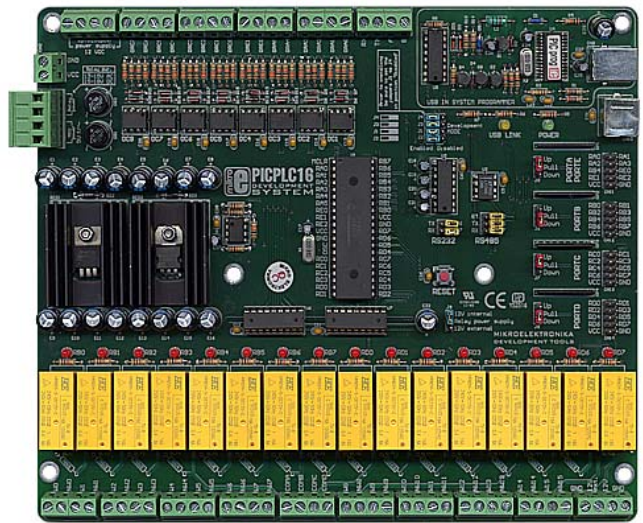


16 optocouplers input, 16 relay output + RS485 and RS232 communication

PICPLC16

with on board USB programmer !

PICPLC16 is a system designed for controlling industrial systems and machines. 16 inputs with optocouplers and 16 relays (up to 10A) can satisfy many industrial needs. PICPLC16 can serve as remote control system by means of RS485 communication. Each relay has its own varistor so that the spark does not damage the contacts. When boxed, the system may be used in moist and dusty environment.



Jumpers for enabling and disabling **USB programmer** on board.



RS-485 communication for connecting multiple devices into a network.



RS-232 communication for connecting to PC or another device.



Screw terminal for easier connection with the external peripherals.



Two part power supply **screw terminal**.



Every port can be set to **pull-up** or **pull-down** resistors.



Selectable relay **power supply**.



16 input lines with optocouplers (fast HP2630 optocouplers with Smith trigger).



PIC18F452 is the microcontroller powering the PICPLC16. 32KB of memory, 40 pins, ADC...



Each Relay have LED for optical signalization.



All pins are marked from both sides of the board.



PS / 2 connector for PC keyboard.

mikroElektronika - PicFLASH Programmer [v5.0.06.2005]

File Device Buffer Windows USB About

Configuration Bits

Oscillator Ext.RC - RA6 as IO
Fail-safe CLK Monitor Disabled
INT. / EXT. Switch over Disabled
Brown Out Voltage 2.0 V
Brown Out Detect HW Enabled
Power Up Timer Disabled
Watchdog Postscale 1:32768
Watchdog Timer Enabled
External Bus Wait No Wait
Data bus Width 16-bit
Address bus Width 20-bit
Processor mode Microcontroller

ID Locations
 FF FF FF FF FF FF FF

Code Protect Clear

☐ Data EEPROM
☐ Code 00000-007FF
☐ Code 00800-03FFF
☐ Code 04000-07FFF
☐ Code 08000-0BFFF
☐ Code 0C000-0FFFF
☐ Code 10000-13FFF
☐ Code 14000-17FFF
☐ Code 18000-1BFFF
☐ Code 1C000-1FFFF

Table Write Protect

☐ Configuration Bits
☐ Data EEPROM
☐ Code 00000-007FF
☐ Code 00800-03FFF
☐ Code 04000-07FFF
☐ Code 08000-0BFFF
☐ Code 0C000-0FFFF
☐ Code 10000-13FFF

Device: PIC18F8722

Read Write
 Verify Blank
 Erase

Load HEX
 Reload HEX
 Save HEX
 Buffer - Erase
 Buffer - Randomize
 CODE EEPROM
 Options

Program Memory Size: **128 KB** Device Status: **Idle** Type
 EEPROM Size: **1024 Bytes** Address: **0h** Revision

Progress: 0%

File: C:\PROGRAM FILES\MIKROELEKTRONIKA\MIKROC\EXAMPLES\P16F877A\LED_BLINKING\LED_BLINKING.HEX
 Device: PIC18F8722 Operation: None

USB on-board programmer - PIC Flash: You will get the USB programmer which doesn't use boot loader or any similar way of programming. The whole PIC memory and all pins are available to you. If you do use boot loader, you have to leave some RAM memory for this propose, and it is generally not a such good idea if you program in Pascal, C, or Basic. Also if you use low-level programming (5 VDC instead 12.5 VDC), note that you lose RB6 pin. PIC Flash have voltage pump and generate 12.5 VDC so you have all pins for your project. Aside from that, you will have state-of-the-art fast USB PIC In-System programmer for your future projects.

