Abstract

ARM processor based servers are becoming trend of today’s market instead of pc based servers. Ethernet module along with ARM processor form the Embedded Web Server, that provides a flexible management function and remote device monitoring based on Internet browser. Without the use of a computer, Ethernet module can communicate to the owner of the overall system, who is able to manage appliances from any location outside. This server provides a powerful networking solution and enables web access for automation and monitoring of different systems. This paper focuses on development of low cost system for automation, instrumentation and household devices control and the understanding of TCP/IP suite and user development platform for this embedded web server. Different sensors installed at working place help in sensing real time environmental conditions like temperature, light, humidity etc.

References

Index Terms

Computer Science

Embedded Systems

Keywords

ARM, Embedded, Web server, Ethernet, TCP/IP, Server, FPGA, Internet