

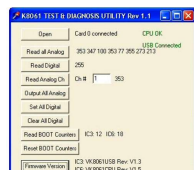
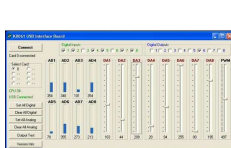
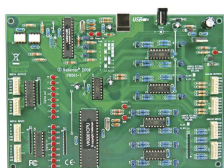
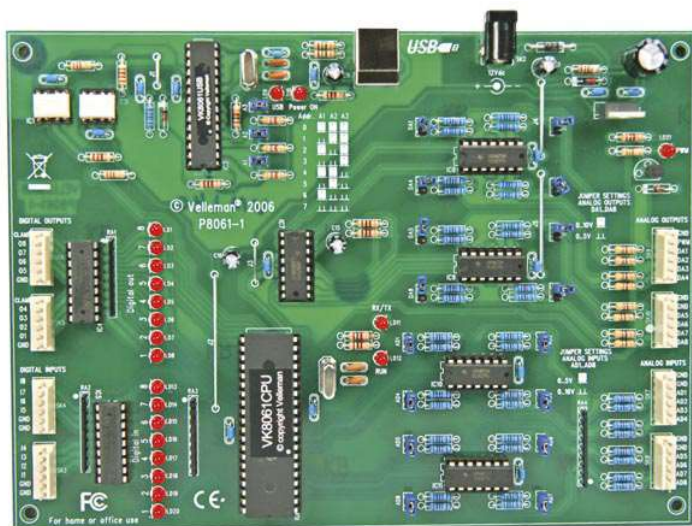


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## EXTENDED USB INTERFACE BOARD

**VM140**

**velleman®**  
modules



This computer interface board has a total of 33 inputs / outputs, including analogue / digital and a PWM output. The connection to the computer via the USB port is galvanically-optically isolated, so that damage to the computer is impossible thus providing a high level of secure implementation.

All communication routines are contained in a Dynamic Link Library (DLL).

You may write custom Windows\* Applications in Borland Delphi, Borland C++ Builder, Microsoft Visual Basic, Microsoft VC or most other 32-bit Windows application development tool that supports calls to a DLL.

\*Windows XP is a registered trademark of Microsoft Corporation.

### Features

- 8 analogue 10 bit resolution inputs: 0...5 or 10VDC / 20k ohms
- 8 analogue 8 bit resolution outputs: 0...5V or 10VDC / 47 ohms
- 8 digital inputs: open collector compatible (connection to GND=0) with on-board LED indication
- 8 digital open collector outputs (max. 50V/100mA) with on-board LED indication
- one 10 bit PWM output: 0 to 100% open collector output (max 100mA / 40V) with on-board LED indication
- USB port: USB 1.1 & 2.0 compatible

### Specifications

- power consumption through USB port: approx. 60mA
- up to 8 cards can be connected to PC
- power supply through adapter: 12VDC / 300mA (PS1205)
- PWM frequency: 15.6kHz
- command execution time: between 21 and 48ms
- PCB dimensions: 195 x 142 x 20mm / 7.68 x 5.59 x 0.79"
- minimum system requirements:
  - Pentium class CPU or higher with free USB port (1.1 or higher)
  - Microsoft Windows 2000 or Windows XP
  - mouse

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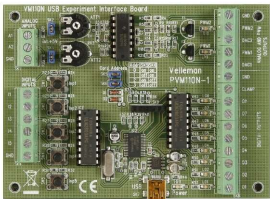
K8061

EXTENDED USB INTERFACE  
BOARD



K8055N

USB EXPERIMENT INTERFACE  
BOARD



VM110N

USB INTERFACE CARD