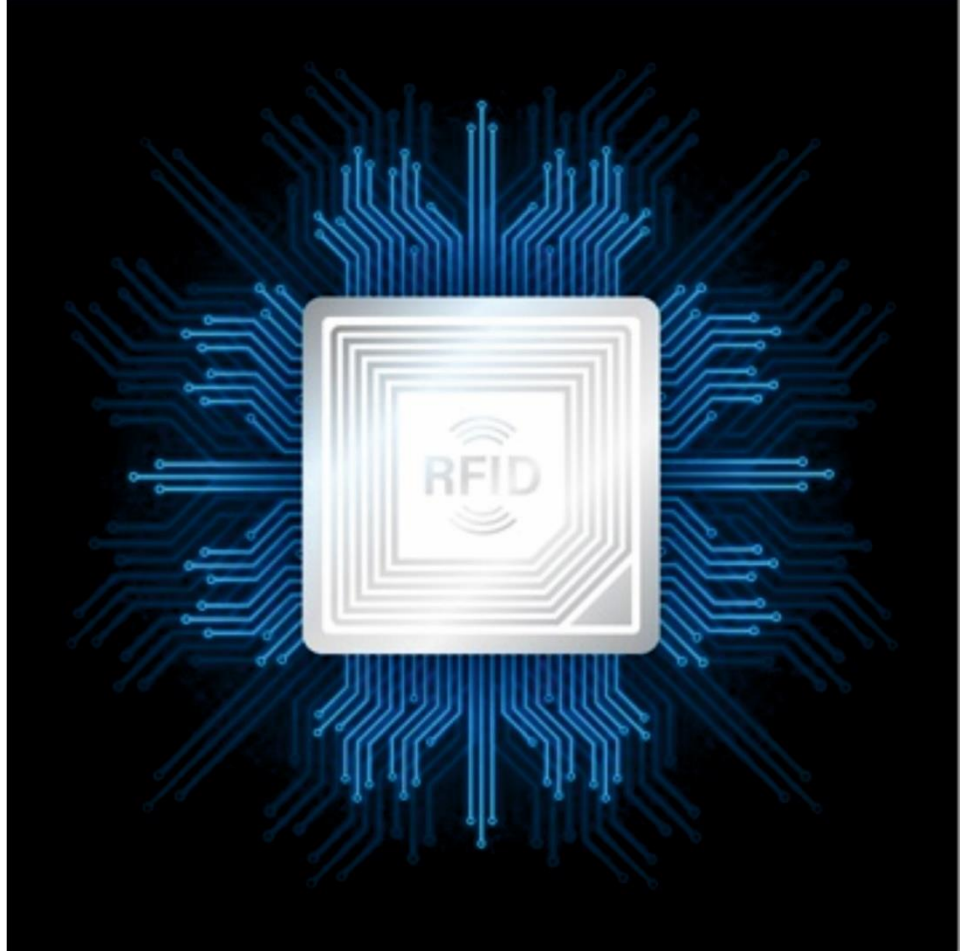
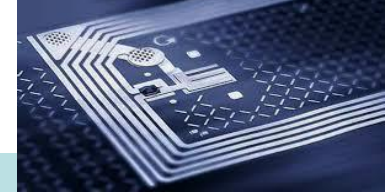


# RFID based Students Tracking and Security Solution



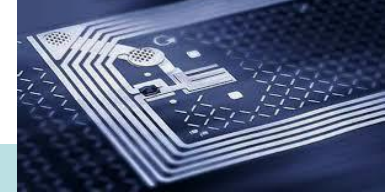
## SOLUTION Features



An unique systems developed with a technology called **Active RFID**.  
for the Schools with the following security features.

- Tracking of students
- **SOS** feature built in on the ID cards
- Monitoring the unusual activities in the area like Washrooms and other areas
- Tracking of students and staff on Emergency Evacuation
- Monitoring the Movement of students on the restricted areas

## Technology of the Solution



- **The Active RFID System is based on 2.4 Ghz RF power based transmitters and Receivers.**
- **The ID cards are battery Operated and transmits a very low milliwatt power of data packets.**
- **The RFID readers are of Read range within 30 meters or 100 meters depends on the models.**
- **Readers are of Various interfaces such as WI-Fi, TCP/IP ,RS232 or RS485.**



## Advantage of Active RFID

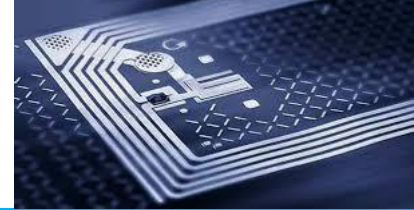
- It has Very long Reading Range of up to 200 Meters
- It can detect/Read the tags at the range wherever you keep such as inside the bag, Pocket or hanging on the neck etc
- It can read multiple tags of up to 500 pcs.
- No missing in reading
- It can be used in locating a person at different area using locator readers.
- SOS button on the ID card helps students to communicate to the monitoring centre on Emergency



## Application of Active RFID

- **Automatic Attendance capturing of students and teachers in School**
- **SOS button helps in any emergency situations ,which alerts the monitoring Centre.**
- **Searching of Students or Teachers location inside the campus.**
- **Helps in Checking the status of persons during any emergency evacuation.**
- **It can be used in locating a person at different area using locator readers.**
- **To monitor the unauthorised movement inside the campus**

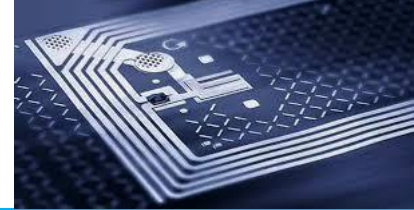
# Active RFID Reader



**Short Range Readers of  
10-30 meters Read Range**

**Long Range Readers of  
10-100 meters Read Range**

# Active RFID Card

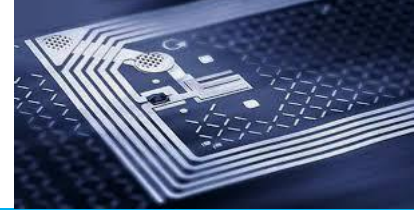


**SOS  
Button**

**These cards are available as a dual Frequency card with MI fare/NFC**

Note: The card image may differ from what is displayed

## Management Software

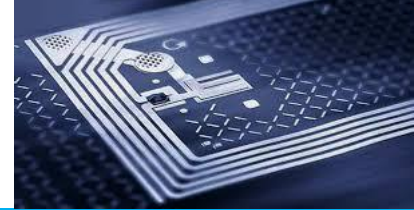


The Web enabled Attendance monitoring /Students Tracking Software with the Data capturing is designed to handle the Data collection form the RFID readers installed at various locations and has an optional features .

The RID reader installed will capture the students presents in the Read range and the same will be sent to the server as an online data capture mechanism .

- The Software can maintain the database of the Students and the staff with various standard details.
- The software can create multiple departments ,Staff category etc and the same will be linked to the respective staff .
- It can provide various login for the Management, Teachers and Students.
- It can generate various MIS reports such as Attendance details of the students ,staff based on various criteria.
- News bulletin or any notification can be added up and assign to the required login
- More features can be added up as a module based on the Requirements.





## Major Software Features

1. Automatic Capturing of the attendance of the Students/Teachers While entering through the Main Gate of the School and sending the SMS to the parents
2. Class wise /Period wise attendance capturing and automatically and send SMS or alert to the concern as an optional feature
3. Capturing of the Movement of the students at various area inside the premise.
4. Checking the details of the Students time spend in area like Nurse room; Detention room, library, sports hall, Gym, PRO's room, Canteen counter, washroom etc
5. Monitoring of the Detention of the Students with the hours.
6. Searching of any students instantly where they are located.
7. During any evacuation of student it is easy to monitor who is still inside the premise.
8. Library management with the RFID cards
9. Canteen management with the RFID cards.
10. Various payment system using RFID cards which is cashless.
11. Geographical position finding of the Students/Teachers.
12. SMS alert for the Pickup/ Drop of the students to the parents by installing readers in School Van
13. Along with this various activities or process in the school such as Time table management, Fees management, Transportation management and other activities management modules can be added.
14. We can provide multiple Software logins for the Administrator, Teachers, Parents and student where they can view the details related to their activities or privileges.
15. News bulletin and the Instruction for Teaches/Management can be displayed while Log in to their credential.

**THANK YOU**



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