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 [PICDEM.net™ Internet/Ethernet Demonstration Board](#)

**Summary:**

The PICDEM.net™ demonstration board is an Internet/Ethernet demonstration board using the PIC16F877 microcontroller and TCP/IP firmware. The board supports any 40-pin DIP device that conforms to the standard pin out used by the PIC16F877 or PIC18C452.

**Description:**

The firmware used for the network interface was developed by Jeremy Bentham of Iosoft Ltd. based on his book TCP/IP Lean: Web Servers for Embedded Systems (ISBN: 1-929629-11-7). The board comes pre-configured with an Ethernet and IP address. Simple set-up instructions are provided to connect the board to your system and quickly evaluate the TCP/IP firmware. The PICDEM.net supports Ethernet and RS-232 interfaces. A standard web browser such as Microsoft® Internet Explorer or Netscape™ Navigator is used to view HTML web pages that are generated by the PICmicro® microcontroller itself.

The demo board is also equipped with a 6-pin modular connector to interface directly with the Microchip In-Circuit Debugger (ICD). With the addition of the ICD (sold separately, P/N DV164002) the developer can now modify or reprogram the onboard FLASH-based PICmicro microcontroller to meet the specific needs. A generous breadboarding area is also available to add your special circuits for experimentation. It is large enough to add an embedded modem to provide for dial up capability. Several status indicators and user interface devices are provided, including a 16 x 2 LCD indicator and LEDs.

**Features:**

- User friendly TCP/IP stack
- Web server with HTML
- 24L256 Serial EEPROM
- Firmware for Xmodem to download web pages into Serial EEPROM
- ICSP™/ICD interface connector
- Ethernet interface
- RS-232 interface
- 16 x 2 LCD display

**The PICDEM.net kit includes:**

- Demo Board
- Textbook: TCP/IP Lean: Web Servers for Embedded Systems
- PIC16F877 MCU
- Firmware by Iosoft Ltd.
- MPLAB® IDE Software
- PICDEM.net User's Guide
- CAT 5 Ethernet Cable
- DB9 Serial Cable
- Universal Power Supply

**Ordering Information:**

Model Name: PICDEM.net™ Demonstration Board  
Ordering Part Number: DM163004

**Host System Requirements:**

- PC compatible machine with 486 or higher processor
- 4MB RAM, 16MB recommended
- 2MB available hard disk space
- Microsoft® Windows® 95/98/NT®
- CD ROM Drive
- One serial port

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