

TMA-24A-302CT

High Performance Tactical Mesh Antenna 2.4GHz Omni Antenna



PRODUCT OVERVIEW

This amplified 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.

TMA-24A-302CT TECHNICAL SPECIFICATIONS

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

MOUNTING OPTIONS

