





AURENNA TECH PVT LIMITED

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About Company

Aureenna Tech Pvt Ltd is a cutting-edge microwave and antenna engineering company specialising in advanced solutions for high-performance RF systems and industrial scale IoT applications. Our expertise spans microwave absorbers, novel antenna test systems, software-defined radio (SDR) design and manufacturing, and RFID tags tailored for railway and commercial industries. We build end-to-end solutions—from custom microwave components and test setups through firmware and hardware integration for SDR platforms—enabling clients to deploy robust wireless subsystems in challenging environments.

With deep engineering know-how in electromagnetics, RF circuit design, and system integration, Aureenna supports sectors including rail transport, logistics, infrastructure, defence and smart-city networks. Focused on innovation, scalability and reliability, our company delivers next-generation wireless power, sensing and communication modules that minimise maintenance, enhance performance and reduce total lifecycle cost.



CEO Message

At Aurenn Tech Pvt Ltd, we believe that advanced RF and microwave technology should be accessible, reliable, and built for real-world impact. Our mission is to engineer solutions that push performance boundaries while reducing complexity for our clients. From next-generation antenna systems to rugged RFID and SDR platforms, we focus on innovation that solves real industrial challenges. We are committed to delivering products that are precise, scalable, and trusted in the field—because our partners depend on technology that works every time. Thank you for supporting our journey as we continue to shape the future of wireless engineering.



**Amit Kumar
Baghel**



Meet Our Team

Lead Technical Team



Ajit Singh
Marketing Head



Henrique Chaves
Embedded Engineer



Vinicius Uchoa Lima
Oliveira
Antenna Engineer



Meet Our Team

Board of Advisors



Prof. Nuno Borges
Carvalho



Prof. Pedro Pinho

Yael Amari

Vinicius Uchoa Lima
Oliveira
Antenna Engineer



Portfolio

Microwave Absorbers: High-performance absorptive materials engineered for RF suppression, EMC control, and precision testing environments

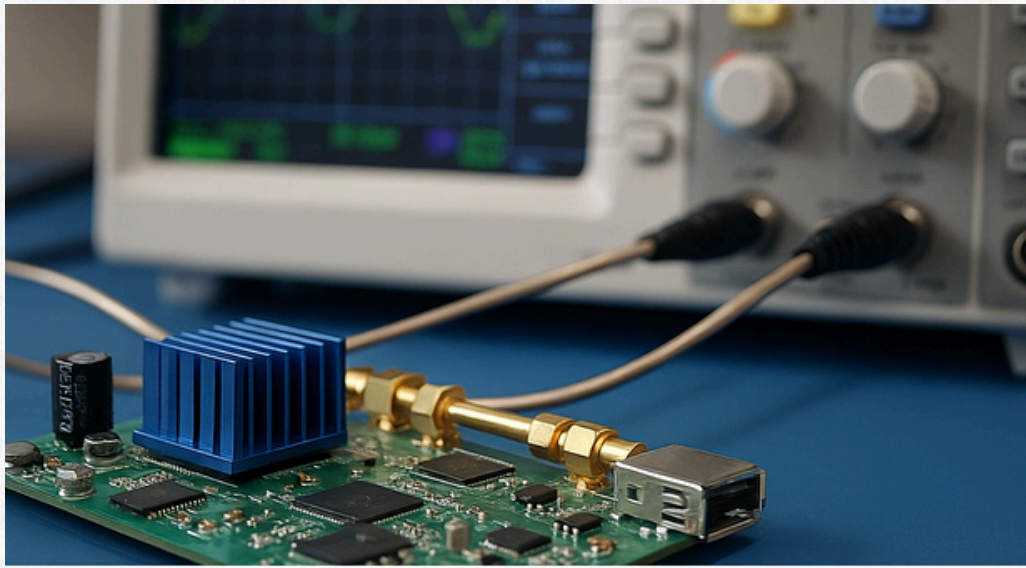
SDR Development – Custom software-defined radio hardware and firmware for flexible, high-bandwidth wireless communication system

Antenna Development – End-to-end design, simulation, and fabrication of advanced antennas for industrial and commercial applications.

RFID for Railways & Industry – Rugged, long-range RFID tag and reader solutions tailored for railway tracking and large-scale commercial operations.



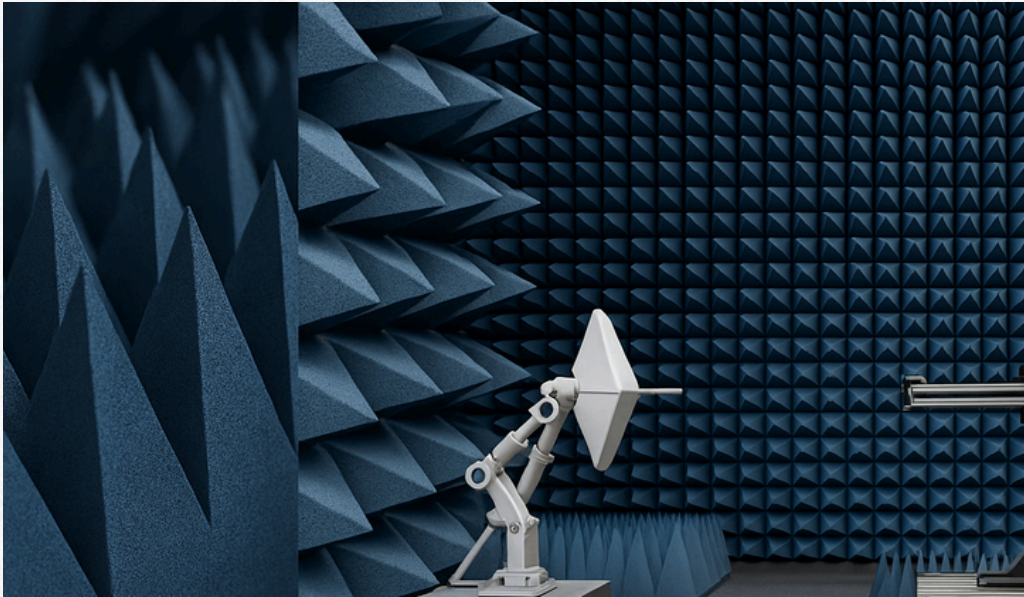
SDR



We design and manufacture custom Software-Defined Radio (SDR) platforms tailored for industrial, research, and communication applications. Our team handles the full development cycle—from RF architecture and FPGA/DSP programming to PCB design, fabrication, and assembly. By controlling both hardware and software in-house, we deliver flexible, high-performance SDR systems optimized for wideband operation, rapid prototyping, and scalable production.



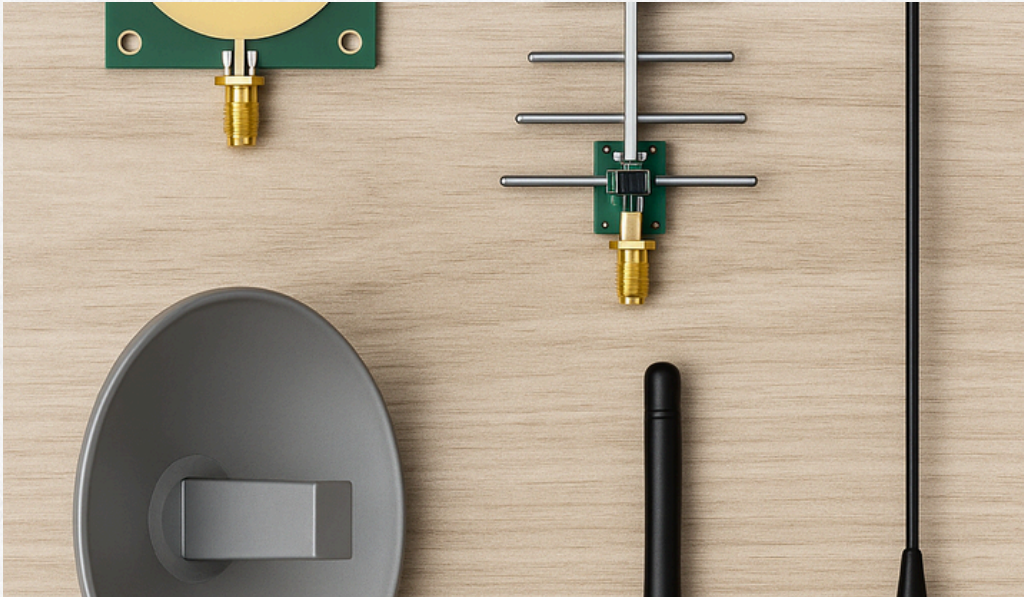
Microwave Absorber & Antenna Testing Solution



We provide advanced microwave and antenna testing solutions designed for high accuracy, repeatability, and real-world performance verification. Our capabilities include absorber-based test environments, smart anechoic chambers, and precision measurement setups for gain, pattern, and S-parameter evaluation. We support R&D, product validation, and custom test system development for industrial and commercial RF applications.



Antenna Development



We design and develop advanced antennas for commercial, industrial, and research applications, including next generation 5G and emerging 6G antenna systems. Our work spans simulation, prototyping, measurement, and optimization of high-performance solutions across microwave, millimeter-wave, and RF bands. We deliver antennas tailored to mission-critical environments, ensuring reliability, bandwidth efficiency, and precise electromagnetic behavior for modern wireless communication needs.



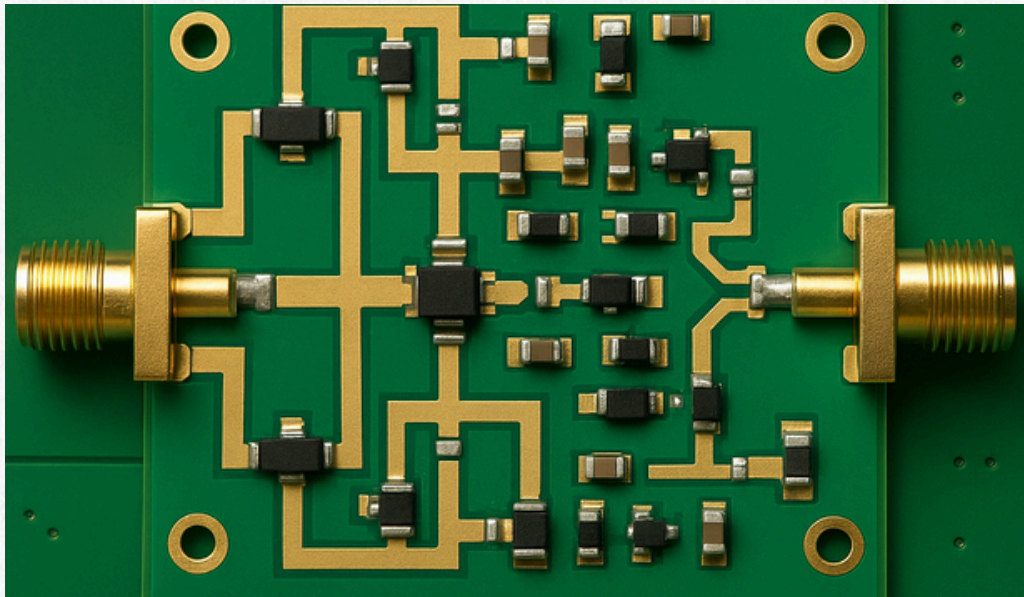
RFID



We create robust RFID tags and reader systems engineered for harsh railway and industrial environments. Our solutions improve asset tracking, safety, and operational efficiency, with tags designed for long-range readability, durability, and compliance with global standards.



Microwave Circuit Design & Engineering



We design high-performance microwave circuits tailored for modern RF and wireless applications. Our engineering capabilities include low-loss signal paths, precision impedance matching, filter and amplifier design, and high-frequency PCB development. Each circuit is optimized through rigorous simulation, prototyping, and measurement to ensure stability, efficiency, and reliability across demanding environments. From concept to manufacturable hardware, we deliver robust microwave solutions that support advanced communication, sensing, and industrial systems.



Let's Work Together

We collaborate with industry, research institutions, and forward-thinking organizations to develop cutting-edge RF, microwave, and antenna technologies. Whether you need a custom antenna, robust RFID systems, SDR hardware, or advanced microwave testing solutions, we bring technical depth, precision engineering, and end-to-end support. Our team works closely with partners to transform ideas into reliable, manufacturable products that meet real-world demands. Let's build the next generation of wireless innovation—together.



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