

ABSTRACT

The Internet of things (IoT) has made a major contribution to the development of communication technology in our daily lives. The ease of adopting this technology is strengthened by the increasing number of electronic devices that are connected to each other via the internet as shown by the results of previous research. However, the large growth in the number of uses of this system should be in line with the great concern for taking security measures on IoT system communications.

For example, cybercrimes may be committed against IoT systems that do not use the correct topology and protocols, or data sent from IoT sensor devices are not properly protected. This study proposes a secure communication path between IoT sensor devices to the Internet. This study demonstrates the communication protocol with the AES encryption system.

Keywords: *IoT, AES Encryption, Microcomputer, Cyber Security.*