Abstract
Inherent characteristic of an embedded system is it is tightly constrained system. To meet such design and implementation challenge, special purpose hardware and software is needed. In this scenario, ARM processor architecture along with RTOS provides best possible choice for system design and implementations. In most of the industrial applications, MODBUS protocol is commonly employed for communication among various devices. The work described in this paper consists of realization of MODBUS protocol using µCOS-II RTOS on ARM 7 processor (LPC 2148). The protocol has been implemented and system is tested successfully. The paper also presents the test results of the work carried out.

Reference

- Bo Cui Guangbin Xu, “Design and Realization of an Intelligent Data Acquisition and Display System Based on AT89C52 and Modbus”, IEEE 2009 ISECS International Colloquium on Computing, Communication, Control, and Management
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- MODBUS application protocol specification.
- Micrium. µC/OS-II Home Page.

Index Terms

Computer Science

Wireless
### Key words

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