# Building:bit
## Super kit

Based on Micro:bit    Programmable building block kit

**16 models**

# Based on Micro:bit

Micro:bit is a tiny computer development board designed by the British Broadcasting Corporation(BBC) designed for youth programming education

# Hold the building blocks and build the future

Exercise children's practical ability and imagination,let children experience the fun of freedom in building blocks

| Mobile shooter | Pretty car | Clip robot | Proficient carrier | Biped robot | Changing face | Carousel | Oscillating fan |
| Skip car | Freestyle | Spider | Lifting platform | Airplane | Unicycle | Auto-door | Dragon Knight |

# Two programming methods

Graphical programming + Python programming All relevant course materials are free

## Graphical programming for 8 to 12 -year- old children

This kit is based on Micro:bit development board, supporting MakeCode graphical programming, making children learn programming without threshold, and exercising logical thinking.

## Python programming for over 12-year-old children

Python language is simple and easy to learn. With universality and portability, it is a popular choice from graphical programming to code programming.

# Full color page project guide

The ultra-detailed 169-page paper manual contains 3D Chinese and English building tutorials, so that each child can complete the building independently, easily and understandable.

Each step has a detailed tutorial and a list of required parts

# Up to 80+ gameplay

Fun experiment, compatible with playability and teaching More creative gameplays are waiting for you to unlock

## Spider

Assembly difficulty: ★☆☆☆☆

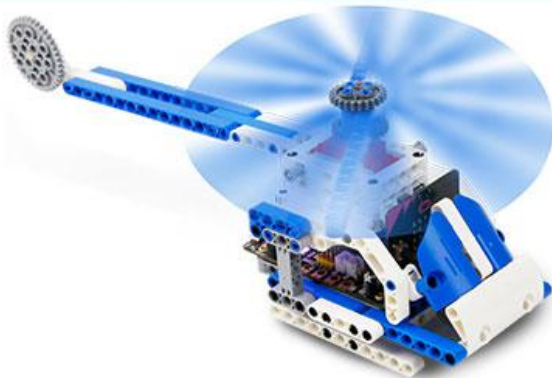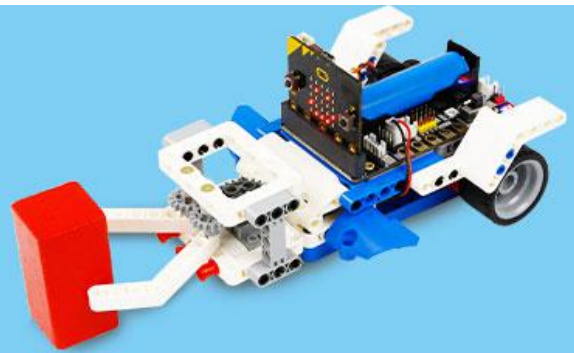Featured play: stride meteor, singing and dancing spider

Knowledge and skills: Spider bionic design, through the building block motor gear transmission structure, make the spider's "8 feet" rise and fall alternately, complete the crawling action

## Clip robot

Assembly difficulty: ★★☆☆☆

Featured gameplay: Button control grip, hand dance

Knowledge and skills: the car uses two motors to achieve different motion states; control the angle of the servo of the building block to realize the function of opening and closing the clip

## Airplane

Assembly difficulty: ★★★☆☆

Featured play: sailing prelude, whistle alarm

Knowledge and skills: Create a helicopter shape, imitate the rotation of the propeller on the top of the helicopter through the rotation of the building block motor

# Unicycle

Assembly difficulty: ★★★★☆

Featured gameplay: The clumsy little crawler

Knowledge and skills: Unique inverted "V" shape, when the building block motor rotates, the trolley will expand and contract with it like a small bug is creeping

# Auto-door

Assembly difficulty: ★★★★☆

Featured gameplay: the model on duty, the door to music

Knowledge and skills: control the expansion and contraction of building blocks by controlling the angle of the servo to achieve the effect of automatic doors

# Biped robot

Biped robot: ★★★★★

Featured gameplay: Elegant pace, tricky RGB lights

Knowledge and skills: The building block motor is located at the head of the shape. Through its rotation, it can drive the "biped" of the robot to continuously move alternately, achieving the effect of bionic walking.

# Mobile phone can make building blocks move

16 models can be controlled remotely through the exclusive APP, which is simple and easy to use, full of control fun, and also makes various brain-opening gameplay possible
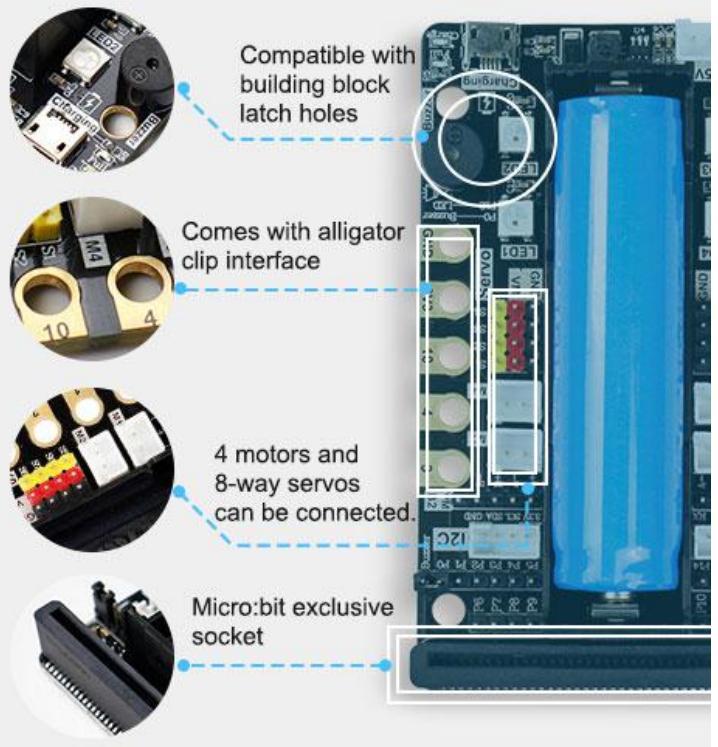
iOS

Android

*Android users search for"Mbit" in Play Store; iOS users search for "Mbit" in App Store.

# The art of combining building blocks with technology

Super:bit is an advanced expansion board suitable for Micro:bit board. The design compatible with building blocks can exert your imagination

Compatible with building block latch holes

Comes with alligator clip interface

4 motors and 8-way servos can be connected.

Micro:bit exclusive socket

# Massive course materials

Experience the fun of building blocks Learn programming related knowledge

Learning materials:http://www.yahboom.net/study/buildingbit-super-kit

## MakeCode graphical programming / Python programming

**Preparation before class**
2.1 About BBC micro:bit
2.2 About Super:bit expansion board
2.3 MakeCode Graphical Programming Guide
2.4 Python Programming Guide
2.5 Super:bit MicroPython API

**0.Basic course**
1.Buzzer play music
2.Control RGB color
3.Control all RGB lights
4.Drive 270° building block servo
5.Drive 180° servo
6.Drive motor
7.Drive stepper motor

**A.Mobile shooter**
1.Cannonball shooting
2.Music fortress
3.APP control
4.Micro:bit handle control

**B.Pretty car**
1.Dancer
2.APP control
3.Micro:bit handle control

**C.Clip robot**
1.Dancing and singing
2.Button control clip
3.APP control
4.Micro:bit handle control

**D.Proficient carrier**
1.Dancing
2.Button control shovel
3.Transportation
4.APP control
5.Micro:bit handle control

**E.Skip car**
1.Dance battle
2.Button control skip car
3.Powerful carrier
4.APP control
5.Micro:bit handle control

**F.Freestyle**
1.Dancing and singing
2.Freestyle advance
3.APP control
4.Micro:bit handle control

**G.Spider**
1.spider advance
2.The dancing spider

3.APP control
4.Micro:bit handle control

**H.Lifting platform**
1.Automatic Lift
2.Button control platform
3.APP control
4.Micro:bit handle control

**I.Biped robot**
1.Walking
2.Dancing and singing
3.APP control
4.Micro:bit handle control

**J.Changing Face**
1.Changing face
2. Bite the hand crocodile
3.APP control
4.Micro:bit handle control

**K.Carousel**
1.Music carousel
2.APP control
3.Micro:bit handle control

**L.Oscillating fan**
1.Colorful windmill

2.Summer cooling artifact
3.APP control
4.Micro:bit handle control

**M.Airplane**
1 Sailing Prelude
2.APP control
3.Micro:bit handle control

**N.Unicycle**
1.Clumsy reptile
2.APP control
3.Micro:bit handle control

**O.Auto-door**
1.Soldiers on duty
2.Music door
3.APP control
4.Micro:bit handle control

**P.Dragon knight**
1.Waving wings
2.APP control
3.Micro:bit handle control

**Detail:**

# Product parameters

Product name:  Building:bit Super kit programmable building block kit

Applicable age:  8 years old and above

Programming language:  MakeCode graphical programming / Python programming

Remote control method:  Bluetooth APP / Micro:bit gamepad

Main material:  ABS

Package weight:  about 1400g

Packing box size:  288*213*68mm

Battery type:  Rechargeable lithium battery

Life time:  120 minutes

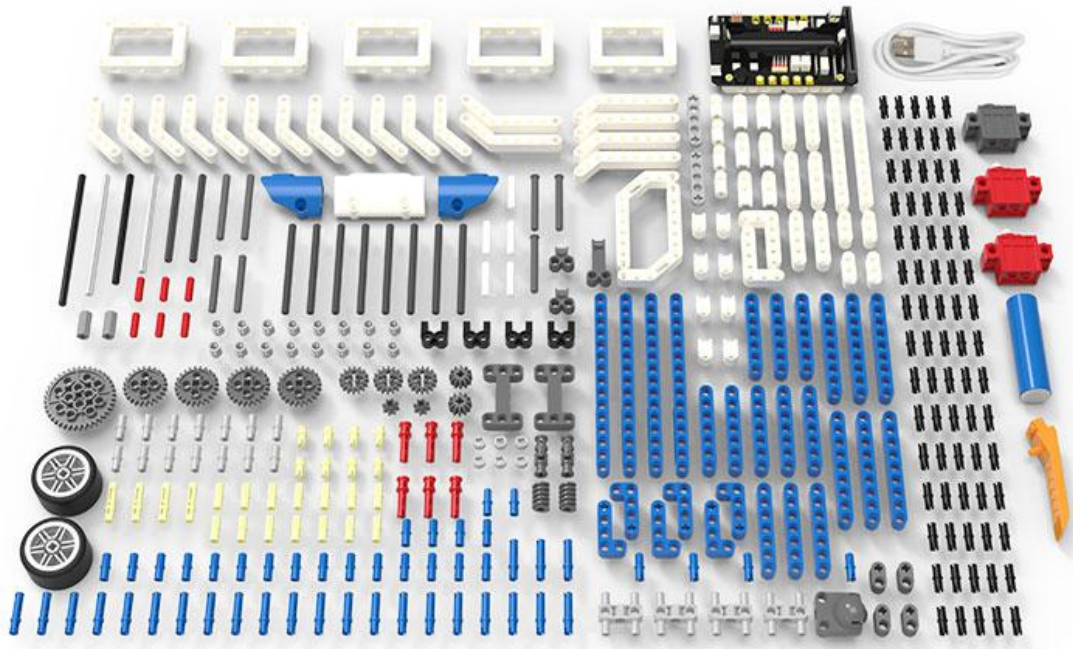Battery energy:  3.7V / 1200mAh

Working temperature:  4~40℃

Onboard function:  RGB lights, buzzer, etc.

Number of building blocks:  358 high-precision building blocks

Motor / Servo: 2 motors, 1 servo

**Shopping list:**

**Tutorial:**

[Yahboom Building:bit superkit](#)