



"Embedding thoughts into Technology"

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Microchip TCP/IP Stack Implementation

Client:

US based company.

Requirement:

To provide TCP/IP network connectivity to an external embedded system. The controller used should be Microchip's ENC28j60 ethernet controller. Also Microchip's proprietary TCP/IP stack should be used.

Solution:

The ENC28j60 ethernet controller driver was provided by Microchip and we modified it to suit the above requirement. The TCP/IP stack implements all the basic protocols viz. TCP, UDP, ARP, IP, HTTP, SNMP, TelNet, NNTP, DNS, 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:

- » ENC28j60 interfaced to PIC18F87j10 via SPI
- » Microchip TCP/IP stack
- » Microchip MPLAB ICD2
- » MPLAB IDE v7.40