

PRODUCT OVERVIEW

LPTNG2471M2DMG0457 is a low-profile, **ground-plane-independent 2x2 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](https://www.yageogroup.com)



Wireless

LPT WiFi 6E/7 Antenna

Ground Plane Independent



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.

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

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

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 behavior