

ABSTRACT

Information security had increasingly become a major issue of concern in most applications. This report documented how data encryption could be implemented as a coding method to ensure the security of information transmission taking place through data confidentiality.

In this project, the information was text message in the form of ASCII codes and will be encrypted before transmitting wirelessly using RF modules. The designed encryption algorithm was mainly based on the technique of shifting, substitution and permutation. PIC microcontrollers were used for the encryption and decryption operations.

With this report, every single detail of information led to the design of the hardware and software system was covered in easy-to-understand manner. For more technical information, references were given in Appendix.

Overall, the project was successfully and developed system should well support for low security wireless information transmission application.

The soft copy version of this report was provided in the attached CD in Appendix K.