

# m-Bitbeam EDU set (basic electronic parts and modules)

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[http://www.tfsoft.cz/m-bitbeam/index\\_en.html](http://www.tfsoft.cz/m-bitbeam/index_en.html)

(more recent [http://www.tfsoft.cz/m-bitbeam/index\\_cs.html](http://www.tfsoft.cz/m-bitbeam/index_cs.html))

<http://www.e-mole.cz/diy/m-bitbeam>

3D STL parts repository: [https://github.com/e-Mole/m-Bitbeam\\_Parts\\_for\\_3Dprint](https://github.com/e-Mole/m-Bitbeam_Parts_for_3Dprint)

## Arduino UNO

[https://www.aliexpress.com/store/product/UNO-R3-CH340G-ATmega328P-compatible-for-Arduino-UNO-R3/1950989\\_32523366108.html](https://www.aliexpress.com/store/product/UNO-R3-CH340G-ATmega328P-compatible-for-Arduino-UNO-R3/1950989_32523366108.html)

...or Arduino UNO (more pins, more expensive)

<https://www.aliexpress.com/item/Best-prices-UNO-R3-MEGA328P-ATMEGA16U2-for-Arduino-Compatible-Free-Shipping-Dropshipping/2050129579.html>

...or Arduino NANO

<https://www.aliexpress.com/item/Nano-V3-ATmega328-CH340G-Micro-USB-Pin-headers-NOT-soldered-Compatible-for-Arduino-Nano-V3-0/32664577152.html>

+ Arduino NANO sensor shield

<https://www.aliexpress.com/item/Nano-I-O-expansion-Shield-for-Arduino-Nano-V3-pinout-Assembled/32633286806.html>

(Arduino NANO + Arduino NANO sensor shield – this is a better choice than Arduino UNO 😊)

## Small OLED display

<https://www.aliexpress.com/item/Free-Shipping-10Pcs-white-128X64-OLED-LCD-0-96-I2C-IIC-SPI-Serial-new-original/32390502961.html>

## Continuous rotating servo (big servo MG995)

<https://www.aliexpress.com/item/Free-shipping-2x-Servo-360-Degree-Continuous-Rotation-Servo-MG995-Metal-Gear-Arduino-Servo-Digital-Servo/1645808974.html>

## Small servo (MG90S, metal gears!)

<https://www.aliexpress.com/item/2Pcs-MG90S-Metal-Gear-Micro-Tower-Pro-Servo-For-Helicopter-Plane-Boat-Car/1859110497.html>

## Magnetic Hall Sensor Module (4pin – analog out + digital out)

<https://www.aliexpress.com/item/Factory-Selling-Free-Shipping-10pcs-lot-Linear-Magnetic-Hall-Sensor-Module-KY-024/32470668685.html>

## Digital temp Sensor Module (4pin – analog out + digital out)

<https://www.aliexpress.com/item/Factory-Wholesale-Free-Shipping-10pcs-Lot-Digital-temp-Sensor-Module/32474051349.html>

**Light module (Photoresistor module) (4pin – analog out + digital out)**

<https://www.aliexpress.com/item/1PCS-Optical-Sensitive-Resistance-Light-Detection-Photosensitive-Sensor-Module-for-Arduino-4pin-DIY-Kit/32723947241.html>

**Passive Buzzer Module**

<https://www.aliexpress.com/item/Factory-Wholesale-Free-Shipping-20pcs-High-Quality-Passive-Buzzer-Module/32635074847.html>

**IR Module set (Remote Control + Receiver HX1838)**

<https://www.aliexpress.com/item/1Set-Infrared-Remote-Control-Module-Wireless-IR-Receiver-Module-DIY-Kit-HX1838-for-Arduino-Raspberry-Pi/32675236938.html>

**Infrared reflectance sensor module (obstacle avoidance, line follower, ...)**

<https://www.aliexpress.com/item/free-shipping-20pcs-lot-TCRT5000-infrared-reflectance-sensor-Obstacle-avoidance-module-tracing-sensor-tracing-module/32462606777.html>

**Dual-axis XY Joystick Module**

<https://www.aliexpress.com/item/10PCS-LOT-Dual-axis-XY-Joystick-Module-Free-Shipping-for-arduino-KY-023/32292387066.html>

**DuPont line 20 cm male to male + male to female and female to female**

<https://www.aliexpress.com/item/Free-shipping-Dupont-line-120pcs-20cm-male-to-male-male-to-female-and-female-to-female/32343840673.html>

**Mini breadboard 400**

<https://www.aliexpress.com/item/Free-Shipping-Quality-mini-bread-board-breadboard-8-5CM-x-5-5CM-400-holes-Bread-plate/1811831163.html>

**Ultrasonic module HC-SR04**

[https://www.aliexpress.com/store/product/10PC-HC-SR04-Free-shipping-to-world-Ultrasonic-Wave-Detector-Ranging-Module-HC-SR04-HC-SR04/731260\\_32467233971.html](https://www.aliexpress.com/store/product/10PC-HC-SR04-Free-shipping-to-world-Ultrasonic-Wave-Detector-Ranging-Module-HC-SR04-HC-SR04/731260_32467233971.html)

**Sound Microphone Sensor Detection Module**

[https://www.aliexpress.com/store/product/5pcs-Sensitive-Sound-Microphone-Sensor-Detection-Module-For-Arduino-AVR-PIC/1414081\\_32303092872.html](https://www.aliexpress.com/store/product/5pcs-Sensitive-Sound-Microphone-Sensor-Detection-Module-For-Arduino-AVR-PIC/1414081_32303092872.html)

**RGB LED module**

<https://www.aliexpress.com/item/10-pcs-KEYES-KY-009-RGB-3-Color-Full-Color-LED-SMD-Module-Sensor-For-AVR/32262315979.html>

**Bluetooth module HC-06**

<https://www.aliexpress.com/item/10pcs-4pin-hc-06-Bluetooth-transmission-module-including-base-plate-belt-enable-and-output-radio-serial/1886484019.html>

**Color sensor (Not yet listed in m-Bitbeam parts, but will soon be there :-))**

<https://www.aliexpress.com/item/J34-Free-Shipping-1PC-New-TCS230-TCS3200-Detector-Module-Color-Recognition-Sensor-for-MCU-for-Arduino/32581015856.html>

**Briefcase**

<http://www.artplast.it/?sid=1&cid=2&lid=&tid=11&pid=193>