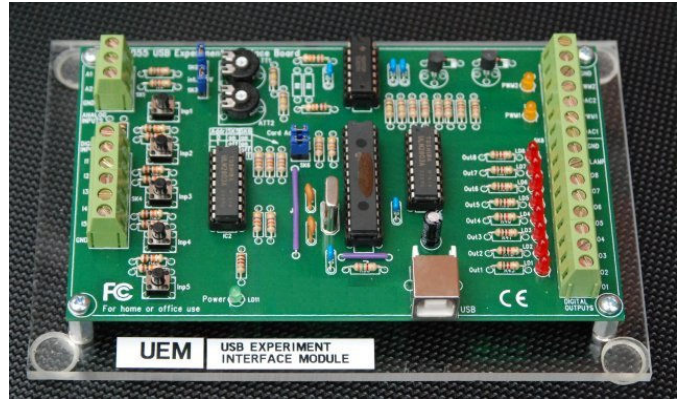


## Digital and Analog I/O on the USB Bus...

The UEB board is an analog and digital I/O port that can be used to control external circuits and systems through the USB bus. The board has 5 digital input channels and 8 digital output channels. In addition, there are two analogue inputs and two analogue outputs with 8 bit resolution. The number of inputs/outputs can be further expanded by connecting more (up to a maximum of four) cards to the PC's USB connectors.

All communication routines are contained in a Dynamic Link Library (DLL). You may write custom Windows (98SE, 2000, Me, XP) applications in Delphi, Visual Basic, C++ Builder or any other 32-bit Windows application development tool that supports calls to a DLL. Source code for Visual Basic, Delphi and Borland C++ Builder is included with product documentation CD.

## UEB Lab Module

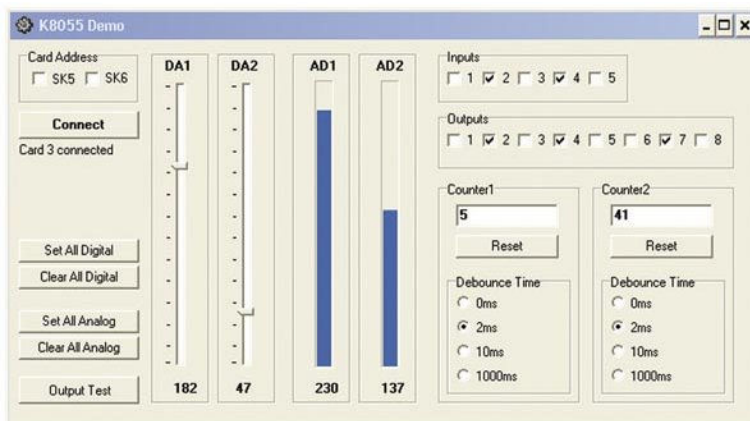


## Software Features

### DIAGNOSTIC / TEST SOFTWARE:

- Separate output / input test
- Clear all / set all function
- Counter function on inputs 1 and 2 with adjustable debounce (max 2KHz, depends on total I/O load)
- Analogue output set sliders
- Analogue input bar-graph indication

## Test Software Screen Shot



## Ordering Information

UEB Assembled and Tested Board ..... UEM-AB-010  
 UEB Lab Module ..... UEM-LM-010  
 UEB Full Kit ..... UEB-FK-010

## Drivers and Applications Included

- Graphical Demo with VB Source Code
- LabView Drivers
- VC Software Example
- Installable Demo Package
- Source code files for Borland C++ builder, VB6 and Delphi 6.x
- Source code for C/C++ Ch interpreter

## Specifications

- 5 digital inputs (0= ground, 1= open) (on-board test buttons provided)
- 2 analogue inputs with attenuation and amplification option (internal test +5V provided)
- 8 digital open collector output switches (max 50V/100mA) (on-board LED indication)
- 2 analogue outputs:
  - 0 to 5V, output resistance 1K5
  - PWM 0 to 100% open collector outputs max 100mA / 40V (on-board LED indication)
- general conversion time: 20ms per command
- power supply: through USB approx. 70mA
- diagnostic software with DLL included
- dimensions: 5.7" x 3." x 0.8" (145 x 88 x 20mm)