



STEMTera (Orange)

DEV-14279 RoHS



Description: The STEMtera is an innovation in breadboard history. It is the first breadboard with an Arduino-compatible hardware suite built in that works with thousands of shields. With ATmega16U2/32U2 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 orange 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. Having two microcontrollers built inside the breadboard provides direct access to ATmega328P and ATmega16U2'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.

Dimensions: 111.8mm x 79.8mm x 16.1mm

Features:

- Dual Microcontroller — ATmega328P & ATmega16U2
- LEGO-Compatible Bottom Cover
- USB Native Development
- 4 LEDs (Power, TX, RX and L)
- Orange ABS Enclosure
- IDE Support
 - Atmel Studio
 - Arduino IDE
 - AVR-GCC
 - AVR-GCC with LUFA
 - Scratch

