



Executive Overview

TITLE: COMMUNICATIONS HARDWARE

SUMMARY: This document is aimed at evaluating different available hardware platforms for the wireless communications in CARLINK.

GOALS:

1. Define the main needs in the communications hardware.
2. Analyze current available state-of-the-art wireless technologies.
3. Select the most suitable technology for the purposes of CARLINK.

CHECKLIST:

1. Band license requirements.
2. Transmission rate.
3. Transmission range.
4. Hardware availability.
5. Additional hardware availability.
6. Node mobility.

CONCLUSIONS:

1. 802.11 (WiFi) is the current best suited solution.
 2. UMTS presents hardware availability and functioning problems, Blue-tooth presents low performance.
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