



## STEMTera (Black)

DEV-14082 ROHS

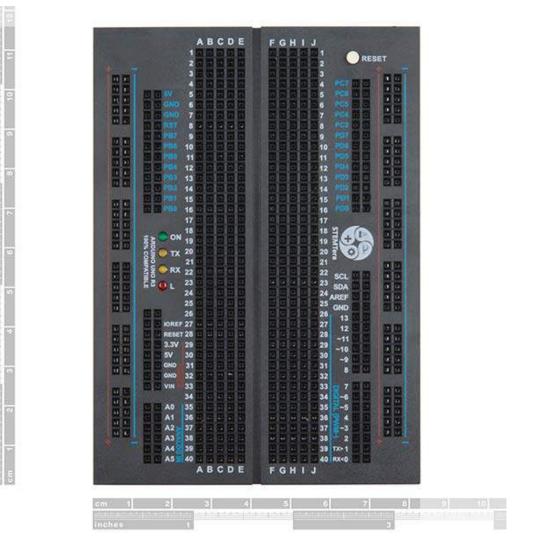
The STEMTera is an innovation in breadboard history. It is the first breadboard with an Arduinocompatible hardware suite built in that works with thousands of shields. With ATmega32U2 pins exposed, native USB projects can be easily developed using the LUFA framework. The STEMTera also features a LEGO®brick-compatible bottom that empowers projects to be built beyond imagination. This version of the STEMTera is housed in a durable black ABS plastic enclosure.

Since the STEMTera is a development board built directly into a breadboard, it eliminates the need for messy wires to be strewn about your work space. By having two microcontrollers built inside the breadboard, it provides direct access to the ATmega328P's I/O pins. With the 21 I/O pins of the ATmega32U2 exposed, users will be able to develop native USB projects with ease. These extra I/O pins can work directly with the LUFA framework without having a middleman to translate messages as with the original Arduino UNO. Additionally, the STEMTera is pin-to-pin compatible with an Arduino UNO R3 shield and supports multiple IDEs, including: Atmel® Studio, Arduino IDE, AVR-GCC, AVR-GCC with LUFA, Scratch and more!

The STEMTera even has a LEGO-compatible 10x14 bottom cover that enables LEGO bricks to be connected directly into the breadboard without using special mounting techniques or adapters

## Features

- Dual Microcontroller ATmega328P & ATmega32U2
- LEGO<sup>®</sup> Compatible Bottom Cover
- USB Native Development
- 4 LEDs (Power, TX, RX and L)
- Black ABS Enclosure
- IDE Support
  - o Atmel® Studio
  - Arduino IDE
  - AVR-GCC
  - AVR-GCC with LUFA
  - o Scratch
- 111.8mm x 79.8mm x 16.1mm



https://www.sparkfun.com/products/14082 3-20-18