

# LabJack

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## Comparison

### The U3, U6, T4, or T7 are recommended for most new applications:

U3: 12-bit analog inputs. USB only. \$130.

T4: 12-bit analog inputs. USB & Ethernet. \$229.

U6: 16-bit analog inputs. USB only. \$345.

T7: 16-bit analog inputs. USB & Ethernet (& WiFi on the -Pro version). \$450.

Pro (U6 or T7): Also adds a 2nd ADC with 24-bit resolution for lower speed (4-160 ms per sample) measurements.

The U3 is our lowest cost device and great for the most cost sensitive applications where 12-bit analog inputs are adequate. The U6 is in the same family but has a greatly improved analog input system. Both of these devices are supported on Windows by our 2nd generation UD library and on Linux and Mac by our low-level Exodriver.

The T4 is our lowest cost device with support for Ethernet communications. It essentially a cross between a U3-HV and a T7. It is easy to use with the 3rd generation cross platform LJM library (Windows/Linux/Mac support) and it is fully compatible with Modbus TCP.

The T7 is our best and most feature packed device. It has the same analog input system as the U6 (except with 2x the max speed), adds Ethernet in addition to USB, and many other improvements over the U6. Like the T4, it is easy to use with the 3rd generation cross platform LJM library (Windows/Linux/Mac support) and it is fully compatible with Modbus TCP.

If 12-bit analog inputs are sufficient consider the U3 or T4. If you need 16 bits of resolution, consider the U6 or T7. If you need even better resolution consider the U6-Pro or T7-Pro. The exact resolution you achieve depends on many factors, but 1 part in 1000 would be typical for a 12-bit system, and 1 part in 20000 would be typical for a 16-bit system.

If you want Ethernet in addition to USB, consider the T-series devices. If you want WiFi consider the T7-Pro.

The T4 & T7 are newer than the U3 & U6. In addition to Ethernet/WiFi, a few more reasons to consider the T4/T7 over the U3/U6 are: LJM library, Modbus TCP, DIO-EF, AIN-EF and Lua scripting.

For more details on how our devices compare to one another, see this [comparison app note](#).

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