Design of Embedded Systems

ESSTA, Energy Saving Smart-home distributed Temperature control Application

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1 Introduction

The goal of this project is to realize a smart-home application to control the temperature of different room in order to minimize the consumption of the entire building.

The system is composed by two differ modules

1.1 Room module

The aim of this moduler is to get the temperature and the motion inside a room and send the data periodically to the central unit. The module is composed by:

- Temperature sensor
- Humidity sensor
- Motion sensor
- Valve actuator
- Wireless communication module

1.2 Temperature control

1.3 Central unit

Appendices

References

[1]