Annotation

In this thesis, we studied a smart home system built using the Thread Protocol. Relevance of the topic determine the advantages of the Thread Protocol for a modern smart home from other protocols. The first part deals with the analysis of smart home systems. Thread technology and its advantages and equipment for a smart home are being studied. A brief overview of such issues as the current state of the smart home, the need for a new wireless communication standard. The second section presented a mathematical model of the Thread network in MatLAB and software codes in a special Docker program. During the work, it was provided to control the house using a special microcontroller or Android smartphone.