u>Code</u>	<u>Cable</u>	<u>Code</u>	Connector	<u>Code</u>	<u>Color</u>
1	RG-58	Α	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)

Cable 3 (GPS or Optional GPS/Glonass)

LNA:

GPS/Glonass antenna gain:

Bias:3.3/5 VDC VSWR*:

Impedance: Maximum Power:

Maximum Power:

Surface Mount dimensions

Magnet Mount dimensions

694-960 MHz, 3 dBi & 1710-2170 MHz, 4 dBi 1575 MHz 1575 & 1602 MHz

26 dB/2 dB max N. F. 5 dBic

2:1 VSWR over Range 50 Ohm Nominal 10 Watts

5.50" Dia. x 2.38" High (14 cm x 6.04 cm) 5.50" Dia. x 2.78" High (14 cm x 7.06 cm) Radome Material: Operating Temperature: Connectors:

Connectors.

Cable 1-2 (Cellular/LTE)

Cable 3 (GPS or GPS/Glonass) LTM Mounting:

MLTM Mounting: Groundplane: Shock & Vibration:

Water Ingress:

ASA UV-Stable Plastic -40° to +80° C

SMA Plugs standard, other connectors available Separate LL-195,15 ft 4.5 m) standard RG-174, 15 ft (4.5 m)

7/8" (2.2cm) Dia. Feed through 3/4"(1.9cm)Long Thread for up to 1/2" (1.2 cm) thick surface

Magnet mount
None required

IEEE1478, EN61373, MIL-810G,

TIA 329.2-C IP67

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