Telematic Control Unit
2G, 3G, 4G, Wi-Fi, GNSS, CAN, HMI
and other communications interfaces

Benefits:

- Incorporating module connectivity 4G into the vehicle making available a Wi-Fi hotspot to the service of its passengers.

- The bandwidth that provides the new telephony network 4G/LTE to surf along the internet.

- A web interface customized for each vehicle manufacturer with the possibility of having applications for mobiles and portable devices.
Telematic Control Unit
2G, 3G, 4G, Wi-Fi, GNSS, CAN, HMI
and other communications interfaces

Technical Advantage:

- Linux based.
- 2G, 3G and 4G connectivity available. 5G in Roadmap.
- Cost effective and compact electronic design.
- Optimal design and performance of integrated antennas with the option of external antennas.
- It’s a totally scalable solution, so it can grow with your business (up to 6 CAN buses, Ethernet connection...).
Telematic Control Unit
2G, 3G, 4G, Wi-Fi, GNSS, CAN, HMI
and other communications interfaces

Application:

- eCALL & ERA-GLONASS regulation. Backup battery.
- Car To Cloud, IoT & Connected Car.
- Security (stolen vehicle tracking, roadside assistance).
- Remote car management & monitoring services.
- Wi-Fi hotpot connection.
- USB connection
- Totally scalable solution, so it can grow with your business (up to 6 CAN buses, Ethernet connection...).
- Cost effective, compact and easy installation.
Smart Connectivity Module
CONNECTIVITY PLATFORM FOR DRIVERS AND PASSENGERS

Benefits:

- Provides connectivity 4G into the vehicle making available a Wi-Fi hotspot to the passengers.

- Provides new Telephony network 4G / LTE network and allows surfing the Internet at great speed for several users. (5G also in Roadmap).

- Web interface for each vehicle with the possibility of having Apps for IOS or Android on mobile and portable devices.

Hidden concept  Shark-fin concept
Smart Connectivity Module
CONNECTIVITY PLATFORM FOR DRIVERS AND PASSENGERS

Technical Advantage:
- Integrate in one solution various internal and external antennas.
- Simplifies vehicle architecture meaning significant cost reduction.
- Enables all passengers to have connectivity simultaneously, independently and with better performance (emitter/receiver closer).

Features:
- Telephony (3G/4G/5G)
- Positioning (GNSS)
- Wi-Fi
- DSRC
- AM/FM, DAB, DRM
- Satellite Radio (SDARS)
- RKE
Smart Connectivity Module
CONNECTIVITY PLATFORM FOR DRIVERS AND PASSENGERS

Application:
- The connected car. Infotainment & connectivity.

<table>
<thead>
<tr>
<th>TUNERS</th>
<th>SHARK-FIN</th>
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<tbody>
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<td>NO</td>
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- Hidden antenna
- Connectivity module with tuners
- Tuners in Head Unit

- All services in Shark-Fin
- Connectivity module with tuners
- High Frequency SF (LTE, GNSS, V2X, WiFi)
- Tuners in Head Unit
Hidden Antenna Module
LTEx4, GNSS, SDARS, RKE

Benefits:

- Invisible: Embedded inside car roof.

- Multiservice: Includes LTE (MIMO up to 4x4), GNSS, SDARS and RKE.

- Modular: Single design, compatible with most car platforms.
Hidden Antenna Module
LTE x4, GNSS, SDARS, RKE

Technical Advantage:

- Single module.
- MIMO Configurations available for LTE
- Design optimized to improve services coexistence and LTE MIMO performance.
- In cars without roof, antenna module can be embedded in alternative locations. (Spoiler, Decklid)
- As an option and additionally, a low frequency module can be added. (AM, FM, DAB, TV)
Hidden Antenna Module
LTEx4, GNSS, SDARS, RKE

Application:
Transversal compatible with different car platforms.
- Sedan
- Hatchback
- Coupe
- Crossovers
- Touring
- SUV’s
- Vans
- 3doors
- 5doors
- Sedan
- Wagon