DAQ24USB
24-bit USB Analog-Digital Converter

DAQ24USB is an advanced USB 24-bit data acquisition system (DAS) offering excellent performance at a low cost. DAQ24USB comes with a finished GUI application (shown below), Java and C libraries, programmable sensitivity, digital I/O, auxiliary 10-bit analog inputs and a temperature monitor. DAQ24USB is ideal for DAS applications or development under either the Ubuntu Linux or Windows.
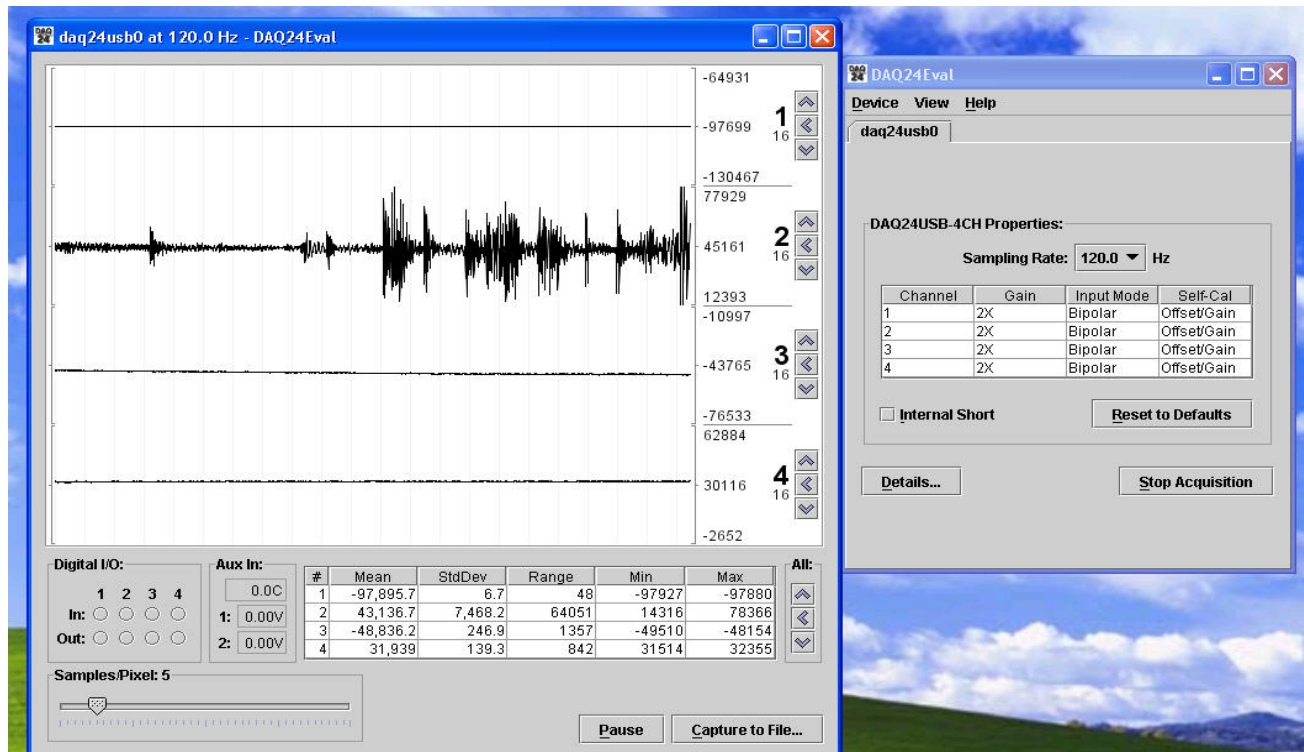
DAQ24USB Highlights

- **USB plug-and-play interface**

- **Differential inputs**

- **Programmable sensitivity**

- **Up to 120 dB of dynamic range with no missing codes**

- **USB expandability**

- **Digital input/output**

- **Windows and Linux (3.X kernel) data logger, drivers and libraries**

- **PC/104 form-factor for embedded applications**

- **Java data logging application**

- **Auxiliary 10-bit analog inputs plus temperature**

DAQ24USB Specifications

DAQ24USB is a 24-bit USB analog-to-digital converter/data logger that records locally to a PC with a USB port. The software runs under Windows or Linux and can be upgraded to support TCP/IP networking, SSH, SFTP, real-time graphical waveform viewing, event triggering and multiple data formats. OEM (board-level) developers use libraries to build their own applications. DAQ24USB is also available packaged inside an industrial metal enclosure, with cabling and terminal board for I/O connections. Both packaged turn-key and OEM configurations include the same software on CDROM.

Channel count	4 – 16 channels, 24-bit, independent banks via USB hub
Dynamic range	120 dB (100 Hz sampling rate)
Channel timing skew	None (one ADC per channel)
Voltage range	+/- 20 volts full-scale
Input impedance[1]	218k-ohms
Sensitivity (counts/volt)	419430
Auxiliary analog channels, 10 bit	4
Digital input/output channels	3 input, 3 output
Software-controlled amplifier	X2 – X16
Sampling range[1]	10 – 960 samples/sec
LED indicator	Flashes when data is acquired and connected to GPS
Enclosure	Optional PC/104 industrial enclosure
Operating temperature	-30° to +60° C
Power	+ 5 VDC @ 130mA (USB bus power)
Bundled software	DAQ-Sys-Lab data logger (Java)
Library support	Java and "C"
Output file format	ASCII (Excel, MATLAB compatible)

[1] DAQ24USB, Rev F and later

Sales and Contact Information

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