



Government of Pakistan

(Ministry of Science & Technology)

Institute of Industrial Electronics Engineering

Pakistan Council of Scientific & Industrial Research (PCSIR)



IIEE USB DAQ CARD v2 & VIRTUAL LAB

Patent # 140763, Patent Title: USB Data Acquisition Card, Published in Gazette of Pakistan: 17-11-2010

The aim of designing and developing the IIEE USB data acquisition system was to provide a user friendly platform for engineering students and teacher to design and perform lab experiments related to instrumentation and control application. The accompanied software module provides facility for data-acquisition, processing and data logging. The USB Data Acquisition Card (USB DAQ) is connected to a *personal computer* (PC) through a normal USB cable. The circuit is built on a *compact printed circuit board* (PCB) and it requires no external power supply.

IIEE USB DAQ CARD SPECIFICATIONS

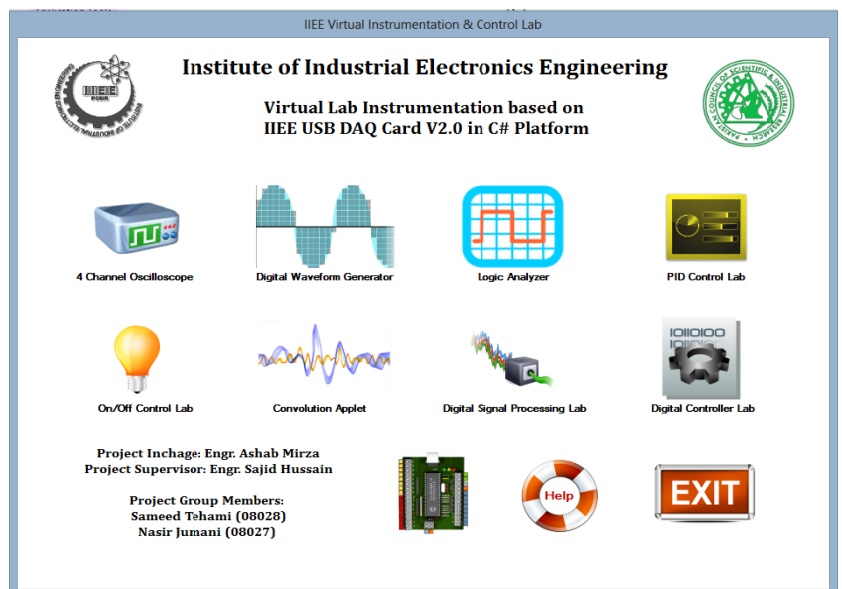
- 8 analog inputs (12-bit, 10 kS/s)
- 2 analog outputs (12-bit, 5 kS/s);
- 8 digital Inputs; 8 digital outputs;
- Bus-powered for high mobility; built-in signal connectivity.
- USB HID Plug n Play interface, All windows platforms compatible.
- Compatible with LabVIEW, Microsoft Visual studio and NI Measurement Studio for Visual Studio .NET



IIEE Virtual Laboratory (Associated Software)

Following software-modules are available for different applications.

- Quad Channel Storage Oscilloscope
- Digital Waveform Generator
- Digital Logic Analyzer
- PID Control Lab
- On/Off Control Lab
- Convolution Applet
- Digital Signal Processing Lab
- Digital Controller Lab



Please contact **Principal IIEE** (addresses given below) for placing order on special price for engineering educational institutions.