



LabJack

Measurement & Automation

**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
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PHONE: (303) 942-0228
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E-MAIL: INFO@LABJACK.COM
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LabJack T7

5 YEAR
WARRANTY



- » HIGH PERFORMANCE USB & ETHERNET CONNECTIVITY
- » FULLY COMPATIBLE WITH MODBUS TCP
- » 14 ANALOG INPUTS
- » 16 BIT RESOLUTION HIGH SPEED ADC
- » $\pm 10V$, $\pm 1V$, $\pm 0.1V$, AND $\pm 0.01V$ 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



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5 YEAR
WARRANTY

LabJack
T7-PRO

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 $\pm 10V$ ANALOG INPUTS
- » UP TO 8 0-2.5V ANALOG INPUTS
- » 50 KSAMPLES/S MAX SPEED
- » **AIN-EF**: 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
- » $\pm 10V$ RANGE
- » 50 KSAMPLE/S MAX STREAM RATE
- » 2 ANALOG OUTPUTS
- » UP TO 20 DIGITAL I/O
- » 2 TIMERS AND 2 COUNTERS

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**5 YEAR
WARRANTY**

**LabJack
U3**

PRODUCT COMPARISON

	<u>T7</u>	<u>T7-PRO</u>	<u>T4</u>	<u>U3-LV</u>	<u>U3-HV</u>	<u>U6</u>	<u>U6-PRO</u>
AIN VOLTAGE	±10V	±10V	±10V	0-2.4V	±10V	±10V	±10V
ANALOG INPUTS	14	14	12	16	16	14	14
EFFECTIVE RESOLUTION	16 BIT	22 BIT	12 BIT	12 BIT	12 BIT	16 BIT	22 BIT
DIGITAL I/O	23	23	16	20	16	20	20
LOGIC LEVEL	3.3V	3.3V	3.3V	3.3V	3.3V	3.3V	3.3V
ANALOG OUTPUTS	2	2	2	2	2	2	2
COUNTERS	UP TO 10	UP TO 10	UP TO 10	UP TO 2	UP TO 2	UP TO 2	UP TO 2
USB	YES	YES	YES	YES	YES	YES	YES
LJTick COMPATIBLE	YES	YES	YES	YES	YES	YES	YES
INTERNAL TEMP SENSOR	YES	YES	YES	YES	YES	YES	YES
THERMOCOUPLE READY	YES	YES	No	No	No	YES	YES
ETHERNET	YES	YES	YES	No	No	No	No
MODBUS TCP	YES	YES	YES	No	No	No	No
SCRIPTING	YES	YES	YES	No	No	No	No
WIRELESS	No	YES	No	No	No	No	No
REAL-TIME CLOCK	No	YES	No	No	No	No	No
OEM VERSION	YES	YES	YES	YES	YES	YES	YES
PRICE-USD	\$429	\$529	\$199	\$115	\$119	\$319	\$389



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.

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