OVERVIEW

Product Name: MCC USB-231 and MCC USB-234 Multifunction USB DAQ Devices

Product Subtitle: 16-bit multifunction DAQ devices for general purpose data acquisition applications

Product Description: The Measurement Computing USB-231 and USB-234 are USB-based, 16-bit, multifunction DAQ devices. They feature 8 SE/4 DIFF analog inputs, with a fixed analog input range of ±10 V, 16-bit resolution, two 16-bit analog outputs, eight digital I/O, and one 32-bit counter. The USB-231 features a 50 kS/s sample rate. The USB-234 features a 100 kS/s sample rate. These devices are USB-powered and require no external power.

Each device provides two 16-bit analog outputs. One or both outputs can be updated at a rate up to 5 kS/s per channel. The output range is fixed at ±10 V.

Eight TTL-level digital I/O lines are included with USB-230 Series devices. Each channel is software-selectable for input or output. Digital input voltage ranges from 0 V to 5 V are supported, with thresholds of 0.8 V (low) and 2.3 V (high). When used in output mode, each digital channel allows for 3.3 V operation with a source/sink current limit of ±4 mA. All DIO lines are set to high-impedance inputs at system startup and reset. The device does not drive the signal high or low. Each line has a weak pull-down resistor connected to it. All digital I/O updates and samples are software-paced.

USB-230 Series devices include an external digital trigger input that is software selectable for rising edge or falling edge detection.

USB-230 Series devices support one 32-bit edge counter (rising) that accepts inputs up to 5 MHz.

Software support includes DAQami, an optional out-of-the-box application for data logging, visualization, and signal generation. Data can be viewed in real-time or post-acquisition on user-configurable displays. Drivers are included for the most popular applications and programming languages including Visual C++®, Visual C#®, Visual Basic®.NET, DASYLab®, LabVIEW™, MATLAB®, and Python™.

Key Search Terms: Measurement Computing, DAQ, data acquisition, USB DAQ, multifunction DAQ, TTL level, source current, sink current, digital trigger, C++, C#, Visual Basic.Net, DASYLab, LabVIEW, MATLAB, Python	**Video Link:** N/A

Datasheet: https://www.mccdaq.com/GetPDF.aspx?t=/PDFs/specs/USB-230-Series-data.pdf

Demo / Project Links:
- MCC Software Overview
- MCC Software Downloads
- MCC example programs
- USB-231 Manual
- USB-234 Manual

Features	Product Image
8 SE/4 DIFF analog inputs 16-bit resolution - USB-231: 50 kS/s sample rate - USB-234: 100 kS/s sample rate ±10 V input range - Two 16-bit analog outputs - Eight digital I/O - One counter input - No external power required. USB cable is included	
	Image Links: - https://drive.google.com/file/d/1yWAn3YUQIMFn6qGLVWC-EPGOGyhs1RML/view?usp=sharing - https://drive.google.com/file/d/1XHSHwf2CArTR8JT91MCqLfPjfR8iMDGJ/view?usp=sharing - https://drive.google.com/file/d/1fV_2uwtiq6gjaH4pF1cSlt-Qr6OQM6or/view?usp=sharing
3 Target Applications NA	**Related Products** - MCC USB-1608GX (PN: *6069-410-010)* - MCC USB-1608GX-2AO (PN: 6069-410-011)