

Application Note 240: Measurement Computing card setup

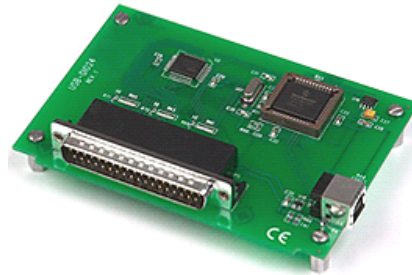
This application note details the required setup for sending digital signals to *AcqKnowledge* from Vizard using a 37-pin Measurement Computing card and the STP100C.

Supported cards

There are two cards currently supported:

USB-DIO24/37 (USB version)

PCI-DIO24 (PCI slot)



Hardware components and setup

- Vizard workstation
- *AcqKnowledge* workstation
- MP150 system that includes the STP100C module and a 37-pin parallel cable (CBL110A)

Connect the parallel cable to the Measurement Computing card 37 pin port and to the STP100C 37 pin connector

Installation instructions

1. Install Instacal and the Universal Library from the Measurement Computing CD.
2. Install the measurement computing card or connect the USB card, if using the USB version.
3. Run Instacal and the program should automatically find the card.

For steps 4-6, make sure to select the Vizard path for the installation if you have more than one Python installation on your computer.

4. Install ctypes-1.0.2.win32-py2.4.exe
5. Install numpy-1.0.4.win32-py2.4.exe
6. Install PyUniversalLibrary-20061020.win32.exe

Note: Version numbers are current as of the application note creation date and these source files go along with this note. Newer version may be obtained here:
<https://code.astraw.com/projects/PyUniversalLibrary/>

Software setup and sample program

Included files:

- ctypes-1.0.2.win32-py2.4.exe
- numpy-1.0.4.win32-py2.4.exe
- PyUniversalLibrary-20061020.win32.exe
- Measurement Computing example.py
- SEND_DOWN.gif
- SEND_UP.gif
- digital lines.acq

Run the file Measurement Computing example.py and follow the instructions. A screenshot from the sample program is shown at right.

