

### TMA-24A-302CT



Shown with optional NATO mount and POC Injector

#### PRODUCT OVERVIEW

Luxul's Tactical Mesh Antenna (TMA) is designed for use in rugged and mobile wireless networking applications. TMA construction is highly durable and water resistant, while the small footprint and low profile design makes it an ideal solution for mounting on vehicles or in other space constrained applications.

Each TMA type is available in two options: 1) Standard; and 2) High Performance (HP-TMA). The standard TMA generally operates and performs in the same manner as a generic antenna with a similar gain rating, while the HP-TMA is designed to significantly increase signal coverage while maintaining the same pattern characteristics of the standard TMA.

The 2.4GHz High Performance Tactical Mesh Antenna (HP-TMA) implements 3D Signal™ technology that combines Luxul's patented signal boosting technology with unique Circular Polarized (CP) signal propagation for increased signal penetration, higher data rates, and improved connectivity with mobile client devices. The circular polarization allows for superior penetration of obstacles such as trees, walls, and buildings. CP also overcomes issues of antenna alignment, making it an ideal option for mobile applications.

## High Performance Tactical Mesh Antenna 2.4GHz Omni Antenna

#### TMA-24A-302CT TECHNICAL SPECIFICATIONS

|                             |                                                                                                                                                                                                             |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operating Range</b>      | 2400 to 2500 MHz                                                                                                                                                                                            |
| <b>Operating Temp</b>       | -40F (-40C) to +158F (70C)                                                                                                                                                                                  |
| <b>Polarization</b>         | Right Hand Circular                                                                                                                                                                                         |
| <b>Antenna Gain</b>         | 2dBi                                                                                                                                                                                                        |
| <b>Azimuth Beam Width</b>   | 360°                                                                                                                                                                                                        |
| <b>Elevation Beam Width</b> | 70°                                                                                                                                                                                                         |
| <b>VSWR</b>                 | < 2.0 : 1                                                                                                                                                                                                   |
| <b>Impedence</b>            | Store-and-Forward                                                                                                                                                                                           |
| <b>EIRP</b>                 | 32dBm peak, 26dBm max average                                                                                                                                                                               |
| <b>Receive Gain</b>         | 17dB Typical                                                                                                                                                                                                |
| <b>TX Input Power</b>       | +8dBm to +20dBm                                                                                                                                                                                             |
| <b>Receive Noise Figure</b> | 4.5dB Typical                                                                                                                                                                                               |
| <b>Power Consumption</b>    | 2W max (RX) 8W max (TX)                                                                                                                                                                                     |
| <b>Power Options</b>        | Power Over Coax (POC)                                                                                                                                                                                       |
| <b>DC Input Voltage</b>     | <ul style="list-style-type: none"> <li>▶ 36-57 VDC for an operational temp. range of -40F (-40C) to +158F (70C)</li> <li>▶ 24-57 VDC for an operational temp. range of -4F (-20C) to +158F (70C)</li> </ul> |
| <b>Connector</b>            | N Female                                                                                                                                                                                                    |
| <b>Radome Material</b>      | Impact-Resistant, UV-Stabilized Polycarbonate                                                                                                                                                               |
| <b>TMA Height</b>           | 5.5 in. (140mm)                                                                                                                                                                                             |
| <b>TMA Diameter</b>         | 4.4 in. max (112mm)                                                                                                                                                                                         |
| <b>Color</b>                | Desert Tan                                                                                                                                                                                                  |
| <b>Radiation Pattern</b>    |                                                                                                                                                                                                             |