LabJack T7-PRO

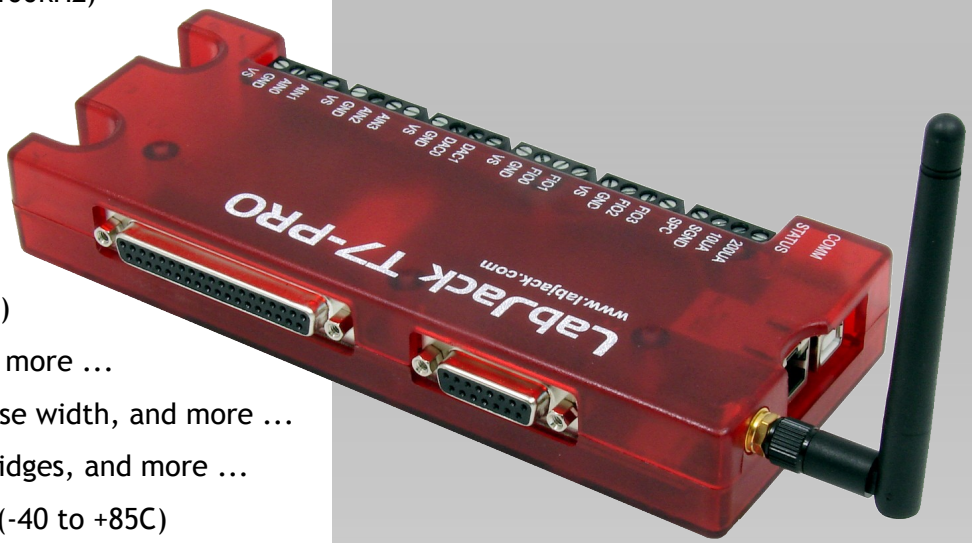
Multifunction DAQ - WiFi, Ethernet, and USB

The T7-Pro combines our highest performance 24-bit analog inputs, convenient WiFi, and industrial-strength Ethernet.

labjack.com/t7

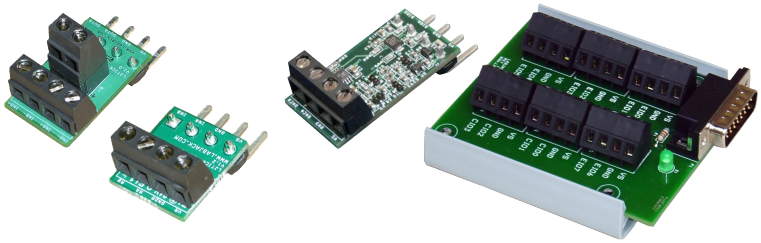
I/O Features

- Analog input resolution as low as **1µV noise-free**
- Analog input ranges: ±10V, ±1V, ±0.1V and ±0.01V
- Expand to **84 analog inputs** with Mux80 add-on
- 16-bit high-speed ADC (up to 100kHz)
- **24-bit** low-speed ADC
- 14 analog inputs built-in
- 23 digital I/O
- Watchdog system
- 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 ...
- Thermocouples, load cells, bridges, and more ...
- Industrial temperature range (-40 to +85C)



Other Highlights

- Each purchase includes **lifetime support**
- **Free applications** to configure, test, and log data to file
- Free examples: **C/C++**, **C#**, **Delphi**, **Java**, **LabVIEW**, **Matlab**, **Python**, **VB.NET** and more...
- Modbus TCP – Use any platform that supports TCP/IP, no driver required
- Free **cross-platform** LJM Library – Extends/wraps the Modbus protocol for convenience
- Expansion boards – Add ±10V DACs, 4-20 mA inputs, terminal boards, relay boards and more...



"I really do love your products … They are first class for coach price, and your customer service is what every company should aspire to have."

-Brad
Neuro-Test Inc

Software

Every feature of the T7 can be accessed directly using the associated **Modbus TCP** address, or use the **LJM Library** to access all features by name. This provides a powerful yet simple interface for almost any language or program.

Free Applications

- Up to 200Hz using simple LJLogM
- Up to 100kHz using simple LJStreamM
- Custom flexibility with DAQFactory Express

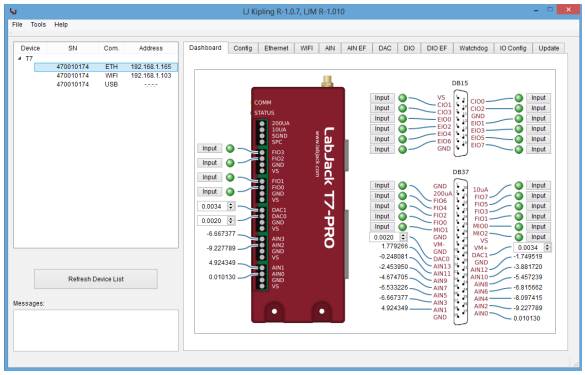
LJM library - Python Example

```
from labjack import ljm
handle = ljm.openS("T7", "WIFI", "ANY")

#Read the voltage on AIN0
value = ljm.eReadName(handle, "AIN0")

#Set DAC0 to 3.3V
ljm.eWriteName(handle, "DAC0", 3.3)
```

Test & Configure with Kipling



"Your product saved me a bunch of money and time... I usually contact support organizations... about how bad their products are. I felt like I had to say how well yours worked!."

-Thomas
Software Engineer

Why LabJack?

Flexibility

- 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.

Quality Hardware

- 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.

Legendary Support

- Free lifetime support.
- Timely Email responses that actually answer your question.
- Get answers from the engineers who made the product.

"You guys are the best and your customer support should be the world-wide standard."

-Mike
Indiana University

LabJack

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