



Car to car - Wlan connectivity

What can happen if the systems on board a car validated communication with other cars on the road ? Car Makers estimate that one on 10 cars would have to be part of wireless network to create a high-resolution, real-time traffic map. One on three cars would need to be connected to increase public safety.

Every car could transmit telemetry data to each other in real-time, cars that could tell every car behind if there's congestion or an accident.

Now we build standardized Wi-Fi solutions because we believe that wireless technologies have to be an opportunity for all.



Wi-Fi: Freedom of movement

CANBUS ON WI-FI

In automotive our modules are able to transfer on the Internet (connection with access-point) or personal device (ad hoc connection) data in transit on the CAN-BUS network .

Our modules can be connected directly to the socket of the car devoted to the diagnostics of the operating parameters.



Wi-Fi network security

The key, of course, is security in Wi-Fi networks, where every node can have all the information of all the others. Our solutions apply encryption tools and using an innovative method to avoid latency and errors typical of Wi-Fi networks.

Secure channels in car-networks could be used by government agencies, traffic and emergency services to assess congestion or to quickly plot the best route through a busy area and so on.

BENEFIT

Main goals of WIICOM Wi-Fi solution

- Car to car – WLAN connectivity
- Wi-Fi communication is particularly suited to share data acquisition.
- Increasing mobility of data from one device to each other
- Large integration of services in existent Wi-Fi networks (like urban net)
- Connection with Human Interface Devices (Wi-Fi Personal Device)

CAN BUS interface

WIICOM provides an high speed serial interface (USDB®) that is a physical way to connect CAN BUS for automotive industries.

The important thing is that the electronic devices on board don't need modifications at the software to communicate in wifi (NO SOFTWARE TO DO).

Our modules are ready to go.

PRODUCT APPLICATION

The WIICOM modules are complete wireless device that directly provides an interface for data transfer. It integrates an RF transceiver with power amplifier, a frequency reference and an antenna in hardware.

WLAN protocol, configuration functionality and networking stack are implemented in embedded firmware.

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