

# CarTag – Is your stock safe enough ?





CarTag Module

### Highlights

In recent years, the business of car theft has been transformed from “stealing the whole car” to “stealing car parts”. Criminals no longer steal the cars but prefer to take away parts of the car instead, often the parts on their “shopping” list.

Research shows that specifically parts of new cars are very popular among car thieves. New cars are often found in large quantities in parking lots at dealerships. Depending on brand and model, various parts are stolen. In general, airbags and aluminum rims are high on the hit list, followed by sat nav systems, mirrors, headlights and exhaust systems, which are very popular also.

Nowadays there are a number of systems on the market to counteract various types of theft. Unfortunately, these systems are often not (yet) active as long as the car is in the parking lot of the dealer. So, what benefit does a track- and tracing system deliver when the car is not stolen, but the rims instead? Even the latest rim security system is not able to scare thieves away from the airbag in case that particular car part is “ordered”.

To protect car dealerships against such vehicle crime, **BCE** developed the totally new **CarTag** concept. This has resulted in an easy to use, friendly to handle and flexible system to set up and a very reliable remedy for vehicle crime.

### The Concept

**CarTag** is a wireless monitoring system based on a self-organizing network of striking sensors which are laid on the car's dashboard to detect and analyse the vibrations of that specific car. In case of a break-in attempt, the sensor detects the event and immediately sends a direct or indirect alarm message to a base station inside one of the dealerships buildings.

The system then is able to inform both a remote monitoring station and/or inform staff members by sending them an alarm message via the Internet or SMS text.

Detection, analysis and alert occur long before thieves get the chance to take away the sensor. Defusing the sensor clearly makes no sense since the network keeps control of all connected units and will detect such act.

Additional to the mentioned sensor units, the system also provides miniaturized sensors, designed to monitor and protect airbags and other parts of cars at the inside, even during customers opening hours.

## CarTag Cloud Solution

The CarTag Cloud utility offers a user friendly graphical interface what helps you to configure, modify and monitor all active **CarTag** modules.

The following guidelines gives a brief overview of the Cloud facility:

- Setup with:
  - ◆ E-mail and Phone settings to send alarm message in case of an event
  - ◆ Sensor adjustment with adjustment and buzzer on/off
  - ◆ Time schedules of opening/closing hours per day
  - ◆ Event notification(s)
- Detailed information per connected car by:
  - ◆ Numberplate, Make, Model, Colour, Year and location
- CarTag status information with:
  - ◆ Signal strength, Battery status and last update received

The screenshots show the CarTag Cloud web interface. The top screenshot displays 'CarTag details' for a Renault Scenic with license plate 0025, including fields for merk, type, kleur, jaar, and comment, along with signal strength and battery voltage indicators. The middle screenshot shows a list of connected cars with details for 0025 and 0028. The bottom screenshot shows the 'Setup' page with sections for 'Email' (with fields for email and phone), 'Sensor setup' (with options for vibration sensor sensitivity and buzzer), 'Working hours' (with a table for daily schedules), and 'Events' (with options for notification triggers).

- **Technical specifications:**
  - Ethernet 10/100 Mbps
  - UTP RJ45 connection
  - Modbus/TCP; TCP/IP; UDP
- **Hardware:**
  - Based on low cost platform with IP stack
  - DIN Rail clips included
- **Software tools:**
  - DLL, ActiveX, VB, Delphi
- **Product options:**
  - Power supply
- **Order information:**
  - DIGI 9052
  - DIGI power adapter 230V/50Hz

## CarTag Sample configuration



## BCE Bos Consultancy Enterprises

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Besides **CarTag**, **BCE** represents a large number of international manufacturers specialized in video networks for cities and industrial zones, thermal camera's, switches, personal media radio systems, storage systems and covert solutions.

- **DigiController** - IP Based I/O controller supporting many connectivity protocols
- **Monet** - Wireless monitoring system to secure arts at museums
- **Opgal** - Thermal camera solutions up to 10Km. during Day time and 4Km. at night
- **Personal Media Relay System** - Advanced professional wireless multimedia + location, streaming and recording device with built-in GSM and GPS modem
- **RapidCam** - Wireless security system to protect cars for stealing parts from cars parked at dealer parking places
- **Solar MOCS** - Solar based fully stand alone camera system with built-in GSM modem used for covert operations
- **Thercam** - First ATEX approved Rapid Deployment Thermal Wireless Outdoor camera system
- **Wavesight** - Wireless Line Of Site (LOS) video network solutions for cities and industrial areas up a distance of 40 kilometer

In case you take more interest or wish to receive additional detailed information about the **CarTag** solution or one of the other products/solutions, please do not hesitate to contact us or one of our resellers.

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