ABSTRACT

Existing parking system is currently still manual, in particular vehicle numbers is input by officers into a computer, and then in-print. The parking ticket that given is just a plain paper containing numbers and hours of incoming vehicles. Payment transactions carried out by parking attendants are also less efficient, because the level of official error is still high when counting the cost of parking and the change. through these problems an idea has been triggered to create a parking system subscription using RFID as a sensor that can identify the identity of the owner on the vehicle as a name, vehicles, number , addresses, and balances.

How to subscribe to the work of this parking system is an RFID tag mounted on the vehicle will be registered as a member of the parking subscription, while the RFID reader will be installed at the entrance and exit. RFID reader will detect any vehicle passing through the park gates. The result of RFID reader will be sent serially to personal computer and identified that exist on the server or not. Subscribe parking system uses microcontroller ATMEGA 8535 as a regulator and interface between RFID and personal computer.

Form of the output expected from making this final project is to produce a prototype of a parking system using RFID technology to subscribe. Output expected from this project not only in the form of hardware, but also in the form of software program used to run a command for the existing hardware and database server which using Visual Basic.Net for interfacing. Hardware modules produced in the form of entrance or exit modules.

Keyword : RFID, Mikrokontroller ATMEGA 8535, Visual Basic.net