Product Brief | NPI

Wireless

LPT WiFi 6E/7 Antenna

Ground Plane Independent

PRODUCT OVERVIEW

LPTNG2471M2DMG0457 is a low-profile, g**round-plane-independent 2×2 MiMo** external antenna delivering **WiFi 6E** and **WiFi 7** performance across the 2.4 GHz and 5-7 GHz bands. Designed for stable operation on metallic and non-metallic surfaces, the antenna eliminates the need for a traditional ground plane. **UL94-V0** flame-rated and **IP67**-rated, it supports installation across a wide range of mounting locations and environmental conditions.



Quick Facts

MiMo coverage: 2400–2500 MHz and 4900–7125 MHz NEW

Ground plane independent design NEW

IP67 & UL94-V0 rated for outdoor and harsh environments NEW

Contact & Information

Visit our Product Pages on YAGEOGroup.com

Key Selling Points

Features

- **Rugged Environmental Construction: IP67 ingress protection and UL94-V0 flame rated radome for industrial reliability.**
- **High Radiation Efficiency: Up to 80% efficiency at 2.4 GHz and 64% across 5–7 GHz bands.**
- **Ground-Plane-Independent Architecture: Performs reliably on metallic and non-metallic surfaces using an integrated mounting washer.**

Customer Value

- Simplifies antenna integration by removing ground-plane constraints
- Reduces design risk for plastic, fiberglass, and composite enclosures
- Supports current and future Wi-Fi standards
- Custom cable lengths and connector options available to match system requirements

Target Applications

- **IoT gateways and edge devices**
- **Smart city infrastructure**
- **Smart utilities and metering systems**
- **Industrial automation and control panels**
- **Remote monitoring equipment**
- **Remote vending and payment terminals**
- **Non-metallic utility boxes and kiosks**

Market Advantages

- Ground plane independent operation differentiates it from standard WiFi monopoles
- Covers full WiFi 6E and Wi-Fi 7 spectrum up to 7.125 GHz in a single antenna
- Designed for reliable performance on both metallic and non-metallic enclosures
- Combines industrial-grade protection with compact form factor
- Reduces dependency on enclosure material for consistent RF performance