

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 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 & 1710-6000 MHz. The WiFi 6 (802.11ax) element covers 2.4 & 5 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 customize an Antenna online.



PR-LTMG508-3C3C3J3J2C-BLK-180



Electrical Specifications		
Frequency & Gain	4G LTE/5G Cables 1 & 2	617 - 960 MHz, 3 dBi 1710 - 6000 MHz, 4 dBi
	WiFi Cables 3 & 4	2.4 - 2.5 & 4.9 - 6.0 GHz, 5 dBi
	GNSS Cable 5	1561, 1575, & 1602 MHz, LNA 26 dB, 5 dBi
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 Dimension	5.50" (139.7 mm) in Diameter 2.38" (60.45 mm) in Height
Standard Connectors (MALE)	SMA Plugs for LTE/5G & GNSS, Rev Pol SMA Plugs for WiFi
Cables 1 - 4	Separate LMR195-FR, 15 ft (4.5 m) for LTE/5G & WiFi
GNSS Cable 5	LMR-100FR, 15 ft (4.5 m) for GNSS
Operating Temperature	-40° to +80° C
Mounting	0.87" (22.2 mm) Dia. Feed Through 0.75" (19 mm) Long Thread for Up to 0.50" (12.7 mm) Thick Surface
Shock & Vibration	IEEE1478, EN 50155, EN 61373, MIL-810G, TIA 329.2-C
Water Ingress	IP67 (When Properly Mounted)
Flammability Rating	NFPA-130, EN45545

HIGHLIGHTS:

- Multiband:
2x 5G Sub-6, 2x WiFi, 1x GNSS
- Cellular Coverage 617-6000 MHz
- 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
- Vehicle Fleet Management
- Advanced Multiband Modems
- Public Transportation



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