

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 ± 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.