

## PR-LTMG508

PASSENGER RAIL ANTENNA (NFPA-130)

### PRODUCT OVERVIEW

This multi-band antenna, PR-LTMG508, meets rail industry standard EN 50155 environmental and NFPA-130 fire safety requirements. Rail compliant conduit support is available as an option.

The 5-cable PR-LTMG508 passenger rail antennas include 2x Global 5G Sub-6 antennas, 2x WiFi 6E antennas, and a GNSS antenna. This provides MIMO (multiple-input-multiple-output) coverage for both Cellular and WiFi.

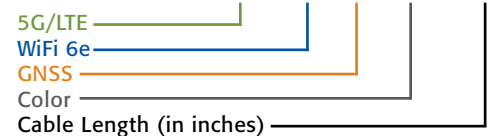
This 5G Sub-6 antenna covers: 617-960 & 1710-7200 MHz. The WiFi 6E (802.11ax) element covers up to 7.125 GHz and is backward compatible with earlier generations of the 802.11 protocol. The GNSS element operates on GPS, Galileo, Glonass, QZSS, or Beidou at 1561, 1575, & 1602 MHz. Visit our [eStore](#) to purchase an Antenna online.

Electrical Specifications		
Frequency & Gain	5G/LTE Cables 1 & 2	617 - 960 MHz, 3 dBi 1710 - 6000 MHz, 4 dBi
	WiFi Cables 3 & 4	2.4 - 2.5 & 4.9 - 7.2 GHz, 5 dBi
	GNSS Cable 5	1561, 1575, & 1602 MHz, LNA 26 dB, 5 dBi (RHCP)
VSWR	617 - 960	< 2.2 MAX, < 2:1 TYP.
	1710 - 6000	< 2:1
Impedance	50 Ohm Nominal	
Power Rating	10 Watts	
GNSS	Amplifier Gain	26 dB +/- 3 dB
	Amplifier Bias Voltage	2.7 to 5 VDC
	Noise Figure	2.0 dB max, 1.5 dB typical
	Current	20 mA max, 10 mA typical

Mechanical Specifications	
Radome Material & Color	PC Plastic, Available in Black
Radome Base Material	Corrosion Resistant Aluminum
Radome Dimension	5.50" (139.7 mm) in Diameter 2.38" (60.45 mm) in Height
Standard Connectors (MALE)	SMA Plugs (Male) for 5G/LTE & GNSS, Rev Pol SMA Plugs for WiFi
Cables 1 - 4	Separate LMR-195 FR, 15 ft (4.5 m) for 5G/LTE & WiFi
GNSS Cable 5	LMR-100FR, 15 ft (4.5 m) for GNSS
Operating Temperature	-40° to +80° C
Mounting	7/8" (22 mm) Dia. Feed Through 3/4" (19 mm) lg. Thread for up to 1/2" (13 mm) Thick Surface
Shock & Vibration	IEEE-1478, EN 50155, EN 61373, MIL-810G, TIA 329.2-C
Dust & Water Ingress	IP69K (Stud Mount, When Properly Mounted)
	IP67 (Mag-Mount, When Properly Mounted)
Flammability Rating	NFPA-130, EN45545
RoHs Compliant	Yes



PR-LTMG508-91C91C91J91J71C-BLK-180



### HIGHLIGHTS:

- Multiband: 2x 5G Sub-6, 2x WiFi 6E, 1x GNSS
- Cellular Coverage 617-6000 MHz
- WiFi 6E up to 7.125 GHz, WiFi 7 ready
- Meets Rail Industry Standard EN 50155 and NFPA-130 Requirements
- High Performance; High Gain
- Made-in-the-USA & UK

### RELATED MODELS:

- PR-LTM508 (GPS Model)
- PR-LLPG508 (Same Freq, Lower Profile)
- PR-NXD-W (4x WiFi)

### COMMON APPLICATIONS:

- Passenger Rail
- Installation Requiring EN 50155 and NFPA-130 Compliance
- Advanced Multiband Modems
- Public Transportation



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