

## CDB94411AM

### Compact and Covert 9-Port Antenna for 5G, Wi-Fi 6E/7 & Tri-Band GNSS

In today's rapidly evolving world of vehicle tracking, fleet management, and industrial IoT, reliable connectivity is essential. The [CDB94411AM](#) from Yageo Group is a 9-in-1 antenna designed to meet the demands of modern wireless applications. By integrating 4x 5G-LTE, 4x Wi-Fi 6E/7, and a high-precision GNSS L1/L2/L5 antenna into a compact unit, it simplifies installations while delivering superior multi-network performance.

### Designed for Mission-Critical Applications

The CDB94411AM is ideal for industries that require reliable multi-network connectivity, including public safety, first responder fleets, autonomous vehicles, and industrial automation. Its compact, all-in-one design reduces complexity and ensures high performance in the most demanding environments.

### High-Performance Multi-Band Connectivity

With wide frequency support and advanced filtering, the CDB94411AM ensures stable, high-efficiency performance:

- 5G-LTE: 4x MIMO support across 617-7125 MHz enhances cellular reception and data throughput.
- Wi-Fi 6E/7: 4x MIMO antennas covering 2400-2500 MHz and 5150-7125 MHz enable high-speed networking.
- GNSS: Active stacked patch antenna supporting L1 (1561-1602 MHz), L2 (1215-1237 MHz), and L5 (1164-1189 MHz) with >30 dB filtering, 28 dB  $\pm$  2 dB LNA gain, and low noise figure (1.7 dB @1575 MHz, 2.2 dB @1227 MHz, 2.2 dB @1227 MHz).

### Covert and Secure Installation

Designed for discreet, low-profile deployment, the CDB94411AM features a rugged adhesive mount that securely attaches to plastic and glass surfaces. Its VHB adhesive ensures a strong, reliable mounting while enabling effortless installation across various environments, including vehicles and fixed infrastructure. Additionally, its IP65 rating provides protection against dust and water ingress, ensuring durability in harsh conditions.

### Key Features

- 9-in-1 Multi-Band Support – 4x 5G-LTE, 4x Wi-Fi 6E/7, GNSS L1/L2/L5.
- Advanced GNSS Filtering – >30 dB rejection improves positioning accuracy.
- Wideband Coverage – 617-7125 MHz for superior performance across networks.
- Strong Adhesive Mount – 3M VHB 4991 for secure, non-metallic surface installation.
- Compact & Covert – Discreet, low-profile housing ideal for space-limited applications.
- Optimized Isolation – Minimum 8 dB (5G) & 15 dB (Wi-Fi) to reduce interference.
- Durable & Weather-Resistant: IP65-rated, UV-stabilized polycarbonate housing for protection against dust, water, and long-term reliability.
- Customizable Cables & Connectors

### Ideal Applications

- Fleet Management – Real-time tracking and telematics.
- Public Safety – Critical communications for emergency response.

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- Connected Vehicles – Enhanced navigation & V2X data exchange.
- Industrial IoT – Reliable smart infrastructure connectivity.
- Fixed Wireless Deployments – Stable broadband access in urban & remote areas.
- Transportation & Logistics – Real-time vehicle monitoring & asset tracking.
- Smart Cities – Supports IoT-driven urban infrastructure.