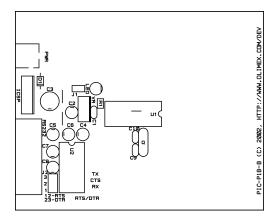# PIC-P18B PROTOTYPE BOARD
FOR 18 PIN PIC MICROCONTROLLERS

Features:
PIC-P18B is prototype board for 18 pin PIC microcontrollers with following features:
- RS232 Tx, Rx interface with MAX232 IC
- ICD/ICSP 6 pin connector
- Status LED connected to RB3 via removable jumper
- 4MHz, or 20MHz quartz oscillator
- extension slot on each microcontroller pin
- DIL18 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-P18B 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**

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

1	MCLR
2	VDD
3	VSS/GND
4	PGD/RB7
5	PGC/RB6
6	PGM/RB3

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 RB3 via removable jumper J2. The jumper should be left open while programming.

Oscillator circuit:
Crystal resonator connected to OSC1 and OSC2.

Supported devices:
All 18 pin PIC microcontrollers.

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

Ordering codes:
PIC-P18B-4MHz   - assembled and tested
PIC-P18B-20MHz   - assembled and tested
PIC-P18B/PCB   - only PCB

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