OEM DAQ Devices

LabJack produces low cost, high quality, data acquisition and control products in OEM form factors starting at $90. Below is a list of OEM devices LabJack produces. These devices have the same features as the enclosed devices but are manufactured with a minimalist in mind. They are great for solutions where the device will be permanently installed or for easy customization. For all OEM products, if we removed features that are necessary for your project please Contact Us about getting a customized OEM that fits your project requirements. We can install a variety of parts onto the purchased DAQ before shipping the device.

To view our USB DAQ product offerings please see our USB DAQ (data acquisition) products. To view our Ethernet DAQ product offerings please see our Ethernet DAQ (data acquisition) products. To view our WiFi DAQ product offerings please see our WiFi DAQ (data acquisition) products.

Please note that the term "DAQ (data acquisition)" implies products that connect to a PC to acquire data. If you need an instrument that can operate independently from a computer we have Data Logging compatible DAQ devices that are capable of periodically recording to internal memory for later use.

Related LabJack Devices
**Most Affordable DAQ**

**U3: LV/HV-OEM**
- Lowest cost DAQ device supporting USB
- 16 Flexible I/O (Digital Input, Digital Output, or Analog Input)
- Up to 2 Timers (Pulse Timing, PWM Output, Quadrature Input, ...)
- Up to 2 Counters
- 4 Additional Digital I/O
- Up to 16 12-bit Analog Inputs (0-2.4 V or 0-3.6 V, SE or Diff.)
- 2 Analog Outputs (10-Bit, 0-5 volts)
- Supports SPI, I2C, and Asynchronous Serial Protocols (Master Only)

LV-OEM: $90
HV-OEM: $95

**Low Cost Multifunction DAQ**

**U12-NTH/U12-PH**
- 8 Single-Ended, 4 Differential 12-Bit Analog Inputs
- ±10 Volt Analog Input Range
- PGA with Gains of 1, 2, 4, 5, 8, 10, 16, or 20 V/V
- Up to 8 kSamples/Sec (Burst) or 1.2 kSamples/Second (Stream)
- 2 Analog Outputs
- 20 Digital I/O (Up to 50 Hz per I/O)
- USB 2.0/1.1 Low Speed HID Interface
- Connect Up to 80 LabJacks to One USB Host
- Complete Software Control, No Jumpers or Switches

U12-NTH: $130
U12-PH: $140
Performance

U6/U6-Pro OEM

- 14 Analog Inputs (16-18+ Bits Depending on Speed)
- U6-Pro Adds 24-bit Low-Speed ADC for 22-Bit Effective Resolution
- Instrumentation Amplifier Inputs
- Software Programmable Gains of x1, x10, x100, and x1000
- Analog Input Ranges of ±10, ±1, ±0.1, and ±0.01 Volts
- 2 Analog Outputs (12-Bit, ~0-5 Volts)
- 20 Digital I/O
- Up to 2 Counters, 4 Timers (Pulse Timing, PWM Output, Quadrature Input, ...)
- Supports SPI, I2C, and Asynchronous Serial Protocols (Master Only)

U6-OEM: $310
U6-Pro-OEM: $360

Low Cost OEM
Friendly Ethernet DAQ

T4-OEM

- OEM variant of the T4.
- No case, no screw terminals, easily customizable and embeddable.
- Lowest cost Modbus TCP Ethernet DAQ device. Also supports USB communication.
- 4 dedicated high voltage analog inputs (±10V, 12-bit resolution)
- 8 configurable low voltage analog inputs (0-2.5V, 12-bit resolution) that can function as digital I/O lines
- 8 dedicated digital I/O lines (EIO4-EIO7 and CIO0-CIO3)

T4-OEM: $189
- Multiple timers and counters (Pulse Timing, PWM Output, Quadrature Input, ...)
- Digital I/O lines support SPI, I2C, 1-Wire, and UART (Master modes only)
- 2 Analog Outputs (10-bit, 0-5 volts)

### High Performance, USB, Ethernet, Wifi

![Image of LabJack device]

#### T7/T7-Pro OEM

- Newest DAQ device supporting USB, Ethernet, and 802.11b/g WiFi
- Fully compatible with Modbus TCP/UDP and most SCADA programs
- 14 analog inputs built-in
- Expand to 84 analog inputs with Mux80 add-on
- Analog input ranges: ±10V, ±1V, ±0.1V and ±0.01V
- 16-bit high-speed ADC (up to 100k samples/s)
- 24-bit low-speed ADC (resolution as low as 1uV noise-free)
- 23 digital I/O
- Up to 10 counters
- 2 analog outputs (12-bit, 0-5V)
- Serial protocols: SPI, I2C, and more ...
- Up to 8 PWM, quadrature, pulse width, and more ...

#### T7-OEM: $400
T7-Pro-OEM: $550

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### Why LabJack?

- All Software Is Free!

### Windows, Mac OS X, Linux

#### Examples In:
- LabVIEW
- C/C++
- Python
- MATLAB
- Java

#### LabJack Software Options

The **LJM Library** is a set of functions used to easily communicate with several of our devices using a simple Modbus over USB interface (as well as Modbus TCP/UDP when applicable). The goal is to be easy to use and understand, yet flexible.
All important values and data from the device can be read and/or written by using the associated register(s).

LabJack’s DAQ devices have a wide range of features

- Analog Inputs
- Digital I/O
- Analog Outputs
- PWM, Quadrature ...
- SPI, I2C, Async Serial ...

*Check Individual Devices for support

We don't force you into a certain operating system, software, or programming environment. We provide free support for C/C++, C#, Delphi, Java, LabVIEW, MATLAB, Python, VBA, VB.NET, DAQFactory and more. If you use something we don't already support, we will work with you to add support. Add new kinds of sensors on-the-fly. We provide inexpensive signal conditioning modules. Control valves, motors, lights, pumps, etc - using one of many digital I/O control options. Embed LabJack DAQ hardware in your product using our OEM options. Leveraging smart designs and the latest semiconductors, allows us to provide more performance for less money. Have confidence in your measurements. Each device is individually tested and calibrated traceable to NIST standards. New features are readily available through field-programmable firmware. Each device has multiple protection mechanisms on every I/O to help prevent damage. Free lifetime support. Timely Email responses that actually answer your question. Get answers from the engineers who made the product.