ABSTRACT

The aim of home automation is to control home devices from a central control point. In this paper, we present the design and implementation of a low cost but yet flexible and secure internet based home automation system. The communication between the devices is wireless. The protocol between the units in the design is enhanced to be suitable for most of the appliances. The system is designed to be low cost and flexible with the increasing variety of devices to be controlled. Networking is a major component of the processes and control instrumentation systems as the network's architecture solves many of the Industrial automation problems. There is a great deal of benefits in the process of industrial parameters to adopt the Ethernet control system. Hence an attempt has been made to develop an Ethernet based remote monitoring and control of home appliances. In the present work the experimental result shows that remote monitoring and control system (RMACS) over the Ethernet.

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ACRONYMS & ABBREVATIONS

LAN	Local Area Network
MAN	Metropolitan Area Networks
WI-FI	Wireless Fidelity
TQFP	Thin Quad Flat Package
MLF	Micro Lead Frame
CSMA	Code Segment Multiple Access
CDMA	Code Division Multiple Access
MAC	Media Access Control
OSI	Open System Interconnection
LLC	Logical Link Control
LED	Light Emitting Diode
QFN	Quad Flat No-leads package
XTAL	Crystal Inputs
SRAM	Static Random Access Memory