

## 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 configurations of (4x) 5G Sub-6 Cellular, up to (6x) WiFi 6E/7, and (1x) GNSS, or alternatively up to (5x) WiFi 6E/7 with (1x) GNSS.
- **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](http://www.TheAntennaStore.com).

| Electrical Specifications |                           |  |
|---------------------------|---------------------------|--|
| Frequency & Gain          | 5G/LTE Cables<br>1 - 4    | 617 - 960 MHz, 2 dBi<br>1710 - 7200 MHz, 5 dBi     |
|                           | WiFi 6E Cables<br>5 - 10  | 2.4 - 2.5 & 4.9 - 7.2 GHz, 5 dBi                   |
|                           | GNSS<br>Cable 11          | 1561, 1575, & 1602 MHz,<br>LNA 26 dB, 5 dBi (RHCP) |
| VSWR                      | 5G/LTE                    | < 2.5:1 VSWR Over Range<br>(with 15' RG-316)       |
|                           | WiFi 6E                   | < 2:1 VSWR Over Range<br>(with 15' RG-316)         |
| Impedance                 | 50 Ohm Nominal            |  |
| Power Rating              | 10 Watts                  |  |
| GNSS                      | Amplifier Bias<br>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<br>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<br>LTE-A (Green) & LTE-B (Red) |
|   | WiFi 6E  | LL-195 with SMA Jack<br>& Rev Pol SMA Plugs (Blue)              |
|   | GNSS   | RG-174 with SMA Jack<br>& SMA Plug (Yellow)                     |
| Operating Temperature   | -40° to 100° C (Available Option)  |   |
| Fire Rating   | NFPA-130 / UL-94 V-0 (Available Option)  |   |
| Mounting  | 7/8" (22 mm) Dia. Feed Through<br>3/4" (19 mm) Long Thread for up to<br>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



US Headquarters +1.847.671.6690 • US/CA Toll Free +1.800.648.2800  
European Facility +44.1543.459555 • [www.MobileMark.com](http://www.MobileMark.com)

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