



49.95 EUR

incl. 19% VAT, plus [shipping](#)

- Kickstarter project !

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](#)