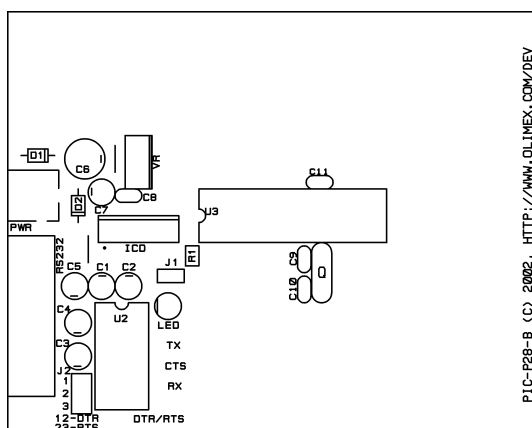


## PIC-P28B PROTOTYPE BOARD FOR 28 PIN PIC MICROCONTROLLERS

### **Features:**

PIC-P28B is prototype board for 28 pin PIC microcontrollers with following features:

- RS232 Tx, Rx interface with MAX232 IC
- ICD/ICSP 6 pin connector
- Status LED connected to RA0 via removable jumper
- 4MHz, or 20MHz quartz oscillator
- extension slot on each microcontroller pin
- DIL28 microcontroller socket
- power supply plug in connector
- +5V power supply voltage regulator
- 0.1" (2.54 mm) grid
- dimensions: 100x80 mm
- four mounting holes



### **Programming:**

To program PIC-P28B you need serial port or parallel port PIC programmers with ICSP connector (PIC-PG1, PIC-PG3B) or PIC-ICD1-B.

The serial port ICSP programmer (PIC-PG1) works with IC PROG ICPROG software, written by Bonny Gijzen. The latest release of ICPROG may be download for free from <http://www.icprog.com>

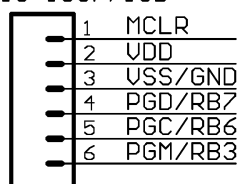
The parallel port ICSP programmer (PIC-PG3B) works with Bojan Dobaj's shareware software

from <http://www.picallw.com> or Nigel Goodwin's free software from [www.lpilsley.uklinux.net](http://www.lpilsley.uklinux.net)

### **ICD/ICSP connector layout:**

The ICD/ICSP connector is 6 pin with 0,1" step. The PIN.1 is marked with square pad on bottom and arrow on top. ICSP signals are: 1- MCLR, 2- VDD, 3- VSS/GND, 4- PGD/RB7, 5- PGC/RB6, 6- PGM/RB3.

PIC-ICSP/ICD



### **RS232 interface:**

J2 removable jumper selects where RTS/DTR line to be connected. In position 12 the line is connected to RTS, in position 23 is connected to DTR.

### **Status LED:**

Connected to RA0 via removable jumper J2. The jumper should be left open while programming.

### **Oscillator circuit:**

Crystal resonator connected to OSC1 and OSC2.

### **Supported devices:**

All 28 pin PIC microcontrollers.

### **Power supply:**

The power supply should be in range +7.5 +18VDC.

### **Ordering codes:**

PIC-P28B-4MHz	- assembled and tested
PIC-P28B-20MHz	- assembled and tested
PIC-P28B/PCB	- only PCB

