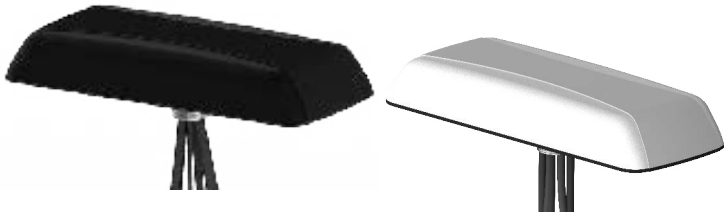


LLP402 Antenna



MLP - Mag Mount



Mobile Mark's LLP402 Series Multiband Diversity/MIMO antenna contains four separate antenna elements, all in one compact antenna housing: two broadband LTE/Cellular antennas, one WiFi antennas, and one GPS antenna. The LLP402 covers Cellular LTE frequencies from 694-3700 MHz.

MIMO (multiple-input-multiple-output) modems for both WiFi and LTE/Cellular 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. To ensure optimum performance, the systems need multiple antennas on both the transmission and receive ends.

This 4-element LLP antenna is designed for fleet management modems that combine GPS with a single (non-MIMO) WiFi element and two LTE MIMO elements.

Measuring 9" (22.8cm) x 3.5" (8.9cm) with a low profile of 1.25" (3.18cm), the LLP402 series antennas take up significantly less space than multiple antennas. The radome is available in black and white. The antennas can also be configured for combined GPS & Glonass use.

This antenna is available as a mag-mount.

## LLP402 Low Profile, multi-band 4-cable LTE, WIFI & GPS

- 4-cables: two for Cellular & LTE, one for WiFi, and one for GPS
- Designed for fleet management modems
- Available with GPS or with combination GPS/Glonass

**Model Configurator**

LLP402 - [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] - [ ]

Cable/Conn 1 [ ]  
 Cable/Conn 2 [ ]  
 Cable/Conn 3 [ ]  
 Cable/Conn 4 [ ]  
 Color [ ]  
 Cable Length in Inches (eg. 12 or 180) [ ]

Example: LLP402-3C3C3C2C-BLK-180  
 MLP402-3C3C3C2C-BLK-180 (Mag mount)

Specify "LLPG" instead of "LLP" for GPS/Glonass combination antennas

Cable Options:		Connector Options:		Color Options:	
Code	Cable	Code	Connector	Code	Color
2	RG-174	C	SMA	BLK	Black
3	LL-195	J	RP SMA	WHT	White

(Other Configurations available.)

Specifications			
Frequency & Gain (peak):		Magnet Mount	9" x 3.5" x 1.65"
Cable 1 & 2 (Global LTE)	694-960 MHz, 0-3 dBi 1710-3700 MHz, 4 dBi	Radome Material:	(22.8cm x 8.9cm x 4.6cm)
Cable 3 (WiFi)	2.4-2.5 & 4.9-6.0 GHz, 4 & 5 dBi	Operating Temperature:	ASA UV-Stable Plastic
Cable 4 (GPS)	1575 MHz, 26 dB, 5 dBi	Connectors, standard:	-40° to +80° C
GPS & Glonass option	1575 MHz & 1602 MHz	Cable:	SMA Plugs (male) standard
VSWR:	2:1 VSWR over Range	Cable 1-3	Separate LL-195, 15 ft (4.5m)
Impedance:	50 Ohm Nominal	Cable 4 (GPS and GPS/Glonass)	RG-174, 15 ft (4.5 meters)
Maximum Power:	10 Watts	Mounting:	Thru hole, ground plane dep.
GPS		MLP Mount:	Mag Mount
Amplifier Bias:	2.7 to 5 VDC	Shock & Vibration:	IEEE1478, EN61373, MIL-801G, TIA 329.2-C
Noise Figure:	2.0 dB max, 1.7 dB typical	Water Ingress:	IP67
Current:	20 mA max, 10 mA typical		
Case size:	9" x 3.5" x 1.25" (22.8cm x 8.9cm x 3.18cm)		

\*Measured on 1'(30cm) ground with 1'(30cm) cable