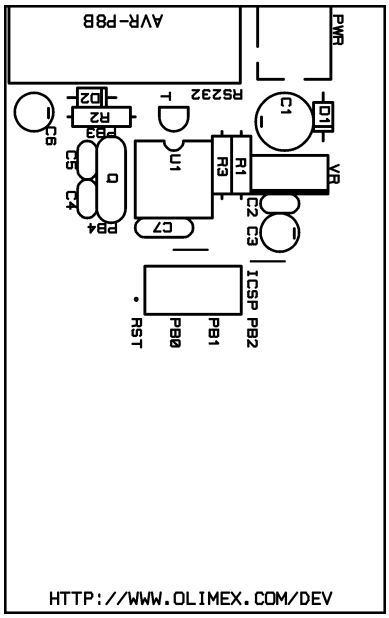
AVR-P8B PROTOTYPE BOARD WITH 10 PIN ICSP CONNECTOR FOR 8 PIN AVR MICROCONTROLLERS

Features:

AVR-P8B is prototype board for 8 pin AVR microcontrollers with following features:

- RS232 Tx and Rx interface
- ICSP 10 pin connector (STK compatible)
- 4MHz, 6MHz or 10MHz quartz oscillator circuit
- extension slot on each microcontroller pin
- DIL8 microcontroller socket
- power supply plug in connector
- +5V power supply voltage regulator
- 0.1” (2.54 mm) grid
- dimensions: 81x58 mm
- four mounting holes



Programming:

To program AVR-P8B you need serial port or parallel port AVR-ICSP programmer dongle (Olimex part # AVR-PG1B or AVR-PG2B).

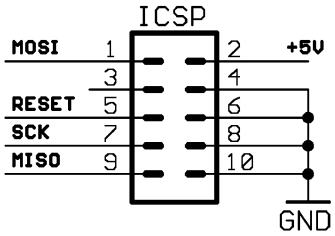
The serial port ICSP programmer (AVR-PG1B) works with PonyProg software by from Claudio Lanconelli and the latest release may be download for free from **http://www.lancos.com**

The parallel port ICSP programmer (AVR-PG2B) works with AVR ISP from Atmel and may be download for free from Atmel’s web site.

ICSP interface:

The ICSP connector is 2x5 pin with 0,1" step and Atmel STKxxx compatible layout. The PIN.1 is marked with square pad on bottom and arrow on top. ICSP signals are: 1- MOSI, 2- VCC, 3- NC, 4- GND, 5- RST, 6- GND, 7- SCK, 8- GND, 9- MISO, 10- GND

TOP view PCB board layout:



RS232 interface:

PB1 is connected to Tx,
RB0 is connected to Rx

Oscillator circuit:

When external oscillator is needed Q1 should be connected via the jumpers.

Supported devices:

All 8 pin Atmel AVR microcontrollers.

Power supply:

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

Ordering codes:

AVR-P8B-4Mhz	- assembled and tested
AVR-P8B-6MHz	- assembled and tested
AVR-P8B-10MHz	- assembled and tested
AVR-P8B/PCB	- only PCB

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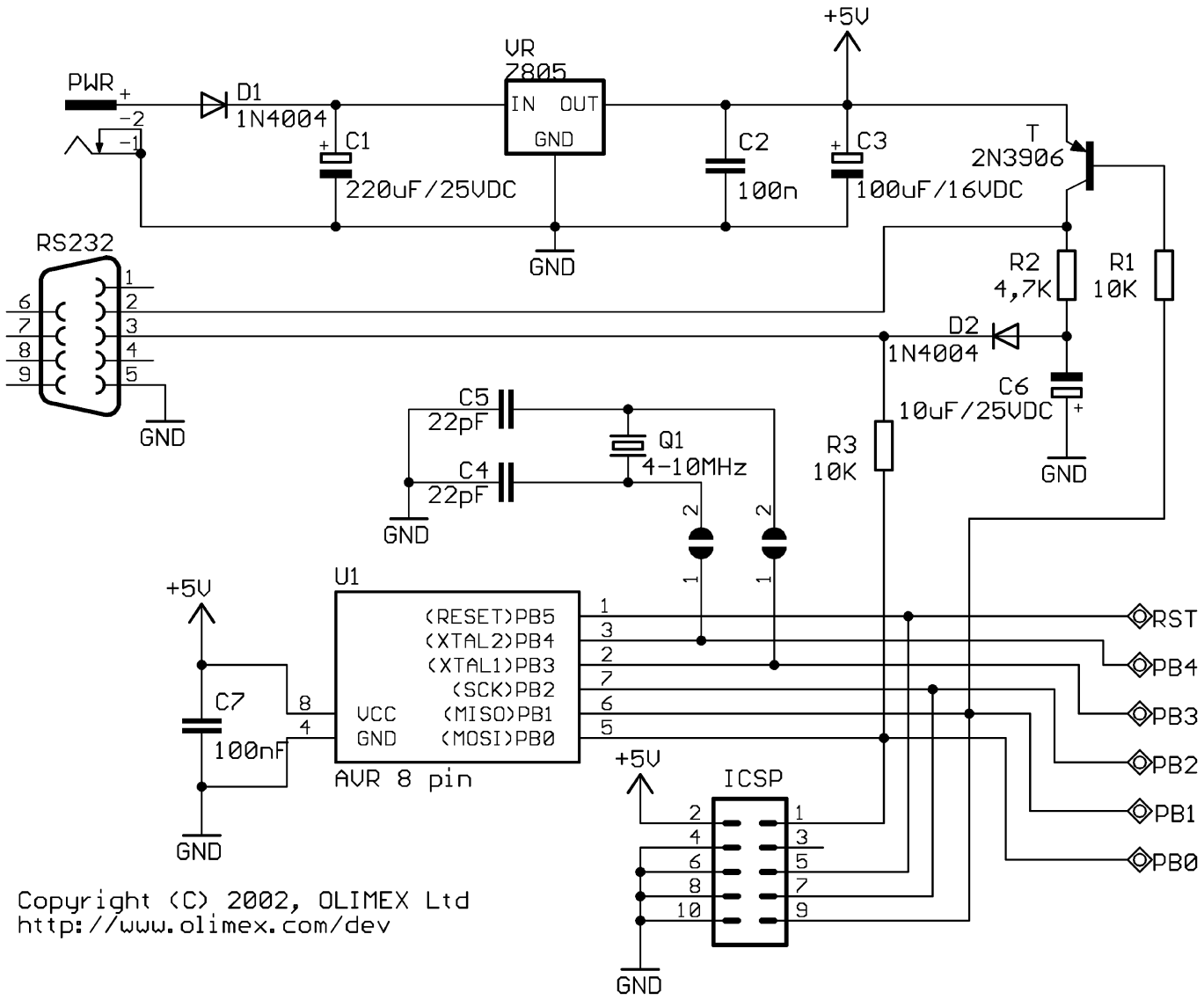
Development boards for PIC, AVR and MSP430 microcontrollers **http://www.olimex.com/dev**



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