



49.95 EUR

incl. 19% VAT, plus shipping

The worlds first Arduino compatible built-in breadboard with Arduino shields, LEGO® bricks and native USB support.

STEMTera Breadboard is an innovation in breadboard history. It is the first breadboard with an Arduino compatible built-in that works with thousands of shields. With ATmega16U2/32U2 exposed, native USB projects can be easily developed using the LUFA framework. The LEGO® compatible bottom cover empowers projects to be built beyond imagination.

STEMTera Breadboard can be programmed like a regular Arduino UNO using :

- Atmel® Studio
- Arduino IDE
- AVR-GCC
- AVR-GCC with LUFA
- Codebender
- Scratch
- Or any other programming environment that the original Arduino UNO can be programmed from

### **General Specifications :**

Model : Breadboard 328

Part Number : STM100001 to STM100007

Dimensions : 111.8 x 79.8 x 16.1 mm

Packaging Dimensions : 165 x 110 x 40 mm

Nett Weight : 132 grams

Gross Weight : 200 grams (with packaging)

Tie Point : 634 ( 2 power buses, 1 full Arduino Uno R3 compatible pinout, full ATmega16U2 pinout and 80 x 5 terminal strips)

Wire Gauge : 20 - 24 AWG (22 AWG solid wire is highly recommended for good connections)

Material : ABS

Indicator : 4 LEDs ( Power, TX, RX and L )

### **Hardware Specifications :**

Arduino Compatible Section

Microcontroller : ATmega328P-AU

Operating Voltage : 5VDC

Input Voltage : 6 - 20VDC (recommended 7 - 12VDC)  
Digital I/O : 14 (of which 6 provide PWM output)  
PWM : 6  
Analog Input : 6  
DC current per IO : 20mA  
Flash Memory : 32KB  
SRAM : 2KB  
EEPROM : 1 KB  
Clock Speed : 16 MHz

ATmega16U2 / 32U2 Section  
Microcontroller : ATmega16U2 / 32U2  
Operating Voltage : 5VDC  
Input Voltage : 6 - 20VDC (recommended 7 - 12VDC)  
Digital I/O : 21 (of which 3 provide PWM output)  
PWM : 3  
DC Current per I/O : 20mA  
Flash Memory : 16KB / 32KB  
SRAM : 512B / 10124B  
EEPROM : 512B / 1024B  
Clock Speed : 16Mhz

More informations at [Kickstarter](#)