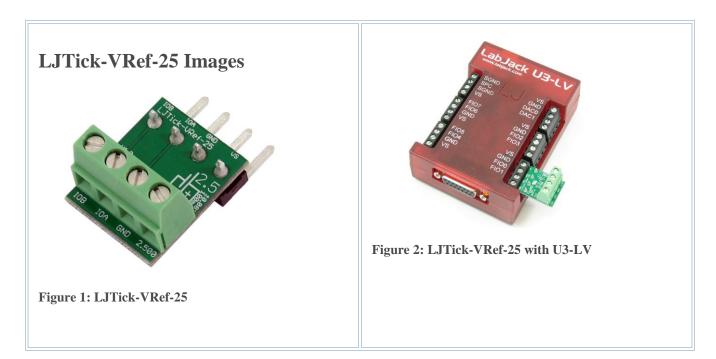
# LJTick-VRef

The LJTick-VRef-25 (LJTVR-25) and LJTick-VRef-41 (LJTVR-41) are accessories that provide screw terminal access to stable 2.5V and 4.096V reference voltages. Reference voltages are useful when trying to communicate with several different sensors ranging from temperature, pressure, flow, motion, vibration, force, and more. The VS line on most of our devices is not suitable for direct control of sensors that require noise free voltage sources. With out a stable reference voltages many applications need to use a digital I/O line, one of the analog output channels, or use a secondary power supply. The LJTVR-25 and LJTVR-41 both have a LJT1461A voltage regulator on board to supply 50mA of current to sensors requiring excitation signals. The LJTick-VRef-25 outputs 2.5V and the LJTick-VRef-41 outputs 4.096V.

#### **Common Applications**

• When ever a regulated 2.5V or 4.1V signal is needed.



## **LJTick-VRef-25 Screw Terminal Descriptions**

**2.500:** This screw terminal outputs the 2.5V reference voltage.

GND: Same as LabJack ground.

**IOA/IOB:** These lines are directly passed through from the screw terminals they are connected to. In Figure 2 they are FIO0 and FIO1.

## LJTick-VRef-41 Images



### **LJTick-VRef-41 Screw Terminal Descriptions**

**4.096:** This screw terminal outputs the 4.096V reference voltage.

GND: Same as LabJack ground.

**IOA/IOB:** These lines are directly passed through from the screw terminals they are connected to. In Figure 4 they are FIO0 and FIO1.

#### **LJTick-VRef Schematic**

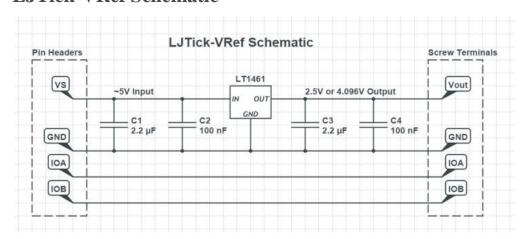


Figure 5: LJTick-VRef Schematic

# **Specifications**

For more specifications refer to the Linear Technology LT1416 datasheet. Both the LJTick-VRef-25 and LJTick-VRef-41 use the "C" variant. The VRef-25 uses the 2.5V variant and the VRef-41 uses the 4V variant.