US Office: Tel: 800.648.2800 or +1.847.671.6690 UK Office: Tel: (+44) 1543 459 555 www.mobilemark.com





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

MIMO (multiple-input-multiple-output) modems for bo WiFi and LTE/Cellular offer greater speed and capacity the earlier generations of modems. They achieve this by sen RF signals on multiple antenna elements to maximize th amount of information transmitted and received. To en optimum performance, the systems need multiple ante on both the transmission and receive ends.

This 4-element LLP antenna is designed for fleet manag ment systems that combine GPS with a single element MIMO) WiFi modem as well as a 2-element LTE MIMO me

Measuring 9.00" (22.8cm) x 3.50" (8.9cm) in diameter wit low profile of 1.25" (31.8mm), the LL4602 series antenna take up significantly less space than multiple antennas. radome is available in black and white . The antennas ca also be configured for combined GPS & Glonass use.

## This antenna is not avaliable as a mag-mount. **Specifications**

Frequency & Gain (peak)\*: Cable 1 & 2 (Cellular)

Cable 3 (WiFi)

Cable 4 (GPS) GPS & Glonass option

VSWR\*:

GPS

Impedance:

Maximum Power:

Current:

Case size:

**Amplifier Bias:** 

Noise Figure:

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

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

	Model Configurator
iband Diversity/MIMO ntenna elements, all in one proadband LTE/Cellular an- ne GPS antenna. The LLP402 om 694-3700 MHz. utput) modems for both r speed and capacity than ney achieve this by sending ements to maximize the	LLP402 - Cable/Conn 1 Cable/Conn 2 Cable/Conn 3 Cable/Conn 4 Color Cable Length in Inches (eg. 12 or 180)
ed and received. To ensure ms need multiple antennas eive ends.	Example: LLP402-3C3C3C2C-BLK-180
signed for fleet manage- with a single element (non- -element LTE MIMO modem.	Specify "G" instead of LLP402G for GPS/Glonass combination antenna.
8.9cm) in diameter with a LL4602 series antennas an multiple antennas. The vhite . The antennas can GPS & Glonass use.	Cable Options:Connector Options:Color Options:CodeCableCodeConnectorCodeColor2RG-174CSMABLKBlack3RF-195JRP SMAWHTWhite
mag-mount.	
694-960 MHz, 0-3 dBi 1710-3700 MHz, 4 dBi	Radome Material:ASA UV-Stable PlasticOperating Temperature:-40° to +80° C
2.4-2.5 & 4.9-6.0 GHz, 4 & 5 dBi 1575 MHz, 26 dB, 5 dBi 1575 MHz & 1612 MHz 2:1 VSWR over Range	Connectors, standard: SMA Plugs Cable: Cable 1-3 Separate RF-195, 15 ft (4.5m) Cable 4 (GPS and RG-174, 15 ft (4.5 meters) GPS/Glonass)
50 Ohm Nominal 10 Watts	Mounting: Through hole, ground plane dependent
2.7 to 5 VDC 2.0 dB max, 1.7 dB typical 20 mA max, 10 mA typical 9.00"x 3.50" x 1.25"	Shock & Vibration: IEEE1478, EN61373, MIL-801G, TIA 329.2-C Water Ingress: IP67,
22.8cm x 8.9cm x 31.8mm	*Measured on 1' ground with 1' cable

Specifications subject to change without notice (03/2017)