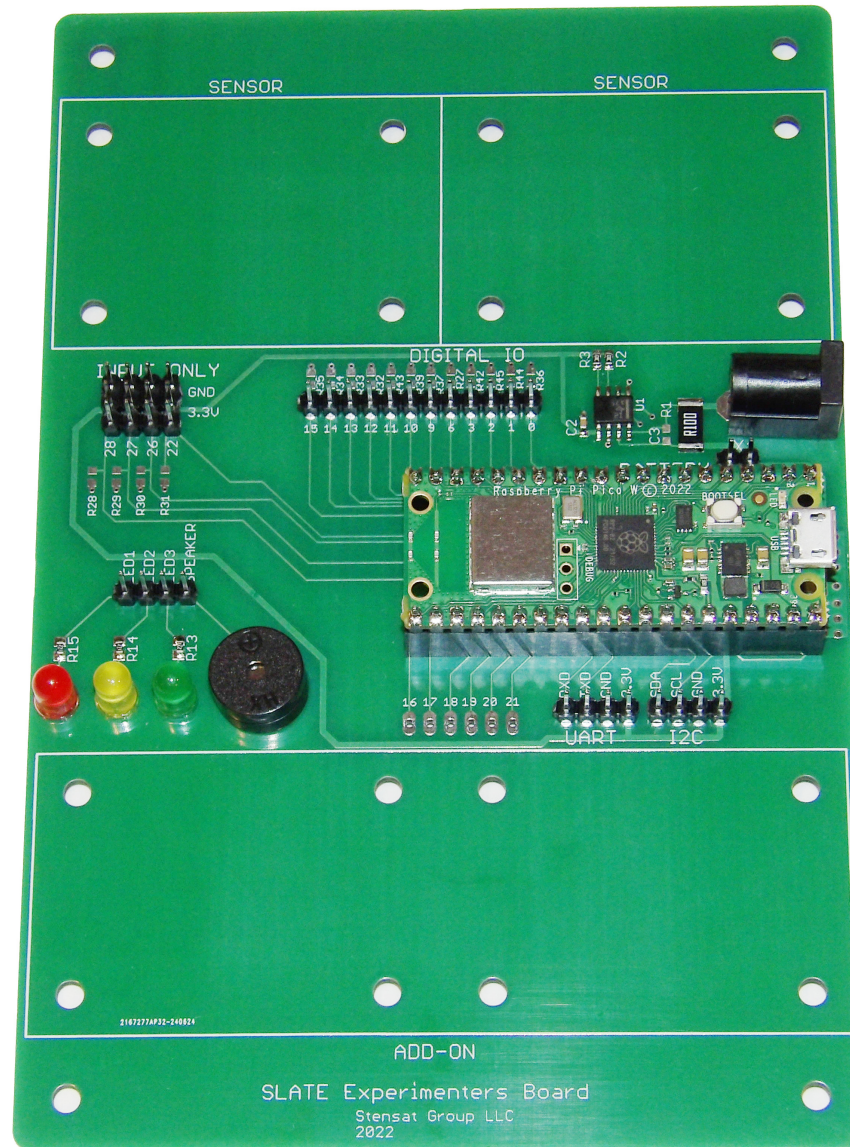


SLATE MicroPython



Legal Stuff

Stensat Group LLC assumes no responsibility and/or liability for the use of the kit and documentation.

There is a 90 day warranty for the Sten-SLATE ESP kit against component defects. Damage caused by the user or owner is not covered.

Warranty does not cover such things as over tightening nuts on standoffs to the point of breaking off the standoff threads, breaking wires off the motors, causing shorts to damage components, powering the motor driver backwards, plugging the power input into an AC outlet, applying more than 9 volts to the power input, dropping the kit, kicking the kit, throwing the kit in fits of rage, unforeseen damage caused by the user/owner or any other method of destruction.

If you do cause damage, we can sell you replacement parts or you can get most replacement parts from online hardware distributors.

This document can be copied and printed and used by individuals who bought the kit, classroom use, summer camp use, and anywhere the kit is used. Stealing and using this document for profit is not allowed.

If you need to contact us, go to www.stensat.org and click on contact us.

Electrostatic Warning

- The Sten-SLATE Experimenters Kit is sensitive to static electricity. Handle with care and be careful to discharge yourself before handling. Use the silver anti-static bag as an anti-static mat. Touch the bag before handling the processor to reduce the risk of damage.
- Work on a flat surface, not the bed, a carpeted floor, other anywhere where static electricity can build up. The warranty does not cover damage due to electrostatic discharge. Fall and winter are times when electrostatic electricity is more prevalent.
- Discharge yourself by touching a metal door frame, a metal lamp that is properly grounded, metal furniture, or some metal structure that is not connected to power.

Mechanical Warning

- Be gentle with the SLATE board. Be very careful inserting and removing the Micro USB connector on the SLATE. Push and pull in line with the connection. Any twisting or pulling up on the cable can break the micro USB connector. Once the USB connector breaks off, the PICO W must be replaced.

Parts List

- Electronics Experimenters Base Board
- Sensor 1 Board with Ultrasound, light and temperature sensor
- Sensor 2 Board with IMU
- 20 F/F Jumpers
- 8 1/2" 4-40 screws
- 16 4-40 nuts
- USBC to USBA adapter
- Micro USB cable

Kit Description

- The Sten-SLATE ESP Experimenters Kit uses the Raspberry PI PICO W with WiFi capability. It is an ARM based 32-bit microcontroller.
- The kit includes three LEDs and a speaker. There are positions to install several sensor boards.
- There are 12 digital connections.
- There are two digital signals organized with power and ground to provide a convenient access to the I2C bus.
- There are another two digital signals organized also with power and ground to provide convenient access to the UART interface. These interfaces will be explained later.
- Power is applied through the USB port or through an external battery. For external power, a barrel jack is provided to connect external power. Up to 12 volts can be applied.
- The kit is designed to be modular so it can be more easily integrated.

