

Case Study | Automatic Vehicle Identification

## Automatic Access Control at Kathrein Solutions



Bildquelle: KATHREIN Solutions GmbH.

### Challenge

The car entry to the company premises of Kathrein Solutions GmbH in Stephanskirchen had to be automated. A weather-resistant, robust system for the outdoor area was an additional requirement. It was necessary to develop and improve the entry for the employees into the site in an uncomplicated way without a lengthy handling.

### Background

Up to now, it was only possible to drive into the company premises with over 80 parking spaces using a master key or a remote. It was necessary to minimise the waiting times for the employees in front of the gate. Furthermore, the battery life was very limited, which led to permanent costs. The objective was to organise an efficient and employee-friendly entry into the company premises without the need to leave the car or wind down the window.

### Solution

It was decided to use the latest Kathrein reader generation with the integrated far-range antenna. Having the IP67 protection class, the reader is perfectly suited

for an outdoor installation. Due to the integrated Wi-Fi module of the ARU 3560, it is only necessary to connect the reader to the electric power supply. The employees received a passive UHF RFID windshield label for the identification of their vehicles. The reader communicates with the RFID windshield label which is attached to the inner side of the windscreen. When an employee drives up to the gate, the EPC (Electronic Product Code) of the transponder is read and compared to the white list stored in the reader. After the authorisation, the gate automatically opens via a GPIO connection. By means of the new LED technology, the access is also optically visualised.

### Results

Being a company that offers complete solutions, Kathrein, with its innovative solutions and technological perfection, was able to put this application into practice. This installation makes it possible for the employees to easily and quickly enter and leave the company premises without any waiting period or need to take the hands off the steering wheel. The reliable and secure RFID system made it possible for authorised vehicles to enter the company premises considerably faster and with much greater ease.