



Multi-band Diversity/MIMO Antenna, LTE & GPS

- 3-cables, multi-band antenna for LTE MIMO and GPS
- Single mounting hole; easier installation
- Field proven design; dependable link
- Mechanically sound, meets Industrial & Military specs

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

LTE 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, 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), 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

LTM301- [] [] [] [] - [] [] [] - []

Cable/Connector 1
Cable/Connector 2
Cable/Connector 3
Color
Cable Length in Inches (eg. 12 or 180)

Example: LTM301-3A3A2C-WHT-180
Specify "MLTM" instead of "LTM" for Magnet Mount Option

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	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 (GPS)	1710-2170 MHz, 4 dBi	Connectors:	SMA Plugs standard, Others Available
	1575.42 +/- 2 MHz, 26 dB, 5 dBi	Cable:	
VSWR*:	2:1 VSWR over Range	Cable 1-2	Separate RF-195, 15 ft (4.5 meters) standard
Impedance:	50 Ohm Nominal	Cable 3 (GPS)	RG-174, 15 ft (4.5 meters)
Maximum Power:	10 Watts	Mounting:	7/8" (22mm) Dia. Feed through 3/4" (19mm) Long Thread for up to 1/2" (12mm) thick surface
Case:		Shock & Vibration:	IEEE1478, EN61373, MIL-810G, TIA 329.2-C
Surface Mount	5.50" Dia. x 2.38" High (140mm x 60.4mm)	Water Ingress:	IP67
Magnet Mount	5.50" Dia. x 2.78" High (140mm x 70.6mm)		

*Measured on 1' ground with 1' cable