MobileMark
antenna solutions

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

LTM501
Antenna

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

Mobile Mark's LTM501 Series antenna contains five separate antennas, all in one compact antenna housing: two LTE 700 MHz & Cellular antennas, two dual-band WiFi antennas, and one GPS antenna.

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.

This new MIMO technology is used in several frequency bands, initially for 802.11n WiFi bands and more recently for LTE in the 700 MHz band. To ensure optimum performance, the systems need multiple antennas on both the transmission and receive ends.

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

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

LTM501-□□□□□□□□-□□□-□

- 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: LTM501-3A3A3A3A2C-WHT-180

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 (LTE)	694-960 MHz, 3 dBi 1710-2170 MHz, 4 dBi
Cable 2 (LTE)	694-960 MHz, 3 dBi 1710-2170 MHz, 4 dBi
Cable 3 (WiFi)	2400-2500 MHz, 5 dBi 4900-6000 MHz, 5 dBi
Cable 4 (WiFi)	2400-2500 MHz, 5 dBi 4900-6000 MHz, 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
Case:	5.50" Dia. x 2.38" High (140mm x 60.4mm)

Radome Material:	ASA UV-Stable Plastic
Operating Temperature:	-40 to +80° C
Connectors:	SMA Plugs - Standard, Others Available
Cable:	
Cable 1-4	Separate RF-195,15 ft (4.5m)
Cable 5 (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