



"Embedding thoughts into Technology"

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Network enabled 8051 Development Board

Client:

In house development

Requirement:

To provide ethernet network connectivity to an ETM110 8051-based development board. The controller used should be Realtek's RTL8019AS ethernet controller.

Solution:

The Realtek RTL8019AS ethernet controller driver was used to suit the above requirement. We have written our own proprietary stack for this purpose. The TCP/IP stack implements all the basic protocols viz. TCP, UDP, ARP, IP, HTTP, DHCP. Using these stack modules, we implemented the application. It provided successful connectivity over the LAN (local area network) and WAN (wide area network).

Tools/Platforms:

- » Realtek RTL8019AS Ethernet controller interfaced to Philips 89v51RD2
- » Embin' proprietary TCP/IP stack (royalty free)
- » ETM110 development board (designed by Embin)