

LTM2900 Series

5G MULTIBAND SURFACE MOUNT ANTENNA

PRODUCT OVERVIEW

The LTM2900 Series is a configurable multiband surface-mount mobile antenna platform supporting combinations of Cellular, WiFi, and GNSS radios in a single housing. The compact radome enclosure is optimized for mobile installations.

- **Small and Powerful:** The LTM2900 Series supports 4x 5G Sub-6 Cellular, 1x GNSS, and up to 6x WiFi 6E/7 elements in a compact and durable radome.
- **Configurable:** Built to match your requirements, the LTM2900 can be configured with fewer WiFi elements as needed. Flexible design ensures a perfect fit for any fleet connectivity systems.

To Purchase, visit www.TheAntennaStore.com

Electrical Specifications		
Frequency & Gain	5G/LTE Cables 1 - 4	617 - 960 MHz, 2 dBi 1710 - 7200 MHz, 5 dBi
	WiFi 6E Cables 5 - 10	2.4 - 2.5 & 4.9 - 7.2 GHz, 5 dBi
	GNSS Cable 11	1561, 1575, & 1602 MHz, LNA 26 dB, 5 dBi (RHCP)
VSWR	5G/LTE	< 2.5:1 VSWR Over Range (with 12" RG-316)
	WiFi 6E	< 2:1 VSWR Over Range (with 12" RG-316)
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, Available in Multiple Colors	
Radome Base Material	Corrosion Resistant Aluminum	
Radome Dimension	5.50" (140 mm) in Diameter & 2.38" (60 mm) in Height	
1ft (305 mm) Pigtail Cables & Connectors Exiting Antenna	5G/LTE	RG-316 with SMA Plugs LTE-A (Green) & LTE-B (Red)
	WiFi 6E	RG-316 with SMA Plugs (Blue)
	GNSS	RG-174 with SMA Plug (Yellow)
14ft (4.27 m) Jumper Cables & Connectors Included (FAKRA connectors also available)	5G/LTE	LL-195 with SMA Jack & SMA Plugs LTE-A (Green) & LTE-B (Red)
	WiFi 6E	LL-195 with SMA Jack & Rev Pol SMA Plugs (Blue)
	GNSS	RG-174 with SMA Jack & SMA Plug (Yellow)
Operating Temperature	-40° to +80° C (Optional 100° C Available)	
Fire Rating	NFPA-130 / UL-94 V-0 (Optional)	
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)	
RoHS & REACH Compliant	Yes	



HIGHLIGHTS:

- Custom Colors Available Upon Request
- Reduced Drag and Wind Resistance
- Faster Ice and Water Shedding to Prevent Environmental Buildup
- Rail-Ready and Built for High Speed Transit
- Configurable w/multiple 5G, WiFi 6E/7, GNSS
- Easy to Install
- Manufactured in North America & Europe

COMMON APPLICATIONS:

- Fleet Management & Telematics
- Public Safety Vehicles
- Mass Transit & Passenger Rail
- Smart Transportation Systems
- Mobile Data & Router Connectivity

BANDS:

- 5G NR: n1, n2, n3, 4, n5, 6, n7, n8, n12, n13, n14, n18, n20, n24, n25, n26, n28, n29, n30, n34, n38, n39, n40, n41, n46, n47, n48, n50, n53, n54, n65, n66, n67, n70, n71, n74, n75, n76, n77, n78, n79, n80, n81, n82, n83, n84, n85, n86, n89, n90, n91, n92, n93, n94, n95, n96, n97, n98, n99, n100, n101, n102, n104, n105, n106, n109
- LTE: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 65, 66, 67, 68, 69, 70, 71, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 89, 90, 95, 96, 98, 100, 101, 102, 103, 104, 105, 106, 107, 252, 255



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