

## LLPG402

### MULTIBAND SURFACE MOUNT ANTENNA

#### PRODUCT OVERVIEW

The 4-cable LLPG402 antennas include two 4G LTE antennas, one 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 LLPG402 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.

#### Electrical Specifications

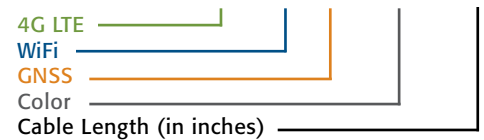
|                  |                        |   |
|------------------|------------------------|---|
| Frequency & Gain | 4G LTE<br>Cables 1 - 2 | 694 - 700 MHz, -1 dBi<br>700 - 730 MHz, 1 dBi<br>730 - 800 MHz, 2 dBi<br>800 - 960 MHz, 3 dBi<br>1710 - 3700 MHz, 4 dBi |
|                  | WiFi<br>Cable 3        | 2.4-2.5 GHz, 4 dBi<br>4.9-6.0 GHz, 5 dBi  |
|                  | GNSS<br>Cable 4        | 1561, 1575, & 1602 MHz,<br>LNA 26 dB, 5 dBi (RHCP)  |
|                  | VSWR                   | < 2.5:1 VSWR LTE (694 - 960 MHz)<br>< 2:1 VSWR LTE (1710 - 3700 MHz)<br>< 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,<br>Available in Black or White  |  |
| Radome Dimension        | 9.00" (228 mm) x 3.50" (89 mm) x<br>1.25" (31.8 mm) in Height                                    |  |
| Standard Connectors     | SMA Plugs (Male)   |  |
| Cables                  | 15 Feet (4.5 m) Cables:<br>LL-195 for LTE/5G & WiFi,<br>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  |  |



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#### HIGHLIGHTS:

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

#### RELATED MODELS:

- LLP402 (GPS Model)
- LTMG402 (Same Freq, LTM Model)
- LLPG408 ( 5G/LTE Coverage )
- LTMWG942 (4x 5G/LTE, 2x WiFi 6E, 1x GNSS)
- LTMWG941 (4x 5G/LTE, 1x WiFi 6E, 1x GNSS)
- MXFG402 (Same Freq, MaxFin Model)

#### COMMON APPLICATIONS:

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



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