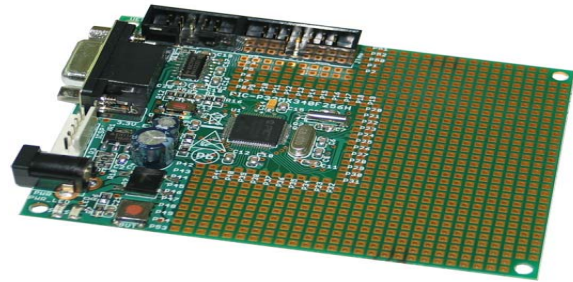# OLIMEX

Olimex - PIC-P32MX - Ethernet – Evaluation Kit

Product Overview:

The NEW PIC-32MX board uses the new PIC32 32 bit MIPS 4K core processor from Microchip which offers speed and performance at low cost. This board has PIC32MX340F512 microcontroller on it with its 512 KB of Flash, 32KB RAM, 80MHz clock, UARTs, PWMs, DMAs. The board has both ICSP and JTAG connectors so it can be programmed with PIC-ICD2 or JTAG tool.

Key Features:

The PIC-P32MX prototype board has the following features:

- PIC32MX340F512 microcontroller
- UEXT connector for other Olimex modules like MOD-MP3, MOD-NRF24Lx, MOD-SMB380, MOD-RFID125 etc.
- ICSP/ICD connector for programming with PIC-ICD2 or PIC-ICD2-POCKET.
- JTAG connector
- RD232 interface with driver
- Quartz crystals 8 MHz and 32768 Hz
- Status LED, User button, Reset button
- Power plug-in jack with diode bridge can be powered with AC or DC power supply
- 3.3V voltage regulator
- Extension slot on every uC pin
- Gird 100 mils
- GND bus, Vcc bus
- Four mounting holes 3,3 mm (0,13")
- FR-4, 1.5 mm (0,062"), green solder mask, white silkscreen component print
- Dimensions 100x80 mm (3,9x3,15")

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
PIC-P32MX	Olimex	1701531	25R4926

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
PIC32MX340F512	Microchip	32-Bit Microcontroller IC	1677915	98M1931

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
PIC-USB-4550	Olimex	Prototype board for development of USB application with PIC18F4550	PIC18F4550	1701541	25R4930

Document List:

Datasheets:

Part Number	Description	Size
PIC32MX340F512	64/100-Pin General Purpose and USB 32-Bit Flash Microcontrollers	3.09MB

Application Notes:

File Name	Size
An HTTP Server Using BSD Socket API	553.93KB
Microchip TCP/IP Stack with BSD Socket API	559.72KB
SNMP Agent using BSD Socket API for PIC32MX	682.17KB
FTP Server using BSD Socket API for the PIC32MX	416.09KB
Microchip TCP/IP Stack Application Note	429.14KB

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Hardware & Software:

File Name	Size
PIC-P32MX Silkscreen image	82KB
PIC-P32MX Schematic	49.6KB
Button Read Demo Code	36.5KB
TIMER1 + Button + UART Demo Code	44.5KB
UART with Interrupts Demo Code	39.8KB