

LLPG502

MULTIBAND SURFACE MOUNT ANTENNA

PRODUCT OVERVIEW

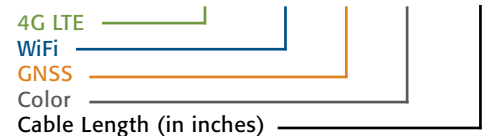
The 5-cable LLPG502 antennas include two 4G LTE antennas, two WiFi antennas, and one GNSS antenna. This provides MIMO (multiple-input-multiple-output) coverage for both Cellular and WiFi. The GNSS element operates on GPS, Galileo, Glonass, QZSS, or Beidou at 1561, 1575, & 1602 MHz.

This 4G LTE antenna covers: 694-960 & 1710-3700 MHz. In the US, this includes the CBRS (Citizens Broadband Radio Service) at 3.55-3.7 GHz. The WiFi 6 (802.11ax) element is backward compatible with earlier generations of the 802.11 protocol. If you are looking for a low-profile 4G Ready antenna, this is the solution you've been looking for!

The LLPG502 takes up less space than multiple antennas and is effective in applications where tall vehicles have specific height restrictions. Otherwise, it is used in Fixed Site Applications where vandalism is a risk. Visit our [eStore](#) to purchase an Antenna Online.



LLPG502-3C3C3C3C2C-BLK-180



Electrical Specifications

Frequency & Gain	4G LTE Cables 1 - 2	694 - 700 MHz, -1 dBi 700 - 730 MHz, 1 dBi 730 - 800 MHz, 2 dBi 800 - 960 MHz, 3 dBi 1710 - 3700 MHz, 4 dBi
	WiFi Cables 3 - 4	2.4-2.5 GHz, 4 dBi 4.9-6.0 GHz, 5 dBi
	GNSS Cable 5	1561, 1575, & 1602 MHz, LNA 26 dB, 5 dBi (RHCP)
VSWR	< 2.5:1 VSWR LTE (694 - 960 MHz) < 2:1 VSWR LTE (1710 - 3700 MHz) < 2:1 VSWR WiFi	
Impedance	50 Ohm Nominal	
Power Rating	10 Watts	
GNSS	Amplifier Bias Voltage	2.7 to 5 VDC
	Gain	26 dB, 5 dBi
	Current	20 mA max, 10 mA typical

Mechanical Specifications

Radome Material & Color	ASA UV-Inhibitive Plastic, Available in Black or White
Radome Dimension	9.00" (228 mm) x 3.50" (89 mm) x 1.25" (31.8 mm) in Height
Standard Connectors	SMA Plugs (Male)
Cables	15 Feet (4.5 m) Cables: LL-195 for LTE/5G & WiFi, RG-174 for GNSS, Other Lengths Available
Operating Temperature	-40° to +80° C
Mounting	Thru Hole, Ground Plane Dependent
Shock & Vibration	IEEE-1478, EN 61373, MIL-810G, TIA 329.2-C
Dust & Water Ingress	IP69K (Stud Mount, When Properly Mounted)
RoHS Compliant	Yes

HIGHLIGHTS:

- Multiband: 2x 4G LTE, 2x WiFi, 1x GNSS
- Covers CBRS at 3.55-3.7 GHz
- Low Profile
- Made-in-the-USA & UK

RELATED MODELS:

- LLP502 (GPS Model)
- LTMG502 (Same Freq, LTM Model)
- LLPG508 (5G/LTE Coverage)
- LTMWG944 (4x 5G/LTE, 4x WiFi 6E, 1x GNSS)
- MXFG502 (Same Freq, MaxFin Model)

COMMON APPLICATIONS:

- Advanced Multiband Modems
- Tall Vehicles with Height Restrictions
- Fixed Site with Vandalism Risks



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