

SHARK FIN ANTENNA



Shark Fin Antenna – Custom Design & Manufacturing

Futuretech Dynamics specializes in **custom-designed** Shark Fin Antennas, integrating AM/FM, GPS, and LTE capabilities into a single, sleek housing. Our **advanced manufacturing** ensures antennas are tailored to **any shape, size, or application**, meeting global communication standards with precision.

Key Performance Metrics

- **AM/FM:** VSWR ≤ 1.4 | Gain ≥ 20.5 dB
- **GPS:** VSWR ≤ 1.5 | Gain ≥ 33 dB
- **LTE:** VSWR ≤ 1.5 (Typical)

Why Choose Us?

- **Custom Designs:** Fully tailored shapes and sizes to fit your unique requirements.
- **End-to-End Manufacturing:** Cutting-edge facilities for high-quality, reliable production.
- **Global Standards Compliance:** Tuned for superior performance worldwide.

Services Provided

- **Prototyping:** Rapid development for testing and validation.
- **Performance Tuning:** Optimized for AM/FM, GPS, and LTE with global standards compliance.
- **Quality Assurance:** Rigorous testing for reliability and durability.
- **Integration Support:** Seamless integration into automotive, aerospace, and more.
- **Expert Consultation:** Guidance on design and performance optimization.

Futuretech Dynamics – Delivering innovative, custom antenna solutions for your connectivity needs. Contact us today!

Vadodara - 390016, Gujarat, INDIA



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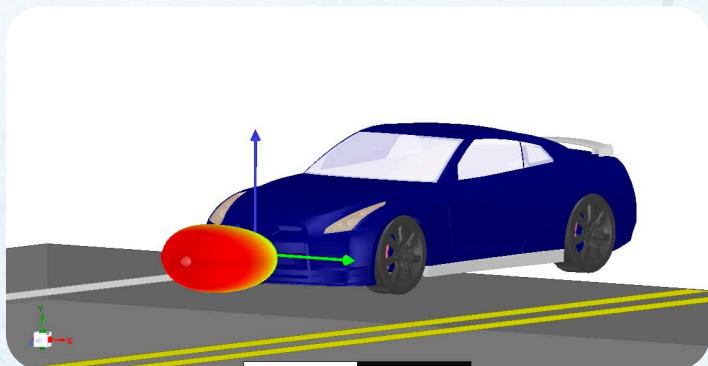
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ADVANCED DRIVING ASSISTANCE SYSTEM

LEVEL-3 & LEVEL-4



ADAS L3 & L4 - Development and Customisation

Futuretech Dynamics is a leader in **RF and microwave technology**, specializing in high-performance **RADAR systems** and **Advanced Electronics solutions**.

Key Capabilities:

- In-House RADAR Development:** Precision-designed for reliable detection and tracking.
- Telemetry Ecosystem:** Real-time V2V and V2I communication.
- Custom Algorithms:** Proprietary Automation algorithms for decision-making and safety.
- Modular Design:** Customizable, upgradable systems for seamless vehicle integration.
- Future-Ready:** Scalable, sustainable, and adaptable to emerging technologies.
- In-House Testing Lab:** Comprehensive testing capabilities up to 110 GHz for system validation and optimization.

Services Provided

- Custom ADAS Development:** Tailored L3 & L4 automation solutions.
- In-House RADAR Design:** High-performance RADAR system development.
- Telemetry Systems:** Robust V2V and V2I communication design.
- Testing & Validation:** In-house testing up to 110 GHz for reliability.
- Customizable Systems:** Modular, upgradable solutions for diverse vehicles.
- Retrofit Solutions:** ADAS upgrades for existing cars.
- Consulting & Support:** Expert guidance and post-deployment support.

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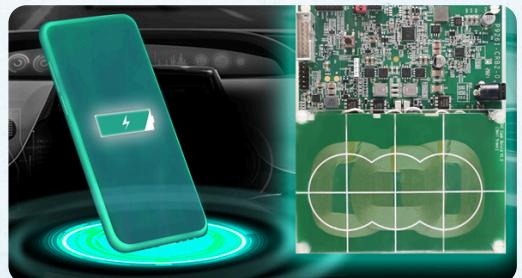
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Wireless Charging Solutions

- Purpose:** Futuretech Dynamics offers advanced wireless charging systems designed for automotive, heavy-duty vehicles, and drones.
- Compatibility:** Fully compliant with the latest Qi protocol for universal device support.
- Performance:** It supports up to 15W fast charging, delivering higher power than traditional chargers.
- Design:** Compact, modular, and Made in India for reliable performance.
- Development:** Features in-house designed hardware, including charging coils and power circuits for automotive and consumer electronics.
- Advantage:** The solution is 100% Made in India, providing a trusted, scalable, and cost-effective alternative to imports.



BLE/Wi-Fi modems for Wireless Apple CarPlay & Android Auto

- Purpose:** Enables Wireless Apple CarPlay and Android Auto integration in vehicles.
- Connectivity:** Uses Bluetooth Low Energy (BLE) for initial pairing and Wi-Fi (2.4 GHz/5 GHz) for high-speed data transfer.
- Functionality:** Supports seamless transmission of navigation, media, and voice control between smartphone and infotainment system.
- Design:** Compact, automotive-grade modem designed for OEM compatibility and integration with vehicle ECUs.
- Customization:** RFME can tailor BLE/Wi-Fi interface solutions to suit various car platforms and infotainment systems.



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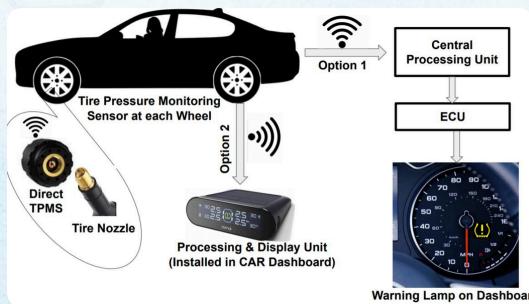
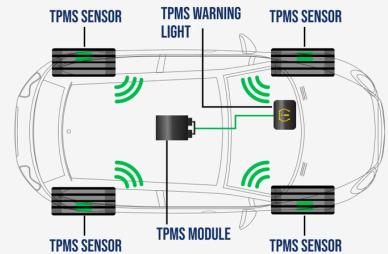


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Tyre Pressure Monitoring Systems

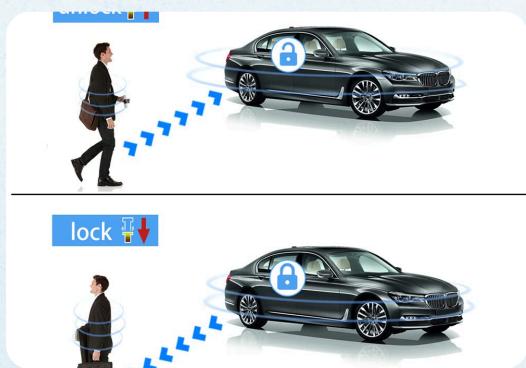
- Purpose:** Monitors real-time tyre pressure and temperature to enhance safety, fuel efficiency and tyre life.
- Technology:** Wireless one-way RF transmitters in each tyre send pressure data to a central vehicle receiver.
- Types:** Supports both direct TPMS (sensor inside tyre) and indirect TPMS (using ABS/ECU data).
- Integration:** Designed to work with existing vehicle ECUs or as an independent display module.
- Reliability:** Built to automotive-grade standards with rugged RF hardware for long-term use in harsh conditions.
- Uniqueness:** Made in India, an indigenous alternative for OEMs and aftermarket use.

TIRE PRESSURE MONITORING SYSTEM



Keyless Entry System using Body Antennas

- Functionality:** Allows remote lock/unlock and push-button start based on key proximity.
- Technology:** Secure RF transceiver modules detect encrypted fob signals within preset range.
- Enhanced Security:** Rolling code encryption resists cloning or signal hijacking.
- User Experience:** Seamless passive entry for added driver convenience and luxury appeal.
- Integration:** Compatible with existing ECUs or can be deployed as an independent kit.
- Local Advantage:** Indigenously developed – a reliable and cost-effective solution to replace imports.



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