

PR-LTMWG942

PASSENGER RAIL ANTENNA (NFPA-130)

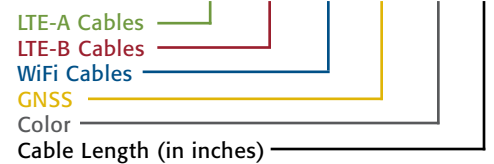
PRODUCT OVERVIEW

The LTMWG942 is an 7-cable antenna with 4x 5G/LTE, 2x WiFi 6E or Bluetooth and 1x GNSS. With up to 7 antenna elements in a sleek small form factor, it is one of the smallest in the industry. The four Cellular elements can be used for Single-Carrier 4x MIMO 5G or Dual-Carrier 2x MIMO 5G. All of our 5G antennas are backwards compatible for 4G LTE. The 2x WiFi 6E elements provide faster through-put for advanced WiFi at 802.11ax applications. It meets rail industry standard EN 50155 environmental and NFPA-130 fire safety requirements. Rail compliant conduit support is available as an option.

Electrical Specifications		
Frequency & Gain	5G/LTE Cables 1 - 4	617 - 960 MHz, 2 dBi 1710 - 7200 MHz, 5 dBi
	WiFi 6E Cables 5 & 6	2.4 - 2.5 & 4.9 - 7.2 GHz, 5 dBi
VSWR	GNSS Cable 7	1561, 1575, & 1602 MHz, LNA 26 dB, 5 dBi (RHCP)
	5G/LTE	< 2.5:1 VSWR Over Range (with 12" LMR-100FR)
Impedance	WiFi 6E	< 2.5:1 VSWR Over Range (with 12" LMR-100FR)
	50 Ohm Nominal	
Power Rating	10 Watts	
GNSS	Amplifier Bias Voltage	3.3/5 VDC
	Gain	26 dB, 5 dBi
	Current	20 mA max, 10 mA typical
Mechanical Specifications		
Radome Material & Color	NFPA-130 Black Plastic	
Radome Dimension	5.50" (139 mm) in Diameter & 2.38" (60 mm) in Height	
1ft (304.8 mm) Pigtail Cables & Connectors Exiting Antenna	5G/LTE	LMR-100FR with SMA Plugs LTE-A (Green) & LTE-B (Red)
	WiFi 6E	LMR-100FR with SMA Plugs (Blue)
	GNSS	LMR-100FR with SMA Plug (Yellow)
Including 14ft (4.26 m) Jumper Cables & Connectors	5G/LTE	LMR-195FR with SMA Jack & SMA Plugs LTE-A (Green) & LTE-B (Red)
	WiFi 6E	LMR-195FR with SMA Jack & Rev Pol SMA Plugs (Blue)
	GNSS	LMR-100FR with SMA Jack & SMA Plug (Yellow)
Operating Temperature	-40° to +80° C	
Mounting	7/8" (22 mm) Dia. Feed Through 3/4" (19 mm) Long Thread for up to 1/2" (13 mm) Thick Surface	
Shock & Vibration	IEEE-1478, EN 61373, MIL-810G, TIA 329.2-C	
Dust & Water Ingress	IP69K (Stud Mount, When Properly Mounted)	
Flammability Rating	NFPA-130, EN45545	
RoHS Compliant	Yes	



PR-LTMWG942-A91CB91CW91JG71C-BLK-180



HIGHLIGHTS:

- Multiband: 4x 5G/LTE, 2x WiFi 6E, 1x GNSS
- WiFi 6E Up to 7.125 GHz, WiFi 7 ready
- Dual-Carrier 2x MIMO 5G or Single-Carrier 4x MIMO 5G
- 1 ft Cable Pigtailed Exit Antenna; 14 ft Cable Jumpers Provided
- Meets Rail Industry Standard EN 50155 and NFPA-130 Requirements
- Color Coded Cable Type for EASY Match-Up
- Made-in-the-USA & UK

RELATED MODELS:

- LTMWG942 (Non-Rail Model)
- LTMW942 (GPS Model)
- PR-LTMWG944 (4x 5G/LTE, 4x WiFi 6E, 1x GNSS)
- PR-LTMWG940 (No WiFi)
- PR-LTMG508

COMMON APPLICATIONS:

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



US Headquarters +1.847.671.6690 • US/CA Toll Free +1.800.648.2800
European Facility +44.1543.459555 • www.MobileMark.com

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