URN etd-0407109-183716-1249
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Statistics This thesis had been viewed 73 times. Download 0 times.
Department
Year 2004
Semester 1
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title The Study of Power Line Transmission Control Based on LonWorks Technology
Date of Defense 0000-00-00
Page Count 61
Keyword
Power Line Control
Neuron chip

Abstract
This thesis presents a power line control appliance system. The proposed system is realized by using LonWorks network and related hardware circuit. LonWorks technology is implemented through microcontrollers, called Neuron Chip. The objective of this research is to utilize the criterion of LonWorks technology to develop the intelligent home appliance automation system. In this home automation system, the main transmission medium is constructed with power line, which is the most essential communication in the home. Finally, a complete serial gateway and link with the power line control system has been achieved in this thesis by Visual basic.
Advisory Committee Ming-Tsun Tsai - advisor

Files No Any Full Text File.
Date of Submission 2005-08-23