

LLPG508

MULTIBAND SURFACE MOUNT ANTENNA

PRODUCT OVERVIEW

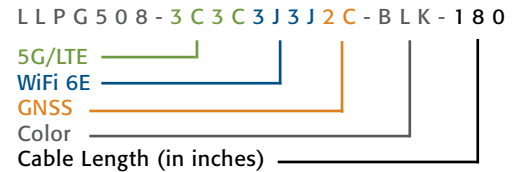
The LLPG508 (2x Global 5G Sub-6, 2x WiFi 6E, 1x GNSS) antenna includes two Global 5G Sub-6 antennas, two WiFi 6E antennas, and one GNSS antenna. This provides MIMO (multiple-input-multiple-output) coverage for both Cellular and WiFi. The GNSS element operates on GPS, Galileo, Glonass, QZSS, and Beidou at 1561, 1575, & 1602 MHz.

This 5G Sub-6 antenna covers: 617-960 & 1710-6000 MHz. In the US, this includes the CBRS (Citizens Broadband Radio Service) at 3.55-3.7 GHz. The WiFi 6E (coverage up to 7.125 GHz) element is backward compatible with earlier generations of the 802.11 protocols.

The LLPG508 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.

Electrical Specifications		
Frequency & Gain	5G/LTE Cables 1 - 2	617 - 700 MHz, 1 dBi 700 - 960 MHz, 3 dBi 1700 - 2700 MHz, 4 dBi 3400 - 4200 MHz, 6 dBi 4900 - 6000 MHz, 6 dBi
	WiFi 6E Cables 3 - 4	2.4-2.5 GHz, 4 dBi 4.9-7.2 GHz, 5 dBi
	GNSS Cable 5	1561, 1575, & 1602 MHz, LNA 26 dB, 5 dBi (RHCP)
VSWR	< 2.5:1 VSWR	
Impedance	50 Ohm Nominal	
Power Rating	10 Watts	
GNSS	Amplifier Gain & Bias Voltage	26 dB, 5 dBi 2.7 to 5 VDC
	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 Mag-Mount Option: 1.65" (46 mm) Height
Standard Connectors	3x SMA Plug (Male) for 5G/LTE and GNSS 2x Rev Pol SMA Plug (Male) for WiFi 6E
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	Stud Mount - 7/8" Dia. (22.22 mm) feed through. 3/4" lg. (19 mm) thread Thru Hole, Ground Plane Dependent Mag-Mount Option Available
Shock & Vibration	IEEE-1478, EN 61373, MIL-810G, TIA 329.2-C
Water Ingress	IP67 (When Properly Mounted)
RoHS Compliant	Yes



HIGHLIGHTS:

- Multiband: 2x 5G Sub-6, 2x WiFi 6E, 1x GNSS
- Entire C-Band Included
- Low Profile
- Made-in-the-USA & UK

RELATED MODELS:

- LLP508 (GPS Only Model)
- MLLPG508 (Mag-Mount Option)
- MXFG508 (Low Profile, Same Elements)

COMMON APPLICATIONS:

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



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