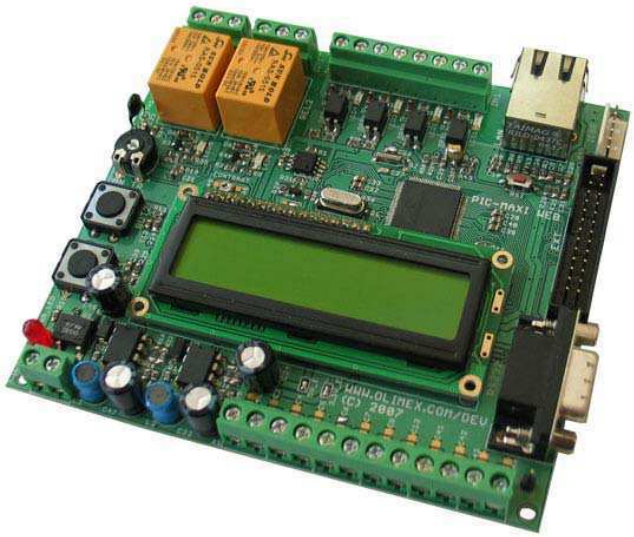
# Olimex - PIC-MAXI-WEB - Ethernet - EVK

## Product Overview:



This board allows you to easily develop Ethernet connectivity applications. It has everything you normally would need for such applications: power relays which you can command through web interface, LCD display which will display messages you fill in web forms, analogue inputs for connection to sensors, digital opt-isolated inputs, trimmer potentiometer, temperature sensor, and Ethernet connector. With this board you can easily automate your home and then control and monitor it from any point in the world via Internet. An extension connector is available so you can connect custom made hardware to the board. The PIC18F97J60 has 128KB Flash program memory and there is external 1Mbit (128KB) flash memory for data storage. The on board DC/DC converter makes this board very tolerant to the external power supply which could be in 9-25V DC or 7-18V AC range. The bridge rectifier on the input allows AC and DC adapters to be used and makes power supply polarity problems go away.

## Kit Contents:

The PIC-MAXI-WEB contains the following items:

- LCD 16x2 with backlight
- Main control circuit board

## Key Features:

The PIC-MAXI-WEB development board has the following features:

- PIC18F97J60 microcontroller with embedded Ethernet MAC and PHY and 128KB Flash programming space
- 1Mbit on board serial flash for web pages storage
- ICSP/ICD connector for programming and debugging with PIC-ICD2 and PIC-ICD2-POCKET.

- Temperature sensor
- Trimmer potentiometer connected to analogue input
- Two relays 10A/250VAC
- Four opt-isolated digital inputs
- Twelve analogue inputs on terminal block
- Two buttons
- LCD16x2 with backlight
- RS232 interface
- Ethernet interface
- Complete web server and TCP-IP stack support as per Microchip's open source TCP-IP stack
- Terminal block for power supply works with 9-25 VDC power supply
- Extension header to connect to other boards
- Dimensions 120x108 mm (4.72x4.25")

## Ordering Information:

### Products:

| Part Number | Manufacturer | Farnell P/N | Newark P/N |
|---|---|---|---|
| PIC-MAXI-WEB | Olimex | 1701534 | 25R4923 |

### Associated Products:

| Part Number | Manufacturer | Description | Farnell P/N | Newark P/N |
|---|---|---|---|---|
| PIC18F97J60-I/PT | Microchip | 8-Bit Microcontroller IC | 1439573 | 56K7318 |

### Similar Products:

| Part Number | Manufacturer | Description | Support Device | Farnell P/N | Newark P/N |
|---|---|---|---|---|---|
| PIC-MINI-WEB | Olimex | Web Server TCP-IP Development Board PIC Microcontrollers | PIC18F25J10 | 1701533 | 25R4924 |

# Document List:

## Datasheets:

| Part Number | Description | Size |
|---|---|---|
| PIC18F97J60 | 64/80/100-Pin High-Performance, 1-Mbit Flash Microcontrollers with Ethernet | 7.56MB |

## Application Notes:

| File Name | Size |
|---|---|
| Emulating Data EEPROM for PIC18 and PIC24 MCUs and dsPIC DSCs | 368.43KB |
| Class B Safety Software Library for PIC MCUs and dsPIC DSCs | 398.64KB |
| The Microchip TCP/IP Stack | 429.14KB |
| An SNMP Agent for the Microchip TCP/IP Stack | 564.53KB |
| Understanding PIC WEB Boards and How to Use Microchip's TCP-IP Stack | 497.86KB |

## Hardware & Software:

| File Name | Size |
|---|---|
| PIC-MAXI-WEB REV.A schematic | 105KB |
| Microchip-5.00 Stack Free Microchip's TCP-IP Stack | 436KB |