Abstract

The development of microcontroller is used in monitoring and data acquisition recently. This development has born various architectures for spreading and interfacing the microcontroller in network environment. Some of existing architecture suffers from redundant in resources, extra processing, high cost and delay in response. This paper presents flexible concise architecture for building distributed microcontroller networked system. The system consists of only one server, works through the internet, and a set of microcontrollers distributed in different sites. Each microcontroller is connected through the Ethernet to the internet. In this system the client requesting data from certain side is accomplished through just one server that is in turn communicate with required microcontroller for acquire data.

References

- Ali M. F. M., Younis M. I., Zamli, K. Z. and Ismail, W., "Development of Java based RFID application programmable interface for heterogeneous RFID system", The


- Oracle Data Sheet, "MYSQL"; Oracle and/or its affiliates, 2011.
- "Serial Ethernet"; manual, MikroElectronika,

Index Terms

Computer Science
Networks
Keywords

Acquisition  Monitoring  Scalability  Reusability  Economical  and microcontroller.