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## LLP602



Mobile Mark's LLP602 Series Multiband Diversity/MIMO antenna contains six separate antenna elements, all in one compact antenna housing: two broadband LTE/Cellular antennas, three WiFi antennas, and one GPS antenna. The LLP602 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.

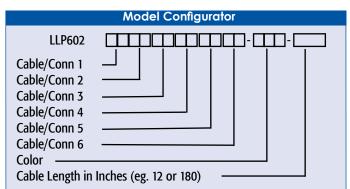
With 6-elements, the new LLP602 antenna is ideal for fleet management systems that combine GPS with both an LTE 2x MIMO modem as well as a WiFi 3x MIMO Modem.

Measuring 9" (22.8cm) x 3.5" (8.9cm) with a low profile of 1.25" (3.18cm), the LLP602 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 avalible as a mag-mount.

## LLP602 Low Profile 6-cable LTE, WiFi & GPS

- 6-cables: two for Cellular & LTE, three for WiFi, and one for GPS
- WiFi elements can be used for WiFi MIMO or for separate WiFi modems
- Available with GPS or with combination GPS/Glonass



## Example: LLP602-3C3C3J3J3J2C-WHT-180 MLP602-3C3C3J3J3J2C-WHT-180 (Mag mount)

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

Cable Options:		Connec	tor Options:	Color Options:	
<u>Code</u>	<u>Cable</u>	<u>Code</u>	<u>Connector</u>	Code	<u>Color</u>
2	RG-174	С	SMA	WHT	White
3	LL-195	J	RP SMA	BLK	Black
		А	TNC		

Specifications			
Specifications Frequency & Gain (peak)*: Cable 1 & 2 (Cellular) Cable 3, 4 & 5 (WiFi) Cable 6 (GPS) GPS & Glonass option	694-960 MHz, 0-3 dBi 1710-3700 MHz, 4 dBi 2.4-2.5 & 5-6 GHz, 4 & 5 dBi 1575 MHz, 26 dB, 5 dBi 1575 MHz & 1602 MHz	Magnet Mount Radome Material: Operating Temperature: Connectors, standard: Cable:	9" x 3.5" x 1.65" (22.8cm x 8.9cm x 4.6cm) ASA UV-Stable Plastic -40° to +80° C SMA Plugs (male) standard
VSWR*:	2:1 VSWR over Range	Cable 1-5	Separate LL-195, 15 ft (4.5m)
Impedance:	50 Ohm Nominal	Cable 6 (GPS)	RG-174, 15 ft (4.5 meters)
Maximum Power:	10 Watts	× ,	· 、 ,
GPS		Mounting:	Thru hole, ground plane dep.
Amplifier Bias:	2.7 to 5 VDC	MLP Mount:	Mag Mount
Noise Figure:	2.0 dB max, 1.7 dB typical	Shock & Vibration:	IEEE1478, EN 61373, MIL-810G
Current:	20 mA max, 10 mA typical		TIA329.2-C
Case size:	9"x 3.5" x 1.25" (22.8cm x 8.9cm x 3.18cm)	Water Ingress:	IP67
		*Measured on 1' (30cm) ground with 1'(30cm)	