ATP automotive testing papenburg

On board unit VCU

(Vehicle Communication Unit)

- vehicle tracking
- collision warning function directly V2V (Vehicle to Vehicle)
- voice communication to the drivers
- emergency call
- messaging to the drivers
- battery backup
- optional high accuracy (< 20 mm) position
- IMU (Inertial Measurement Unit) integration possible

DSRC WLAN network

- traffic control
- traffic management
- booking control
- own data communication network V2X (Vehicle to Infrastructure)
- no provider costs
- transmission of GPS correction data to the test vehicle
- optional: positioning without GPS indoor applicable (tunnel, workshop)
- compatible to other booking systems

Forward collision

warning	urgent	imminent
130 km/h	130 km/h	130 km/h
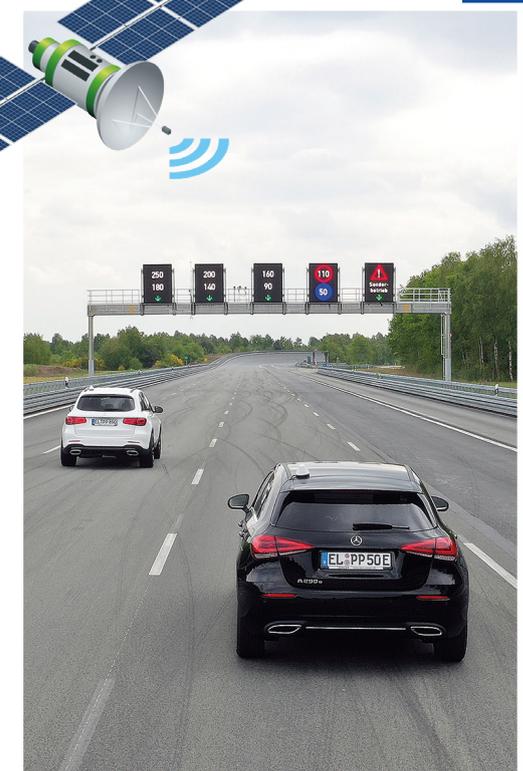
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TRAFFIC CONTROL SYSTEM

Traffic Management System Solution

including Collision Warning System

① Global Navigation Satellite System (GNSS)
② GNSS Reference Base Station
③ Data Transmission Radio Network/ Vehicle-to-Infrastructure (V2X)
④ Proving Ground Management System/ Control Centre
⑤ Access Control System
⑥ Traffic Management System
⑦ Vehicle-to-Vehicle (V2V) communication
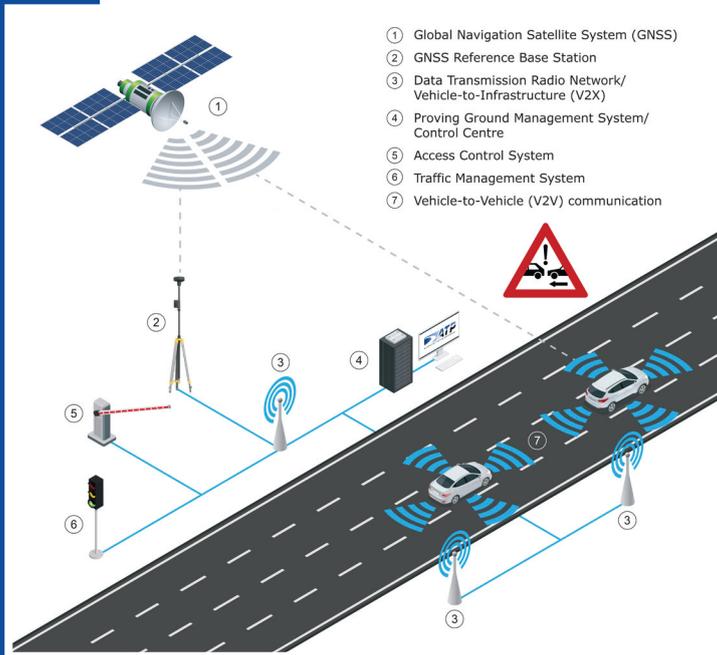
Based on defined standards

- WLAN 802.11p radio frequency

- ETSI Standards (European Telecommunications Standards Institute)

- ITS (Intelligent Transport Systems)

- ISO guidelines

Setup

WLAN/GNSS Antenna

Handset

VCU Main Unit

VCU Display

VCU Display

Handset
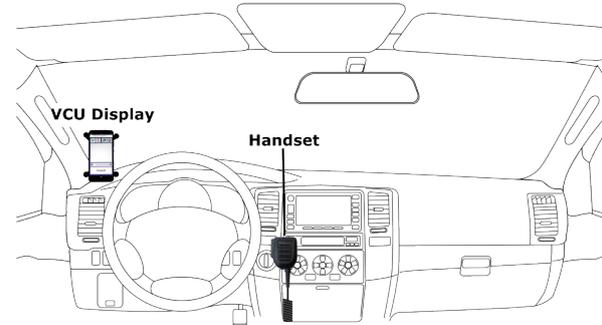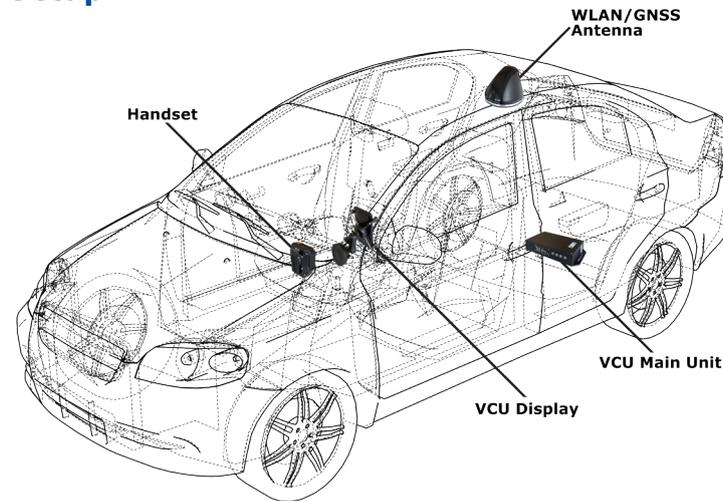
VCU Advantages

- easy to use

- stable function even under difficult conditions (loud vehicle noise, restricted freedom driver movement, etc.)

- system reduced to essential functions

Control centre

- safety management of traffic on the tracks

- traffic management on the tracks

- direct communication with the drivers

- support of the test teams in operation

- management of emergency operations