



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.

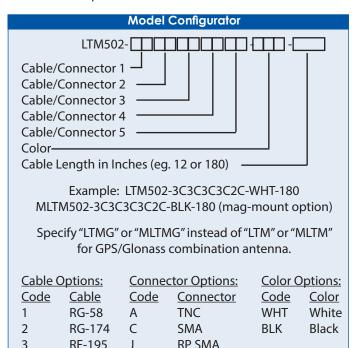
Both WiFi and LTE MIMO (multiple-input-multiple-output) modems offer greater speed and capacity than earlier generations of modems. To ensure optimum performance, the systems need multiple antennas on both the transmission and receive ends.

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.

## 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



(Other Configurations available.)

Specifications			
Frequency & Gain (peak)*:		Radome Material:	ASA UV-Stable Plastic
Cable 1 & 2 (Global LTE)	694-960 MHz, 3 dBi &		
	1710-3700 MHz, 4 dBi	Operating Temperature:	-40° to +80° C
Cable 3 & 4 (WiFi)	2.4-2.5 & 4.9-6.0 GHz, 5 dBi	Connectors:	SMA Plugs standard
Cable 5 (GPS)	1575.42 +/- 2 MHz, 26 dB, 5 dBi	Cable:	
VSWR*:	2:1 VSWR over Range	Cable 1-4	Separate RF-195,15 ft (4.5m)
Impedance:	50 Ohm Nominal	Cable 5 (GPS)	RG-174, 15 ft (4.5 meters)
Maximum Power:	10 Watts		
GPS		LTM Mounting:	7/8" (22mm) Dia. Feed through
Amplifier Bias:	2.7 to 5 VDC		3/4"(19mm)Long Thread for
Noise Figure:	2.0 dB max, 1.7 dB typical		up to 1/2" (13mm)thick surface
Current:	20 mA max, 10 mA typical	MLTM Mounting:	Magnet mount
Case size:		Shock & Vibration:	IEEE1478, EN61373, MIL-810G,
Surface Mount	5.50" Dia. x 2.38" High		TIA 329.2-C
	(140mm x 60.4mm)	Water Ingress:	IP67
Magnet Mount	5.50" Dia. x 2.78" High		*Measured on 1' ground with 1' cable
	(140mm x 70.6mm)		