Data acquisition and control hardware
Connecting the physical world to your computer

Multifunctional DAQ Hardware
Industrial Applications
Scientific Applications
OEM Integration
Educational Use

LabJack Corporation
3232 S Vance St, STE 200, Lakewood CO, 80227
Phone: (303) 942-0228
Fax: (303) 951-2916
E-mail: info@LabJack.com
Web: LabJack.com
» High Performance USB & Ethernet connectivity
» Fully compatible with Modbus TCP
» 14 analog inputs
» 16 bit resolution high speed ADC
» ±10V, ±1V, ±0.1V, and ±0.01V ranges
» 100 k samples/s max stream rate using Stream Mode
» Expand to 84 channels with Mux80
» AIN-EF: Hardware scaling & processing
» 2 analog outputs (expandable up to 20 using LabJack LJTick-DAC)
» 23 digital I/O
» Up to 12 timer and counter features
» Run Lua scripts in hardware

Why LabJack | Legendary Support

» Email responses that actually answer your question.
» Free lifetime support includes (some) engineering design help.
» The engineers who made the product also respond to your questions.
» Should your LabJack misbehave, we offer free RMA diagnostics & repairs.

» LabJack T7-Pro includes all the features of the normal T7 with the major addition of WiFi connectivity and an auxiliary low-speed high-resolution (24-bit) sigma-delta ADC.
» Also available in OEM form factor

LabJack
Measurement & Automation

3232 S Vance St, STE 200
Lakewood CO, 80227
Phone: (303) 942-0228
E-mail: info@labjack.com
Web: LABJACK.COM

LabJack T7-PRO

5 YEAR WARRANTY
LabJack T4

5 YEAR WARRANTY

- Low cost USB and Ethernet
- USB and Ethernet connectivity
- Fully compatible with Modbus TCP
- Up to 12 analog inputs
- 12-bit resolution
- 4 dedicated ±10V analog inputs
- Up to 8 0-2.5V analog inputs
- 50 ksamples/s max speed
- AIN-EE: Hardware scaling & processing
- 2 analog outputs (expandable up to 20 using LabJack LJTick-DAC)
- Up to 16 digital I/O
- Up to 10 timer and counter features
- Run Lua scripts in hardware

Why LabJack | Flexibility

- Software integrates easily. We don’t force you into a certain software, programming environment or operating system.
  • LabVIEW, C++, MATLAB, Python, Java, .NET, Delphi, Visual Basic, VB6, VBA, and more
  • Linux, macOS, Windows
- 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.
- Incorporate LabJack DAQ hardware using our OEM options.

U3-LV (Low-Voltage) Version
- Our most affordable DAQ
- Up to 16 analog inputs
- 12-bit resolution
- 0-2.4V range
- 50 ksample/s max stream rate
- 2 analog outputs
- Up to 20 digital I/O
- 2 timers and 2 counters

U3-HV (High-Voltage) Version
- Up to 16 Analog Inputs
- 12-bit resolution
- ±10V range
- 50 ksample/s max stream rate
- 2 analog outputs
- Up to 20 digital I/O
- 2 timers and 2 counters

LabJack Measurement & Automation

3232 S VANCE St, STE 200
LAKEWOOD CO, 80227
PHONE: (303) 942-0228
E-MAIL: info@labjack.com
WEB: labjack.com

5 YEAR WARRANTY
### Product Comparison

<table>
<thead>
<tr>
<th></th>
<th>T7</th>
<th>T7-Pro</th>
<th>T4</th>
<th>U3-LV</th>
<th>U3-HV</th>
<th>U6</th>
<th>U6-Pro</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AIN Voltage</strong></td>
<td>±10V</td>
<td>±10V</td>
<td>±10V</td>
<td>0-2.4V</td>
<td>±10V</td>
<td>±10V</td>
<td>±10V</td>
</tr>
<tr>
<td><strong>Analog Inputs</strong></td>
<td>14</td>
<td>14</td>
<td>12</td>
<td>16</td>
<td>16</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td><strong>Effective Resolution</strong></td>
<td>16 bit</td>
<td>22 bit</td>
<td>12 bit</td>
<td>12 bit</td>
<td>12 bit</td>
<td>16 bit</td>
<td>22 bit</td>
</tr>
<tr>
<td><strong>Digital I/O</strong></td>
<td>23</td>
<td>23</td>
<td>16</td>
<td>20</td>
<td>16</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td><strong>Logic Level</strong></td>
<td>3.3V</td>
<td>3.3V</td>
<td>3.3V</td>
<td>3.3V</td>
<td>3.3V</td>
<td>3.3V</td>
<td>3.3V</td>
</tr>
<tr>
<td><strong>Analog Outputs</strong></td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>Counters</strong></td>
<td>Up to 10</td>
<td>Up to 10</td>
<td>Up to 10</td>
<td>Up to 2</td>
<td>Up to 2</td>
<td>Up to 2</td>
<td>Up to 2</td>
</tr>
<tr>
<td><strong>USB</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>LJTick Compatible</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Internal Temp Sensor</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Thermocouple Ready</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Ethernet</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Modbus TCP</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Scripting</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Wireless</strong></td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>Real-time Clock</strong></td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td><strong>OEM Version</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Price-USD</strong></td>
<td>$429</td>
<td>$529</td>
<td>$199</td>
<td>$115</td>
<td>$119</td>
<td>$319</td>
<td>$389</td>
</tr>
</tbody>
</table>

### Why LabJack | Quality

» **Have confidence in your measurements.** Every device is individually tested and calibrated.

» **New features and updates are readily available through field-programmable firmware.**

» **Multiple protection mechanisms on every I/O to help prevent electrical damage.**