MobileMark
antenna solutions

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Multi-band Diversity/MIMO Antenna, LTE, WiFi & GPS

Black Case

LTM402 Antenna

Mag-Mount

- 4-cables, multi-band antenna for Global LTE MIMO, WiFi and GPS
- Single mounting hole; easier installation
- Covers all LTE frequencies worldwide
- Mechanically sound, meets Industrial & Military specs

Mobile Mark's LTM402 Series antenna contains four separate antennas, all in one compact antenna housing: two Global LTE/Cellular antennas, one 2.4/5 GHz dual-band WiFi antenna, and one GPS antenna. The LTM402 differes from the LTM401 in that it covers all LTE systems worldwide from 694-3700 MHz.

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 systems need multiple antennas on both the transmission and receive ends.

This 4-element LTM antenna is designed for fleet management systems that combine GPS with a single element (non-MIMO) WiFi modem as well as a 2-element LTE MIMO modem. For systems that require MIMO on both bands, the 5-cable LTM502 is 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

LTM402-□□□□□□□-□□□-□□□□

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

Example: LTM402-3C3C3J2C-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)*:	
Cable 1 & 2 (LTE)	694-960 MHz, 3 dBi 1710-3700 MHz, 4 dBi
Cable 3 (WiFi)	2400-2500 MHz, 5 dBi 4900-6000 MHz, 5 dBi
Cable 4 (GPS)	1575.42 +/- 2 MHz, 26 dB, 5 dBi
VSWR*:	2:1 VSWR over Range
Impedance:	50 Ohm Nominal
Maximum Power:	10 Watts
Case:	
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, Others Available
Cable:	
Cable 1-3	Separate RF-195,15 ft (4.5 meters) standard
Cable 4 (GPS)	RG-174, 15 ft (4.5 meters)
Mounting:	7/8" (22mm) Dia. Feed through 3/4"(19mm)Long Thread for up to 1/2" (12mm)thick surface
Shock & Vibration:	IEEE1478, EN61373, MIL-810G, TIA 329.2-C
Water Ingress:	IP67

*Measured on 1' ground with 1' cable