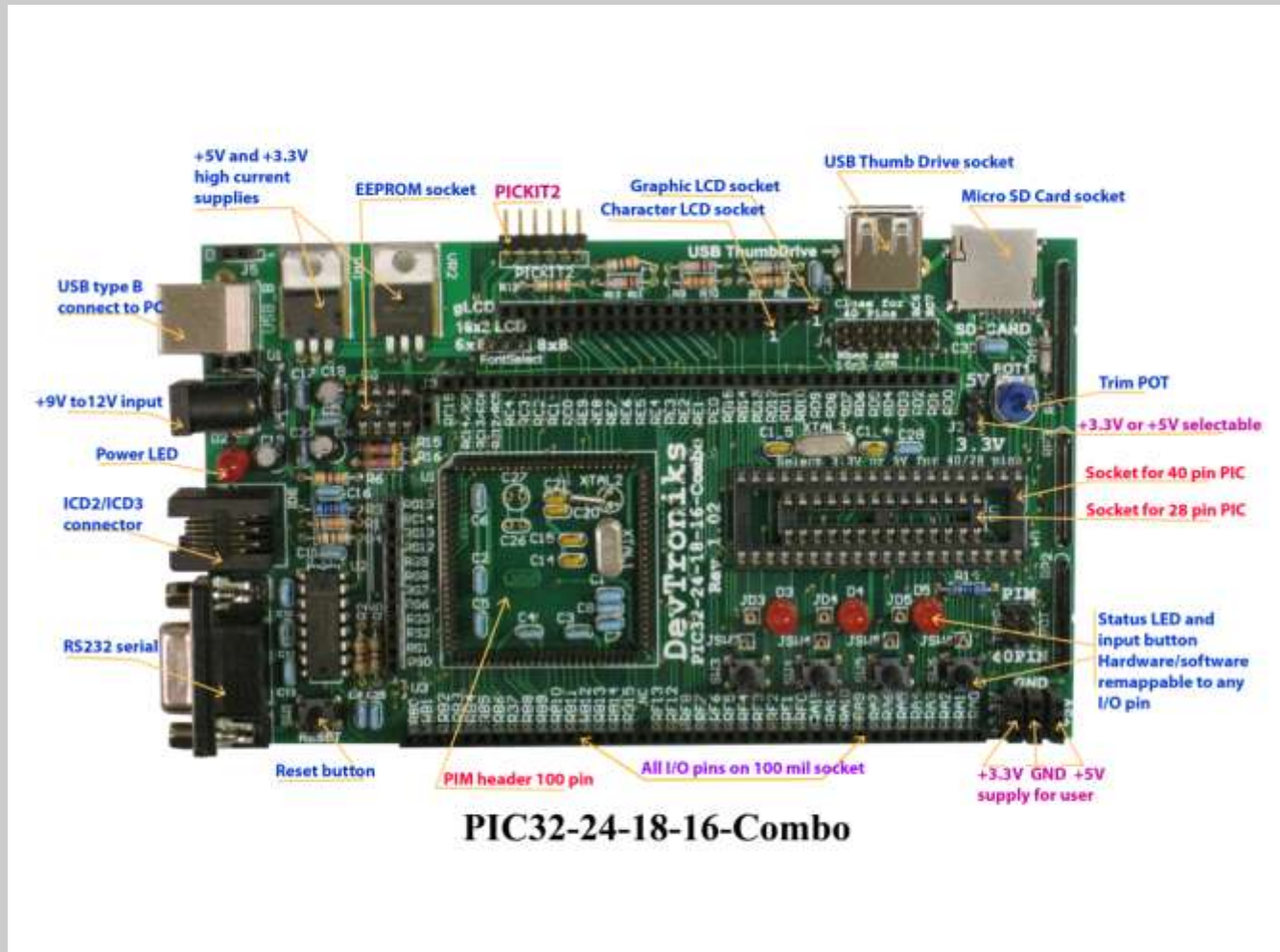


## PIC32-24-18-16-Combo

## SINGLE BOARD FOR MANY PIC



**PIC32-24-18-16-Combo**

The PIC32-24-18-16-Combo (or PIC-Combo) is an experimental development board designed by [DevTroniks](#). Its integrate circuitries to function close to the combination of Explorer16™, PICDEM™ FS USB, PICDEM2™ PLUS and more. The PIC-Combo board provides the easiest and a cost-effective method of evaluating and developing applications for wide range of the PIC families. With PIC-Combo, user can rapidly evaluate PIC32, PIC24, dsPIC, PIC18 and PIC16 families without the need of owning several different evaluation boards.

### Board Capability:

Can run demo program of the Explorer16™	Example code and HEX included
Can run demo program of the PICDEM™ FS USB	Example code and HEX included
Can run demo program of the PICDEM2™ PLUS	Example code and HEX included
Can run demo program of ETHERNET TCP/IP (ENC28J60)	Example code and HEX included
Can run demo program of USB Thumb Drive	Example code and HEX included

Can run demo program of SD_MMC Card	Example code and HEX included
Build in socket for 16x2 (or 20x2 or 20x4) character LCD	HD44780 Character LCD or compatible
Build in socket for Graphic LCD	for KS0108 or T6963 or compatible
Build in type A socket for USB THUMB DRIVE	
Build in socket for MICRO SD CARD	
Build in type B socket for USB connection to PC	
Support for MCUs in DIP28, DIP40 and 100 pins PIM packages*	

- \* Support DIP28 that pin compatible with PIC18F252, PIC18F2550
- \* Support DIP40 that pin compatible with PIC18F452, PIC18F4550
- \* Support PIM that run on Explorer16 (such as PIC32, PIC24 and dsPIC)

### **BOARD FEATURES:**

VDD selectable for 5V or 3.3V by jumper	
Four statuses LED	
Five push button switches	
All I/O pins are 100 mils socket for easy connect to other board	
Through hole for user friendly	
Quartz crystals 20MHz, 8 MHz and 32768 Hz	
Extra +5V, +3.3V and GND available on sockets for user	
Build in socket for 16x2 (or 20x2 or 20x4) character LCD	
Build in socket for Graphic LCD	
Build in type A socket for USB THUMB DRIVE	
Build in socket for MICRO SD CARD	
Build in type B socket for USB connection to PC	
Small size 3.5" x 6" (90mm x 152mm)	

**[Include all working examples with source code for MPLAB C18 and C30:](#)**

**Graphic Demo**

**Ethernet Demo**

**PICDEM™ FS USB demo**

**USB Thumb Drive Demo**

**Explorer16™ Board Demo**

**SD Card Demo**

**PICDEM2™ PLUS Board Demo (in assembly)**

--- The examples come in a CD ---

## Detail on examples:

**Graphic Demo:** PIC24FJ128GA010 PIM required  
T6963 240x128 gLCD required

This program shows how to display text and graphic on the T6963 240x128 Graphics LCD (gLCD). Also show how to animate graphics and how to display text and graphic on the same screen.

**ETHERNET TCP/IP (ENC28J60):** PIC24FJ128GA010 PIM required  
ENC28J60 Module required

This demo program from Microchip, it implement TCP/IP stack. It setup a web server with a dynamic web page and allow user to interface with the PIC through web. Read POT value; turn ON/OFF LED on the board.

**PICDEM™ FS USB demo:** PIC18F4550 required

This demo program is from Microchip PICDEM™ FS USB demo, for user to evaluate Full Speed USB communication.

**USB Thumb Drive demo:** PIC24FJ256GB110 PIM required  
USB Thumb Drive required

This demo program use Microchip MDD file system to write files to a thumb drive. The program will create directory and sub directory to the thumb drive.

**Explorer16™ Board Demo:** PIC24FJ256GB110 PIM required

This demo program from Microchip Explorer16™ Board Demo, the program displays PIC24 features on the alphanumeric LCD, and displays voltage, temperature and date/time as the various buttons are pressed.

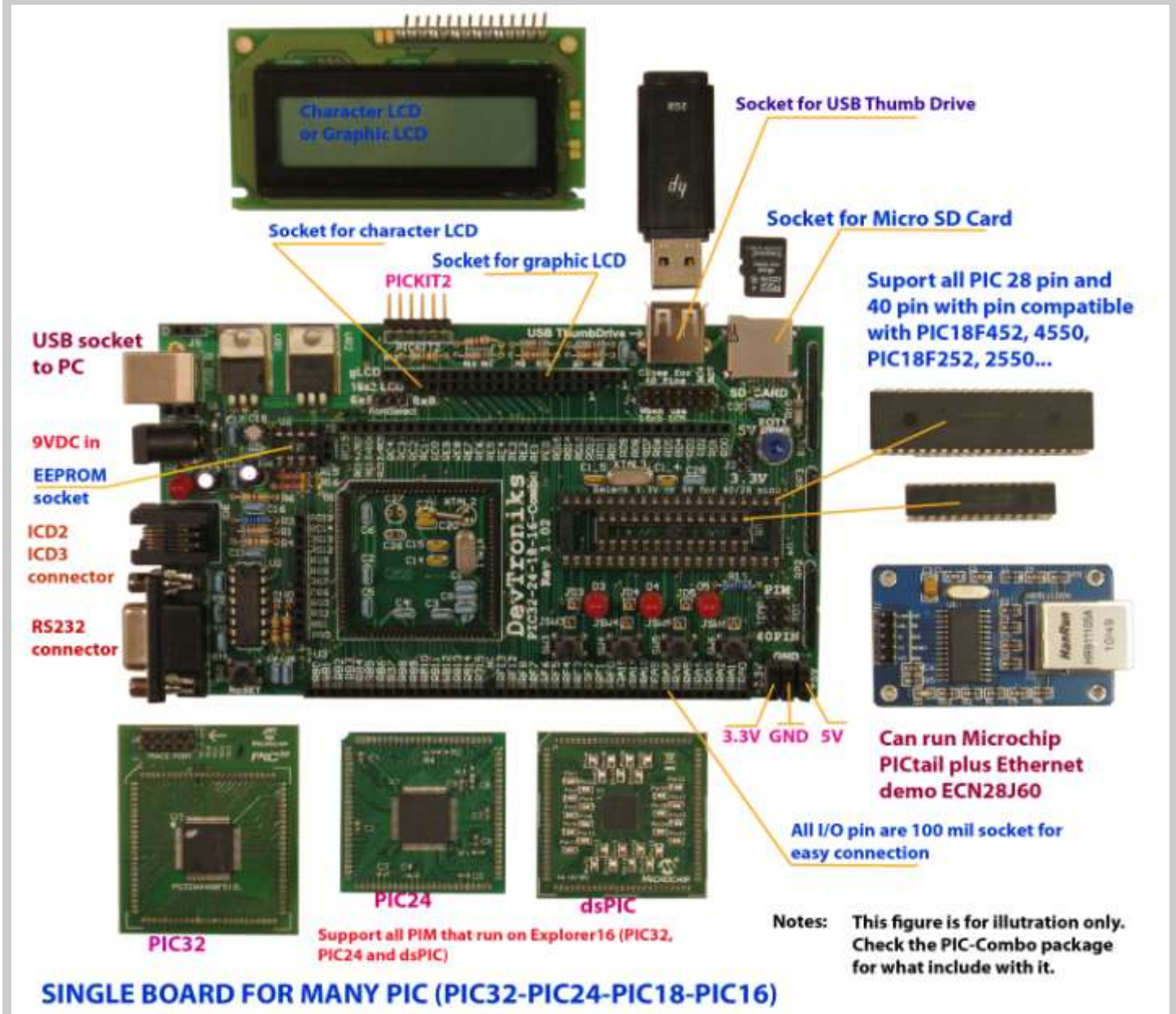
**SD Card demo:** PIC24FJ128GA010 PIM required  
Micro SD Card (2GB max) required

This demo program use Microchip MDD file system to write files to a SD card. The program will create directory and sub directory to the SD Card.

**PICDEM2™ PLUS Board Demo:** PIC18F452 required

This modified demo program from Microchip PICDEM2™ PLUS Board Demo, the program demonstrates the alphanumeric LCD display displays voltage and clock on the LCD.

# PICTURE FOR POSSIBLE EXPERIMENTS (FOR ILLUSTRATION ONLY)



## The PIC-Combo includes:

- ONE PIC32-24-18-16-COMBO DEVELOP BOARD
- ONE CD WITH DEMO SOFTWARE and instructions
- ONE 16x2 character LCD
- ONE PIC18F452 (preprogrammed with PICDEM2™ PLUS Board Demo)

### NOTES:

PIM for PIC32MX, PIC24 and dsPIC can purchase from Microchip or Digikey.

They will be available at DevTroniks in near future.