

# Baseline and Mid-Range PIC (6 – 14 pin) Training and Development Board

## *Construction and Operation Guide*

This PIC development board is designed as a training environment specifically for use with the introductory Gooligum baseline, mid-range and enhanced mid-range PIC tutorials<sup>1</sup>.

The tutorials were originally written for Microchip's Low Pin Count Demo Board, which supports 8-, 14- and 20-pin PICs, can be used easily with a PICKit 2 or PICKit 3 programmer, and provides four LEDs, a pushbutton switch and a potentiometer. As such, it's a good, simple introductory board. However, it does not support the 6-pin 10F PICs and its LEDs cannot be used directly with 8-pin PICs.

More significantly, many of the Gooligum baseline and mid-range lessons require the use of parts not included on that board, such as photocells, crystal-driven oscillator circuits, and 7-segment LED displays. Although it is possible to build all of these circuits on a breadboard, connected to the Low Pin Count Demo Board, it is a little cumbersome – especially for some of the more complex circuits.

This training board was developed to make it easy to follow the Gooligum baseline, mid-range and introductory enhanced mid-range lessons. It works with a PICKit 2 or PICKit 3 programmer, and supports all 8- and 14-pin baseline, mid-range and enhanced mid-range PICs, as well as all 6-pin 10F devices (in an 8-pin DIP package). It is fully configurable using the provided jumpers, and comes with all of the hardware needed for every introductory lesson, including all the required PICs.

It features:

- Support for all 6-pin, 8-pin and 14-pin baseline, mid-range and enhanced mid-range PICs (all 10F, 12F and 14-pin 16F devices)
- 2 × pushbuttons (including 'MCLR')
  - optional external pull-up resistor on each pushbutton
- 9 × LEDs
  - an LED is available on each 6-pin and 8-pin PIC output pin, plus pins RC0 – RC3
- 3 × 7-segment LED displays
  - configurable as a single digit or multiplexed digits
- External 32.768 kHz oscillator
  - can be configured to drive processor clock, Timer0 or Timer1
- 4 MHz resonator, 32.768 kHz crystal and resistor/capacitor for use with processor oscillator
  - 32.768 kHz crystal also available for Timer1 oscillator
- Potentiometer and 2 × photocells for use as analog inputs in comparator and ADC lessons
- Variable frequency oscillator for frequency and pulse width measurement lessons
- Piezo sounder, to demonstrate PWM outputs
- Standard ICSP connector for use with PICKit 2 or PICKit 3 programmer

<sup>1</sup> All baseline, mid-range, and introductory enhanced mid-range assembler and C lessons.

# Gooligum Electronics Midrange

**Sebastian Brünink**



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