



Processor: STM32L431KCU6

Part Number: 20-0701-DAQ-10CH



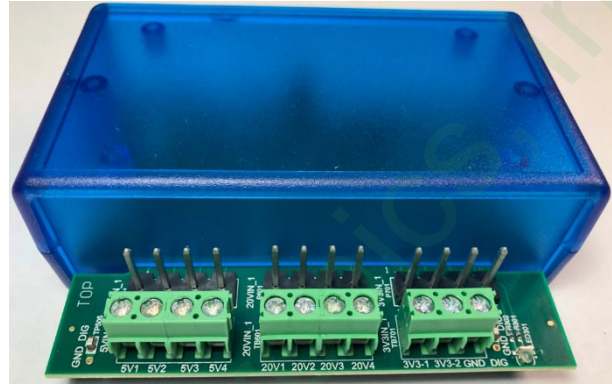
General Description

The 0701-DAQ is a 10 Channel Analog Acquisition / Measurement system, powered from USB. The processor is a STMicroelectronics ARM 32-bit Cortex M4.

Channels are grouped for +3V3, +5V0 and +20V Input Ranges.

The 12-bit Successive Approximation A/D Converter uses hardware oversampling to increase the resolution to 16-bit performance. This also improves anti-aliasing performance, and reduces noise.

The DAQ uses a Virtual Com Port (VCP) through the onboard USB connector to continuously stream all voltages to the to a PC USB port, once per second. This requires the Windows CP210x VCP driver from Silicon Laboratories, Inc.



NOTE: (Cable included)

USB cable provides Power as well as the communication.

DAQ Function Highlights

Analog Inputs (x10)	X10 Single-Ended inputs x4 for +20V x4 for +5V0 x2 for +3V3
USB Output	All ten voltages are sent via VCP UART, once per second
Baudrate	115200 baud
Silicon Laboratories, Inc. VCP Driver	CP210x VCP Windows

Connectors Functionality

PCB terminal blocks Phoenix	5 mm pitch Screw connection with wire protector
PCB Headers Samtec Mates with:	HPM-04-01-T-S HPF-04-01-T-S .200" Power Socket Strip
USB2.0 Micro B (INCLUDED)	Use with USB cable: Type A 2.0 to Micro B 2.0