

Abstract

This master's thesis studies technology for building the IoT controller hardware platform based on currently implemented hardware and software solutions. The analysis of the existing hardware platforms is carried out, on the basis of which the functional hardware platform of the lowest cost was selected. Calculations of the maximum possible number of records in the database for predicting the storage time of data in the platform's memory are given. A specific model of the manufacturer of mini-computers and an operating system with great functionality are proposed, which made it possible to create a simulation model for the study.