

Sleek and Powerful with Up to 13 Integrated Connections for Vehicle Fleets

As the demand for high-speed, low-latency connectivity in public service and commercial fleet vehicles continues to grow, YAGEO Group introduces the [SKF5GEX134811DM](#) and [SKF5GEX74211DM](#) Sharkfin antennas. Designed for direct mounting on vehicle rooftops, these versatile antennas provide 4x4 MIMO LTE, 2x2 or 8x8 MIMO Wi-Fi 6E/7, and GNSS L1/L2 support, ensuring seamless connectivity for telematics, fleet management, and mission-critical applications. With broad 5G FR1 frequency coverage, these antennas deliver industry-leading performance for next-generation vehicle communication systems.

Seamless Vehicle Integration

Unlike traditional multi-element antennas that require additional mounting hardware, the SKF5GEX series is engineered to fit within the ridges of public service SUVs and other emergency vehicles, eliminating the need for external adapters or additional sealing. This low-profile, rugged design ensures a secure, weather-resistant installation while maintaining strong and stable connectivity in a variety of environments. The ground plane independent design further enhances integration, ensuring reliable operation regardless of the mounting surface.

High-Performance Multi-Band and Dual-Carrier Connectivity

Both the SKF5GEX134811DM and SKF5GEX74211DM feature 4x4 MIMO 5G FR1 support with dual-carrier capabilities, providing redundancy and enhanced connectivity for maximum signal strength and throughput across 617 MHz to 5925 MHz. They also integrate GNSS (L1+L2) with a 28dB low-noise amplifier (LNA) for precise positioning and tracking in real-time applications such as navigation, asset tracking, and EV charging infrastructure.

For Wi-Fi, DSRC, and V2X applications, these antennas stand out with:

- SKF5GEX134811DM: 8x8 MIMO Wi-Fi 6E/7 for high-speed, interference-resistant connectivity.
- SKF5GEX74211DM: 2x2 MIMO Wi-Fi 6E/7, optimized for fleet management and connected vehicle applications.

Built for Durability

Both antennas are housed in a UV-protected, IP67-rated enclosure, ensuring protection against water, dust, and extreme temperatures (-40°C to +85°C). With a compact 400 x 52.5 x 63.8 mm form factor, these solutions offer an aerodynamic design without compromising on performance.

Key Applications:

Public safety and first responder vehicles

- Fleet management & telematics systems
- Connected and autonomous vehicles
- Smart city & V2X infrastructure
- EV charging and remote monitoring systems