Our Products

uCDAQ Flexible Sensor Platforms:
ucDAQ is a flexible and customizable sensor platform. Works well for both networked sensor and data logger applications. Best for data rates below 2 Mps.

- Free C/C++ development enviroment.
- Programmable over USB.
- Example applications for data logging and networked sensor node.
- Sensor module port for custom analog sensor interface board. Customization design service available for hardware and software.

uCDAQ 1000
- 32 MHzProcessor 8/16 bit 16K RAM
- 2x 4ch. 2Mmps 12 bit ADC and 8 ch. 24 bit ADC
- GPS and SIO module interfaces
- microSD card port
- 52 pin 2x26 0.1” sensor interface
- USB 2.0 FS device - 12 Mbps
- 5.5 to 16V DC input up to 1A
-75 mm x 120 mm form factor

uCDAQ 3000
- 66 MHZ 32 bit MCU w/32 MB SDRAM
- 32 ch. 24 bit ADC up to 125Ksps
- 10/100 Ethernet
- USB 2.0 FS host/device port
- GPS and SIO module interfaces
- microSD card port
- 80 pin 2x40 pin 0.1 sensor interface
- 5.5 to 16V DC input up to 1A
- 100 mm x 160 mm form factor

GPS m200 Module:
Add GPS tracking and precision timing to your uCDAQ sensor platform.
- 12 ch. satellite tracking
- 60 ns RMS PPS output for timing reference
- SMA ant. connector with 3.3V DC supply

WiFly Wireless Ethernet Module:
Add a wireless Ethernet to your uCDAQ system enable remote access.
- Access point mode or client mode.
- Built-in routines to send data to web servers.

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About MSI LLC:

MSI was founded in 2009 by John Battles with the purpose of applying modern technologies to increase the capabilities, lower the costs, and reduce the challenges of designing and operating sensor systems. We understand how costly, time consuming, and frustrating it can be to design and operate sophisticated sensor networks. Our products enable our customers to get to their sensor data as efficiently as possible.

Our lead engineer, John Battles has over 25 years of experience with electronic technology and software. With a background in both science and engineering he can bridge the gap between the needs of science and engineering.

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**Q: What is a Flexible Sensor Platform (FSP)?**

The uCDAQ FSP is a user customizable modular system designed to combine with application specific electronic sensors to form a complete data acquisition (DAQ) system. It provides a range of features for capturing, processing, communicating, and storing sensor data. The system can be customized by the application developer or we can customize the hardware and software to your specification.

**Why buy a uCDAQ FSP?**

- **More flexibility** than a traditional fixed function DAQ system.
- **Lower cost** than developing or contracting a full custom system.
- **Less time** to develop than a full custom system.

**Q: What are the key features provided by uCDAQ sensor platforms?**

- Small form factor and low power consumption (<10W) enable a wide range of deployment options.
- Multiple data converters to fit a wide range of sensor sampling requirements.
- Sensor module interface for customization of the sensor hardware interface.
- GPS module interface for precision location and timing of sensor data.
- Serial I/O (SIO) module interface to allow a diverse range of different communication interfaces.
- USB interface for system programming and communication.

**Q: What are some applications for uCDAQ Sensor Platforms?**

- Environmental sensor networks
- Robot/Drone sensors
- Advanced weather stations
- Mobile sensor systems
- Energy monitoring systems
- Industrial process monitoring
- Traffic monitoring
- Security and safety monitoring
- Scientific research
- Seismic survey networks
- Laboratory experiment monitoring

**Which uCDAQ system do you need?**

**uCDAQ 1000:**

- Smaller, low power applications with limited data processing requirements.
- Remote data logging or wireless sensors with moderate data rates.

**uCDAQ 3000:**

- With its additional memory, faster CPU speed and additional USB storage this system can process and store more data.
- Applications which need 10/100 wired Ethernet or built-in webservice capability.
- Up to 32 channels of precision (24 bit) sampling with data rates up to 125Ksp.