

# Vehicle access control solution with RF245 at SNUT



- \* **Location** : Seoul National University of Technology
- \* **Product** : RF245-10 (9 units), IDA 245 (2,000 cards)

- **RF245**: 2.45GHz long range reader
- **IDA245 Card** : Long range proximity active card

## Project Requirement >>

- 1) Due to the increased amount of traffic on campus, the univ needed effective systems to control traffic.
- 2) The need for one system which can identify vehicles from a long distance.
- 3) The need for robust and cost-effective products.

## Solutions >>

IDTECK has provided RF245 long range readers with IDA245 cards that can interface with any other S/W for parking solutions.

- 1) With its high radio frequency it can be perfectly used for access control with parking solution.
- 2) With customized management software, it is able to create multi-purpose reports based on visitor or attendance information



## Case Study >>

In Oct 2007, Seoul National University of Technology (SNUT) was looking for a parking solution which could offer access control & fast parking systems. Since the traffic through SNUT had been continuously increasing and cars from outside illegally parked on campus, parking problems became one of the biggest concerns on SNUT's campus. After discussing with IDTECK, SNUT decided to adopt a solution with the RF245 readers and IDA245 cards for traffic control. IDTECK has installed the readers at all of the 9 gates of the campus, and those readers are used to authenticate all the cars going into the campus and to charge parking fees either regularly or irregularly.

The RF245 is a 2.45GHz long-range reader specially designed for vehicle access control, logistics, personnel tracking, etc. This long-range reader comes with different read ranges of 10, 5, and 3 meters to suit specific application needs. The 2.45GHz frequency systems, which are categorized as the high radio frequency area, use active-type cards, which allows you to adjust the reading distance according to the needs at different sites. The roads on SNUT’s campus have 4 lanes, each of which is 4 meters wide. Considering that, IDTECK decided to set up the system for a 10-meter reading distance.

Regular visitors such as the professors and school staff at SNUT were provided with IDA245 cards, which they were asked to attach on the windhsield of their cars. Regarding the benefits of the system, one of the school officials named Kim commented, “After IDTECK’s system was introduced to the school, we’ve received a lot of positive feedback from our professors and staff. They like the fact that they no longer need to stop their car and roll down the window to scan their parking cards.” The fact that their cars are recognized 10 meters ahead of the entry/exit gate with no need to stop also contributes to a smoother flow of traffic on campus. “The campus has become a safer place with fewer cars because unauthorized cars can no longer enter the campus” added Kim.

## RF245 and IDA245 System >>

The RF245 is widely being used in Korea for parking solutions. Examples include Ilsan hospital (Qty: 7 units) and Yang Jae flower market (Qty: 4 units). Recently, IDTECK has signed a contract with the biggest farmers market in Seoul to install 38 RF245 units with 15,000 IDA245 cards.

This long-range reader system can be adopted in various environments where hands-free operation is desirable. For example, with RF245, the process of vehicle access control can be made more convenient and quicker as the drivers won't need to roll down their vehicle window to present their card every time they access the entrance. This system can also completely eliminate the inconvenience commonly experienced by those who can't freely use their hands, such as people with disabilities, medical staff at hospital operating rooms or emergency rooms, and warehouse employees who have their hands full. One example of special application is one of the biggest hospitals in Korea that has been using the system to keep track of the movements of the doctors. This has made the hospital staff work and move more efficiently and quickly within the hospital, especially in emergency situations.

An authorized distributor that’s been distributing the RF245 in the Korean market said, “IDTECK’s long-range reader products are very competitive in many respects. It’s hard to find a product of such a high quality at a reasonable price. The RF245 costs about 70% of what other products cost while offering a very good quality.” According to the distributor, the demand for IDTECK’s long range readers has been on sharp rise.