



LTM301  
Antenna



## 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

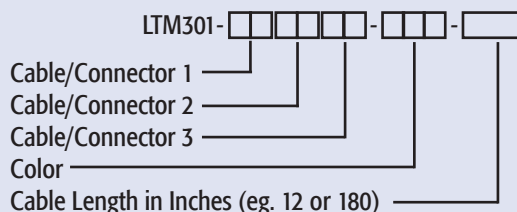
Mobile Mark's LTM301 Series antenna contains three separate antennas, all in one compact antenna housing: two identical LTE 700 MHz & Cellular antennas and one GPS antenna.

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), 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



Example: LTM301-3A3A2C-WHT-180

#### Cable Options:

| Code | Cable  |
|------|--------|
| 1    | RG-58  |
| 2    | RG-174 |
| 3    | RF-195 |

#### Connector Options:

| Code | Connector |
|------|-----------|
| A    | TNC       |
| C    | SMA       |
| D    | SMB       |
| E    | MCX       |
| J    | RP SMA    |
| K    | RP TNC    |

#### Color Options:

| Code | Color |
|------|-------|
| WHT  | White |
| BLK  | Black |

(Other Configurations available.)

### Specifications

#### Frequency & Gain (peak)\*:

|               |                                            |
|---------------|--------------------------------------------|
| Cable 1 (LTE) | 694-960 MHz, 3 dBi<br>1710-2170 MHz, 4 dBi |
| Cable 2 (LTE) | 694-960 MHz, 3 dBi<br>1710-2170 MHz, 4 dBi |
| Cable 3 (GPS) | 1575.42 +/- 2 MHz, 26 dB, 5 dBi            |

|                |                                            |
|----------------|--------------------------------------------|
| VSWR*:         | 2:1 VSWR over Range                        |
| Impedance:     | 50 Ohm Nominal                             |
| Maximum Power: | 10 Watts                                   |
| Case:          | 5.5" Dia. x 2.38" High<br>(140mm x 60.4mm) |

|                        |                       |
|------------------------|-----------------------|
| Radome Material:       | ASA UV-Stable Plastic |
| Operating Temperature: | -40 to +80° C         |

#### Connectors:

SMA Plugs standard,  
Others Available

#### Cable:

Cable 1-2

Separate RF-195, 15 ft (4.5 meters) standard

Cable 3 (GPS)

#### Mounting:

RG-174, 15 ft (4.5 meters)  
7/8" (22mm) Dia. Feed through  
3/4" (19mm) Long Thread for  
up to 1/2" (12mm) thick surface  
IEEE1478, EN61373, MIL-810G,  
TIA 329.2-C  
IP67

#### Shock & Vibration:

#### Water Ingress:

\*Measured on 1' ground with 1' cable