


NEW PRODUCT	 A National Instruments Company	Release Year 2021	Released Quarter Q4
Digilent Part Number 6069-410-008 (MCC USB-202) / 6069-410-009 (MCC USB-205)		Category DAQ and Data Logging	

OVERVIEW

Product Name: MCC USB-202 and MCC USB-205 Single Gain Multifunction USB DAQ Devices

Product Subtitle: 12-bit multifunction DAQ devices designed for general purpose data acquisition applications

Product Description: The Measurement Computing USB-202 and USB-205 are low-cost, USB-based multifunction DAQ devices designed for general purpose data acquisition applications. Each device features eight, 12-bit SE analog voltage inputs, two analog outputs, eight digital I/O, and one counter input. The USB-202 features a maximum 100 kS/s sample rate, while the USB-205 offers a 500 kS/s sample rate. The analog input range is fixed at ± 10 V. These devices are USB-powered and require no external power.

The USB-202 and USB-205 feature two 12-bit analog output channels. Both outputs can be updated simultaneously at a rate up to 125 S/s per channel. One output can be updated at a rate up to 250 S/s. The output range is fixed at 0 V to 5 V. Each USB-200 Series device provides one external clock input and one clock output for the analog input pacer. Users can connect an external clock signal to the external clock input terminal. When using the internal clock, each device outputs the ADC sample clock.

These devices also provide eight TTL-level digital I/O lines. Each digital channel is software-selectable for input or output. When configured for output, each digital channel can source/ sink up to ± 24 mA. Each USB-200 Series device supports one 32-bit TTL-level event counter that accepts inputs up to 1 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[®], Linux[®], and Python[™].

Key Search Terms: Measurement Computing, DAQ, data acquisition, USB DAQ, multifunction analog, digital, C++, C#, Visual Basic, LabVIEW, MATLAB, Python, Linux, TTL,

Video Link: N/A

Datasheet: <https://www.mccdaq.com/PDFs/specs/USB-200-Series-data.pdf>

Demo / Project Links:

- [MCC Software Overview](#)
- [MCC Software Downloads](#)
- [MCC example programs](#)
- [USB-202 Manual](#)
- [USB-205 Manual](#)

Features

- Eight SE analog inputs
- 12-bit resolution
- **USB-202: 100 kS/s sample rate**
- **USB-205: 500 kS/s sample rate**
- ± 10 V input range
- Two analog outputs

Product Image



<ul style="list-style-type: none"> • Eight digital I/O • One 32-bit event counter input • External pacer I/O • No external power required. USB cable is included 	<p>Image Links:</p> <ul style="list-style-type: none"> • https://drive.google.com/file/d/1vkGwvkQWm0EUq-FTyy5KAu3l8FQB1pWe/view?usp=sharing • https://drive.google.com/file/d/1w3ug1pu7PbHHQhFbA62v3lg5Bgh_Mz4w/view?usp=sharing • https://drive.google.com/file/d/129PVGvziV0zANTvjXKLdr23FrgSkbbGj/view?usp=sharing
<p>3 Target Applications</p> <ul style="list-style-type: none"> • NA 	<p>Related Products</p> <ul style="list-style-type: none"> • MCC USB-231 (PN: 6069-410-012) • MCC USB-234 (PN: 6069-410-013)