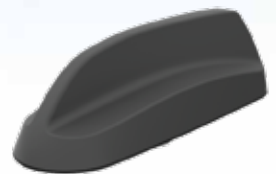




Antennas

Solutions Guide



Reach your local sales team at 1.800.CALL.TTI

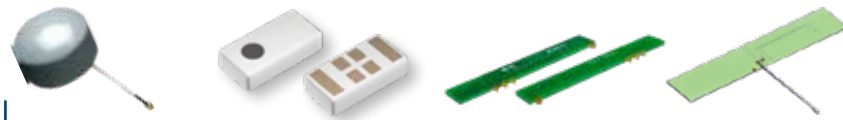
TTI has the Reception and Transmission Options Your Design Requires

Antennas are the key to seamless wireless communications, and in today's connected world there can be a wide variety of frequencies, protocols, form factors, and applications that affect your design. TTI offers a broad selection of antenna solutions from the industry's premier suppliers.



Medical Devices

Medical devices with wireless connectivity typically use internal and chip antennas. These devices are designed for aesthetics and with relatively short distances from transmitter to receiver the link can be maintained with an antenna not visible to the user.



Chip, FPC, and PCB Antennas



External and In-building Antennas

Asset Tracking

Asset tracking is vital to most industries. The ability to identify, locate, and deploy all valuable assets helps companies maximize returns to investment. Asset tracking comes in many forms from the simple Near Field Communications (NFC) passive tag to Radio Frequency Identification (RFID) to complex cellular, GPS, and satellite monitored products. A good antenna is the key to all asset tracking solutions.

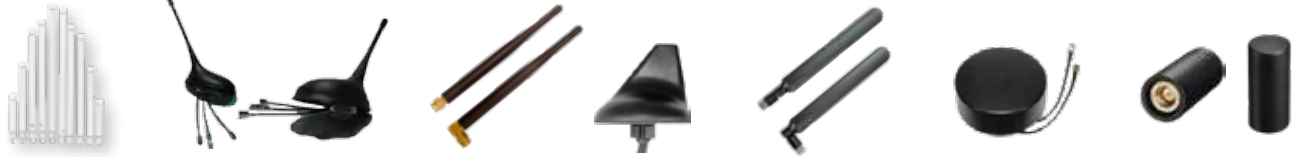


NFC and RFID antennas



Smart Agriculture

Smart agriculture is based on IoT technologies that enable growers and farmers to reduce waste and enhance productivity. From the quantity of fertilizer utilized to the number of journeys farm vehicles have made. Precision farming, agriculture drones, livestock monitoring and smart greenhouses make up this segment of agriculture evolution that includes many antennas.



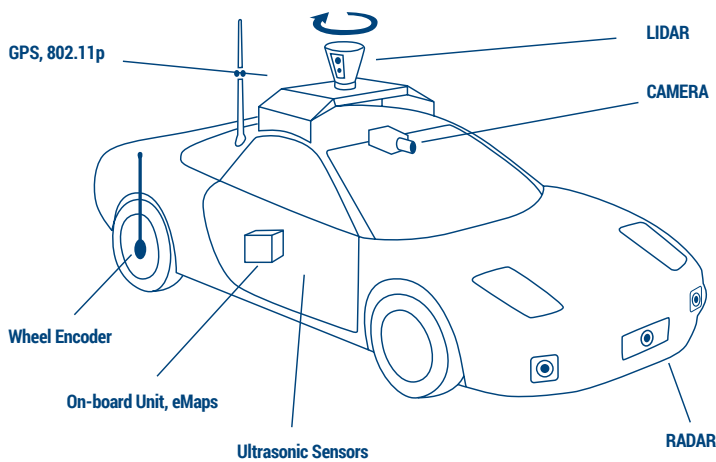
Outdoor and Vehicular Antennas

First Responders

Critical communications in police, fire, and ambulance arenas are very demanding on antennas. They must perform with superior strength under emergency situations. TTI has solutions for Land Mobile Radio (LMR) and vehicular First Responder Network Authority (FirstNet) frequencies as well as all older emergency services frequencies.



Multiple Input and Multiple Output (MIMO) Antennas



Autonomous Vehicles

The connected and autonomous car is seeing a big push from the car makers. Consumers expect the latest and greatest technologies they see on smart phones and tablets to be available when they get into the car and turn the ignition. These solutions require a new level of robust, secure, and reliable wireless technologies, that include antennas.

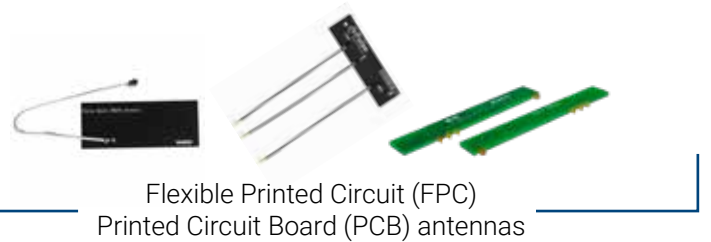


Vehicular Antennas

IoT Applications in All Industries

Internet of Things (IoT) implementation is driving the need for more antennas and increasing the expectations of end users. Smaller antenna form factors are emerging as device manufacturers are shrinking the device footprint.

- Industrial Automation
- Medical Patient Monitoring
- Asset Tracking and Transportation
- Agriculture Automation
- Autonomous Cars
- Critical Communications



Industry 4.0

Industry 4.0 is a name for the current trend of automation and data exchange in manufacturing technologies.

It includes cyber-physical systems, IoT, cloud computing and cognitive reasoning. The ability to connect sensors, robotics, motors and conveyor systems wirelessly and reliably is accomplished with external antennas.

