US Office: Tel: 800.648.2800 or +1.847.671.6690
UK Office: Tel: (+44) 1543 459 555
www.mobilemark.com

MobileMark antenna solutions

LTM502 Antenna

Black Case

Mag-Mount

# LTM502 5-cable: Global LTE MIMO, WiFi MIMO & GPS

- 5-cables: two for Global Cellular/LTE, two for WiFi, and one for GPS
- Covers all Cellular & LTE frequencies worldwide, from 694 MHz to 3700 MHz
- WiFi elements can be used for WiFi MIMO or for separate WiFi modems

Mobile Mark's LTM502 Series Multiband Diversity/MIMO antenna contains five separate antennas, all in one compact antenna housing: two broadband LTE/Cellular antennas, two dual-band WiFi antennas, and one GPS antenna. The LTM502 differs from the LTM501 in that the broadband LTE/Cellular element covers all LTE frequencies worldwide, from 694-3700 MHz.

Both WiFi and LTE MIMO (multiple-input-multiple-output) modems offer greater speed and capacity than earlier generations of modems. To ensure optimum performance, the systems need multiple antennas on both the transmission and receive ends.

With 5-elements, the new LTM502 antenna is ideal for fleet management systems that combine GPS with both any Global LTE MIMO modem as well as WiFi MIMO modem.

Measuring 5.5" (140mm) in diameter with a low profile of 2.38", the 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. The antennas are available in either surface-mount or mag-mount and can also be configured for combined GPS & Glonass use.

## Model Configurator

LTM502-□□□□□□□□-□□□-□□□□

- Cable/Connector 1
- Cable/Connector 2
- Cable/Connector 3
- Cable/Connector 4
- Cable/Connector 5
- Color
- Cable Length in Inches (eg. 12 or 180)

Example: LTM502-3C3C3C3C2C-WHT-180
MLTM502-3C3C3C3C2C-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: | |
|---|---|---|---|---|---|
| Code | Cable | Code | Connector | Code | Color |
| 1 | RG-58 | A | TNC | WHT | White |
| 2 | RG-174 | C | SMA | BLK | Black |
| 3 | RF-195 | J | RP SMA | | |

(Other Configurations available.)

## Specifications

| | |
|---|---|
| Frequency & Gain (peak)*: | |
| Cable 1 & 2 (Global LTE) | 694-960 MHz, 3 dBi & 1710-3700 MHz, 4 dBi |
| Cable 3 & 4 (WiFi) | 2.4-2.5 & 4.9-6.0 GHz, 5 dBi |
| Cable 5 (GPS) | 1575.42 +/- 2 MHz, 26 dB, 5 dBi |
| VSWR*: | 2:1 VSWR over Range |
| Impedance: | 50 Ohm Nominal |
| Maximum Power: | 10 Watts |
| GPS | |
| Amplifier Bias: | 2.7 to 5 VDC |
| Noise Figure: | 2.0 dB max, 1.7 dB typical |
| Current: | 20 mA max, 10 mA typical |
| Case size: | |
| Surface Mount | 5.50" Dia. x 2.38" High (140mm x 60.4mm) |
| Magnet Mount | 5.50" Dia. x 2.78" High (140mm x 70.6mm) |

| | |
|---|---|
| Radome Material: | ASA UV-Stable Plastic |
| Operating Temperature: | -40° to +80° C |
| Connectors: | SMA Plugs standard |
| Cable: | |
| Cable 1-4 | Separate RF-195,15 ft (4.5m) |
| Cable 5 (GPS) | RG-174, 15 ft (4.5 meters) |
| LTM Mounting: | 7/8" (22mm) Dia. Feed through 3/4"(19mm)Long Thread for up to 1/2" (13mm)thick surface |
| MLTM Mounting: | Magnet mount |
| Shock & Vibration: | IEEE1478, EN61373, MIL-810G, TIA 329.2-C |
| Water Ingress: | IP67 |

*Measured on 1' ground with 1' cable



Specifications subject to change without notice (10/2016)