

Ultimate 2.0

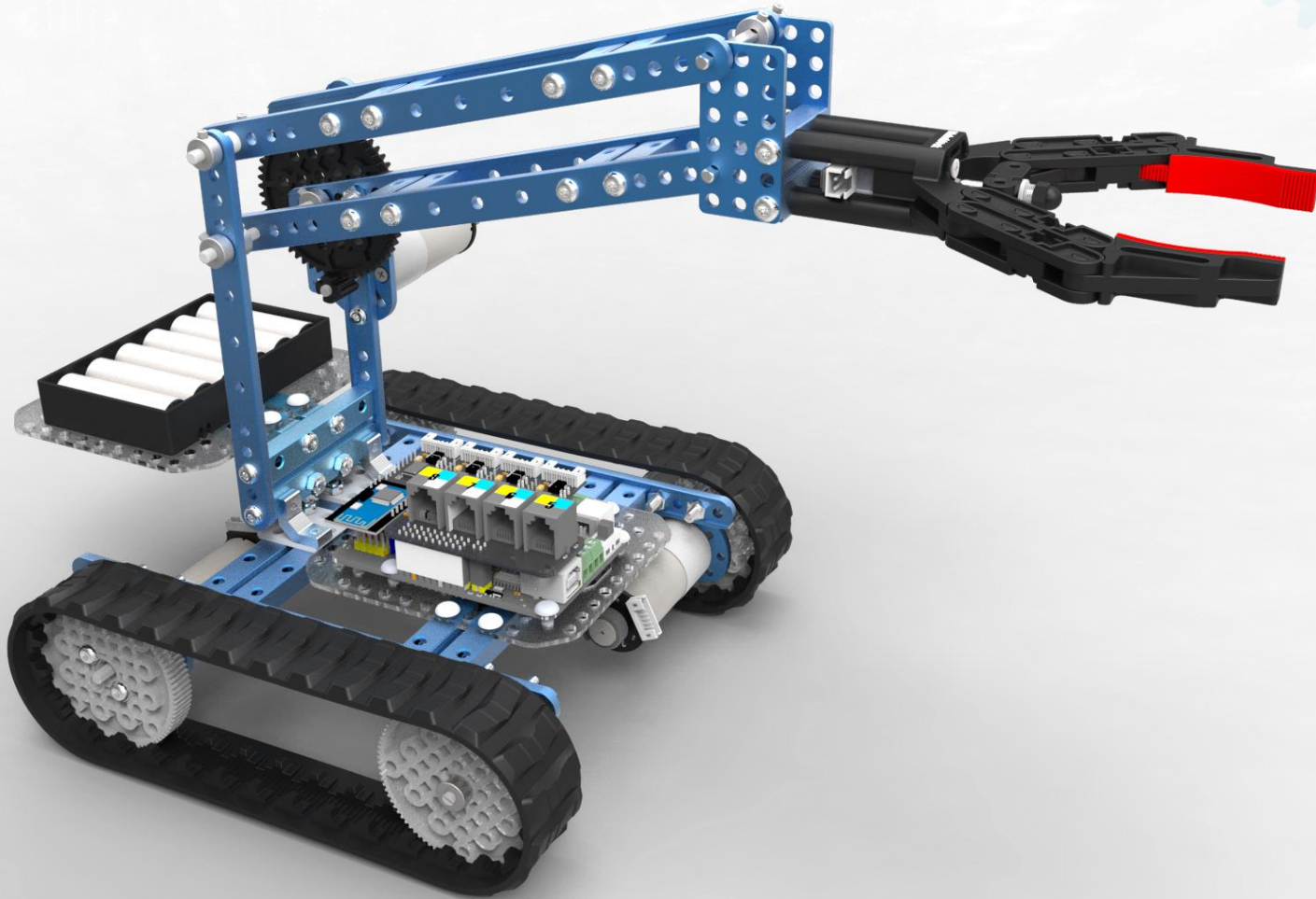
MegaPi
inside

Learn ,Make and Control Your Own Robots

Ultimate 2.0

Based on Makeblock robot building platform, Ultimate 2.0 is a flagship robot kit with rich features and strong compatibility. Whether you are an enthusiast of Raspberry Pi or Arduino, a mechanical or electronics engineer, teachers or students, it lets you learn mechanical structures, electronic modules and programming skills with ease. Learn to build and control Ultimate 2.0 while enjoying the fun of creating.

Five Forms



Robotic Arm Tank

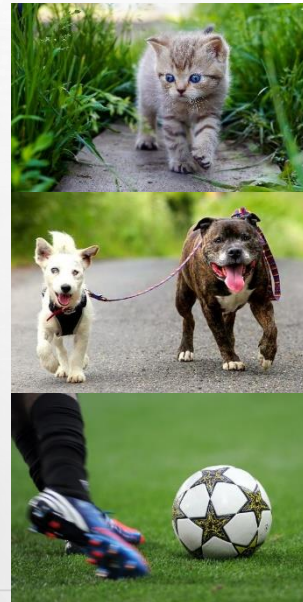
Consisting of a highly adaptable track chassis and a flexible robotic arm, robotic arm tank lets you grip, lift or deliver objects in all kinds of terrains.

Five Forms

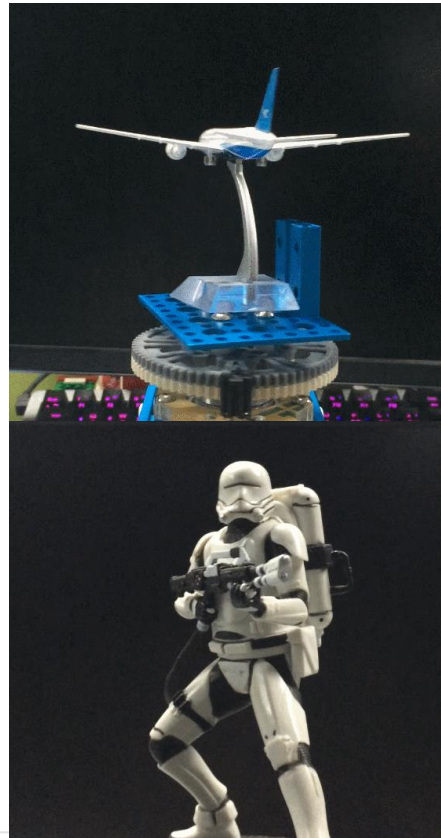
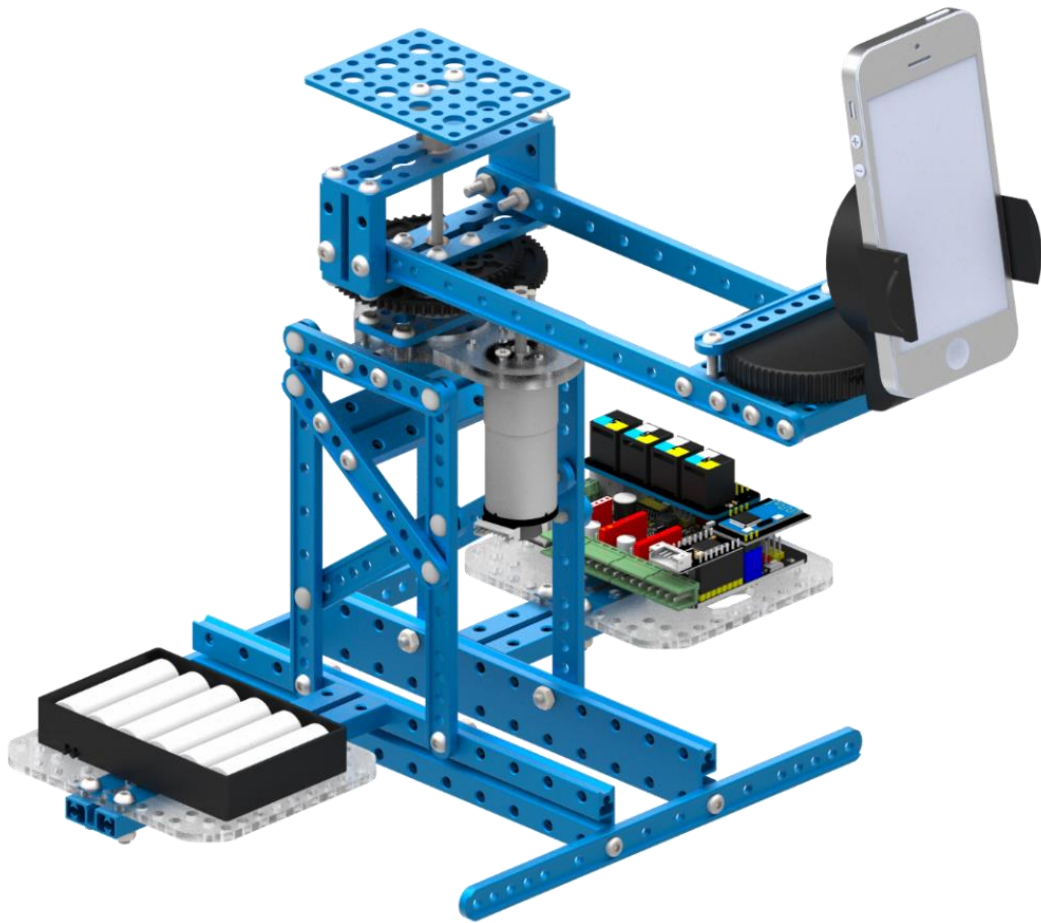


Camera Dolly

Camera Dolly is made up of a mobile chassis and a 360-degree swivel base. By adding a filming device, this robot makes filming your life from a low angle easier. Or pre-set path for the robot to capture every moment of your life. (Motion noise may affect the sound recording.)



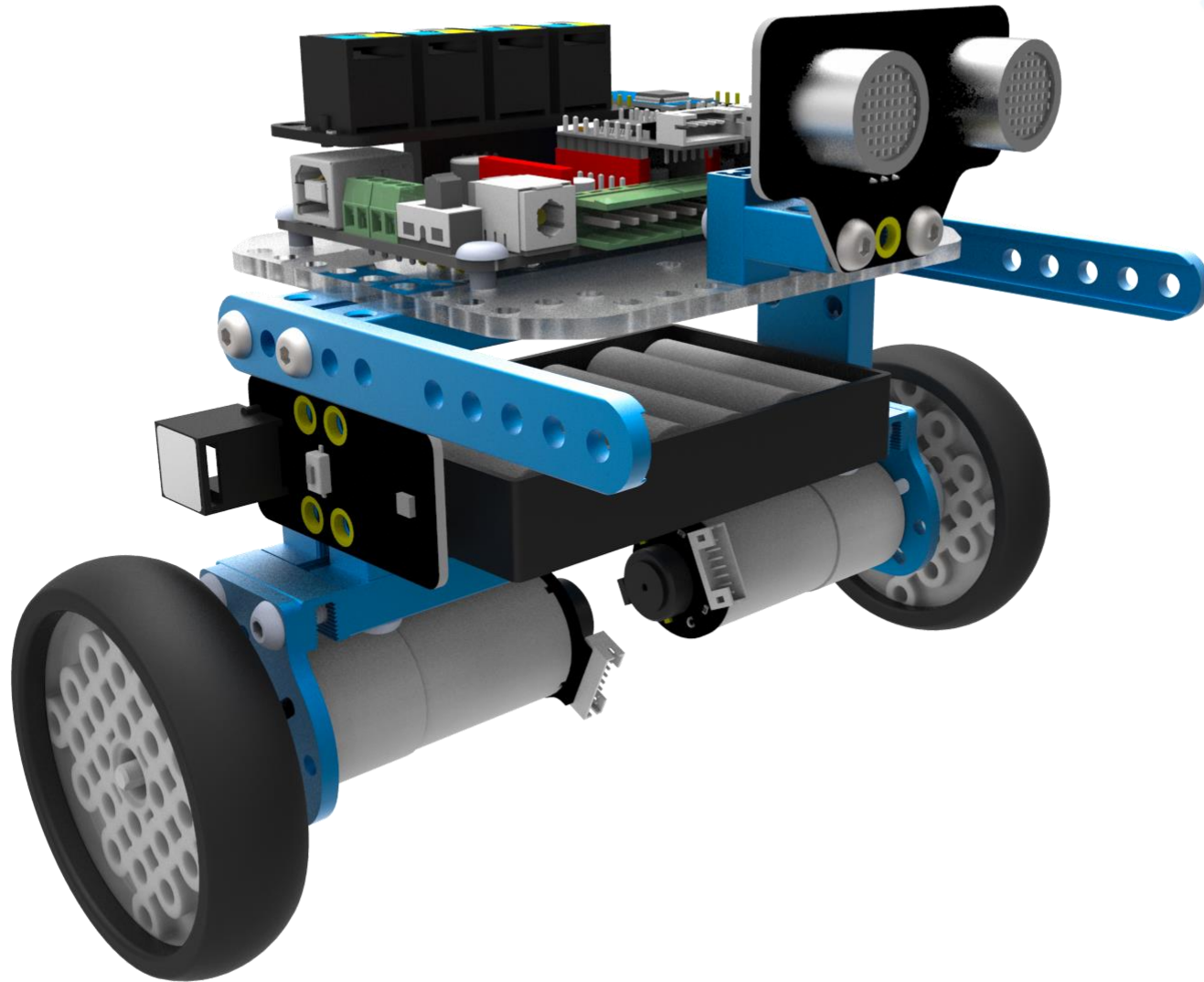
Five Forms



3D Capture

3D Capture is a simple yet powerful 360-degree rotating platform, consisting of a cell phone holder and a rotating structure. By combining with a cell phone, you can realize 360-degree panoramic filming or let it film while turning around small objects. And when connected with an third-party App, it can realize simulation of 3D scanning

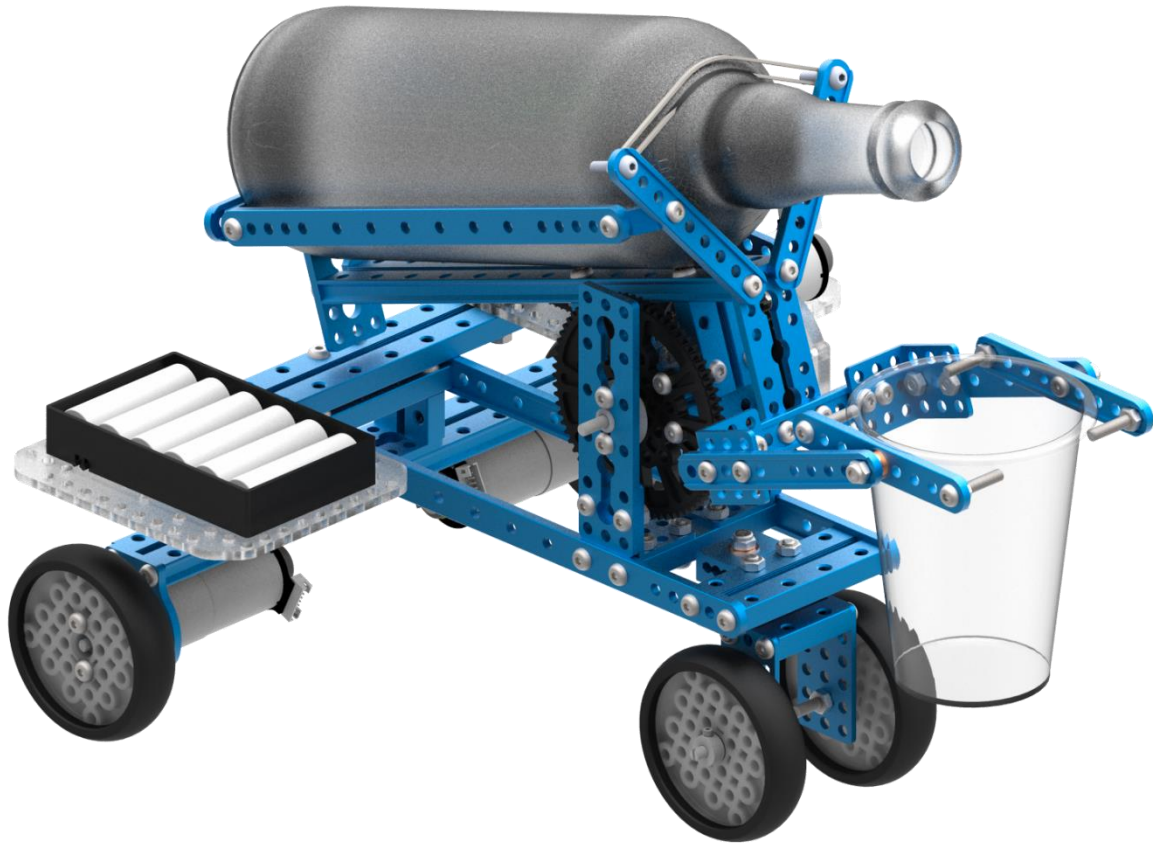
Five Forms



Self-Balancing Robot

Self-balancing robot is a two-wheel self-balancing structure driven by an encoder motor. This little roly-poly robot can move forward and backward freely, looking very cute.

Five Forms

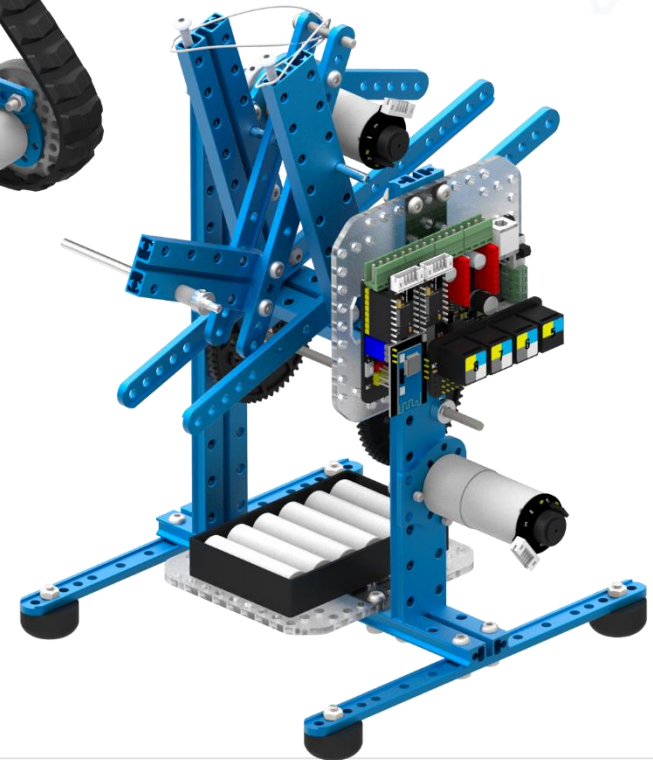
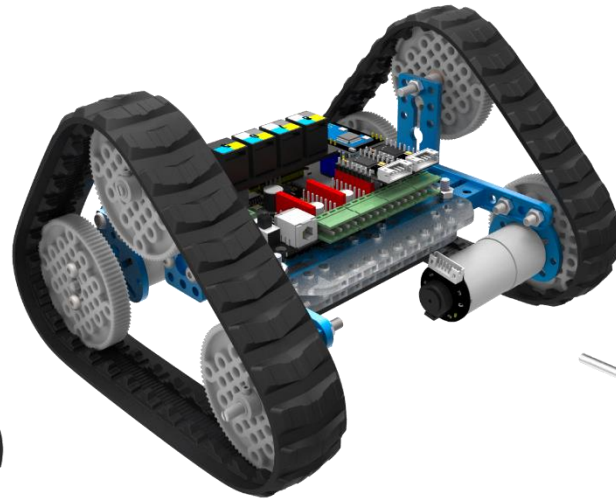
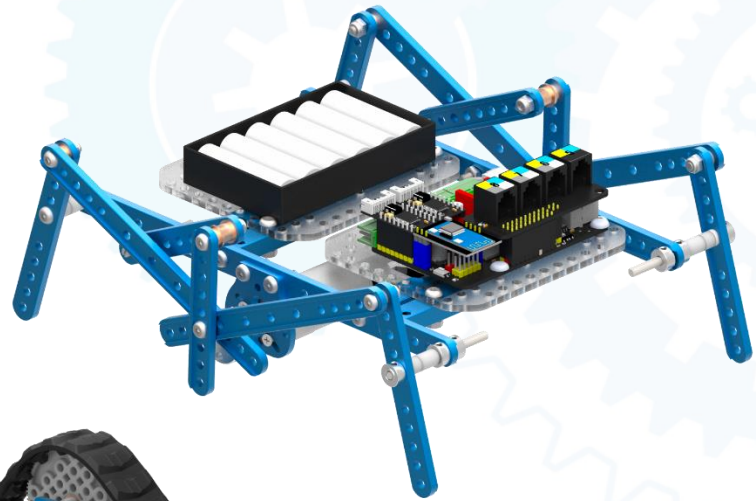
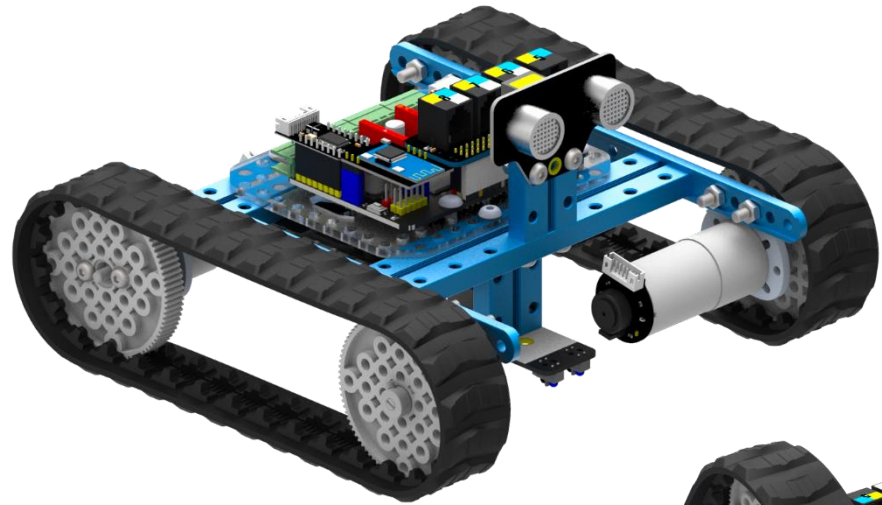


Robotic Bartender

Robotic Bartender is made up of a mobile chassis, a variable angle support structure and a self-adaptive bracket. It independently pours wine into a glass (or do other similar actions) and deliver the wineglass to you.



More Forms



Main Feature 1



Coming soon

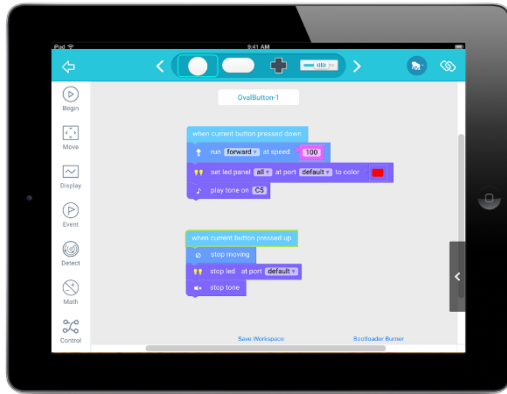


Makeblock HD 2.0

App
Enabled

- By combining with the App on smart devices, you trigger the magic by simply using your fingers.

Main Feature 2

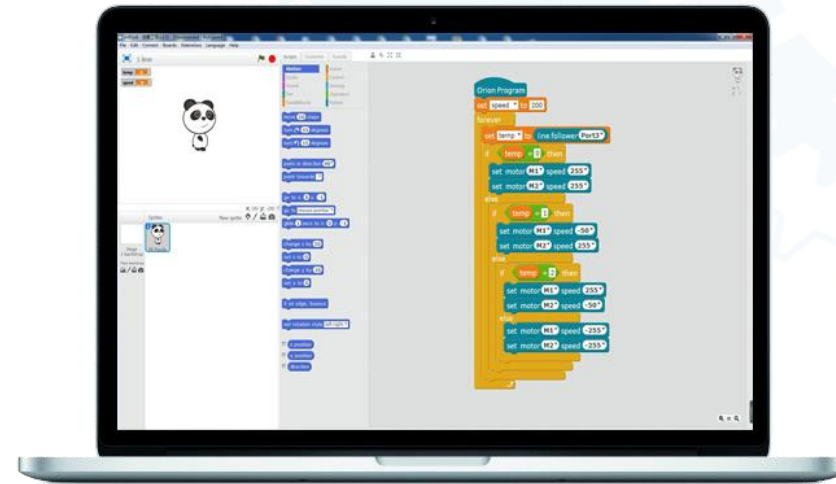


Android



iOS

Makeblock HD 2.0



Windows



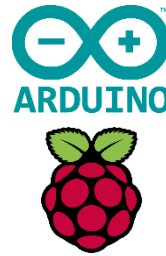
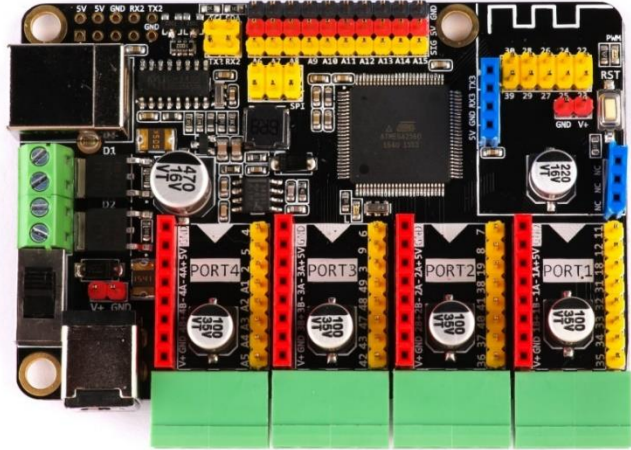
Mac OS

mBlock

Support
various
programming
language

- Ultimate 2.0 supports Arduino IDE programming, graphical programming and Python programming (required to combine with Raspberry Pi)

Main Feature 3



MegaPi

Arduino Mega 2560

4 × Stepper Motor driver interfaces

4 × Encoder Motor driver interfaces

8 × DC Motor driver interfaces

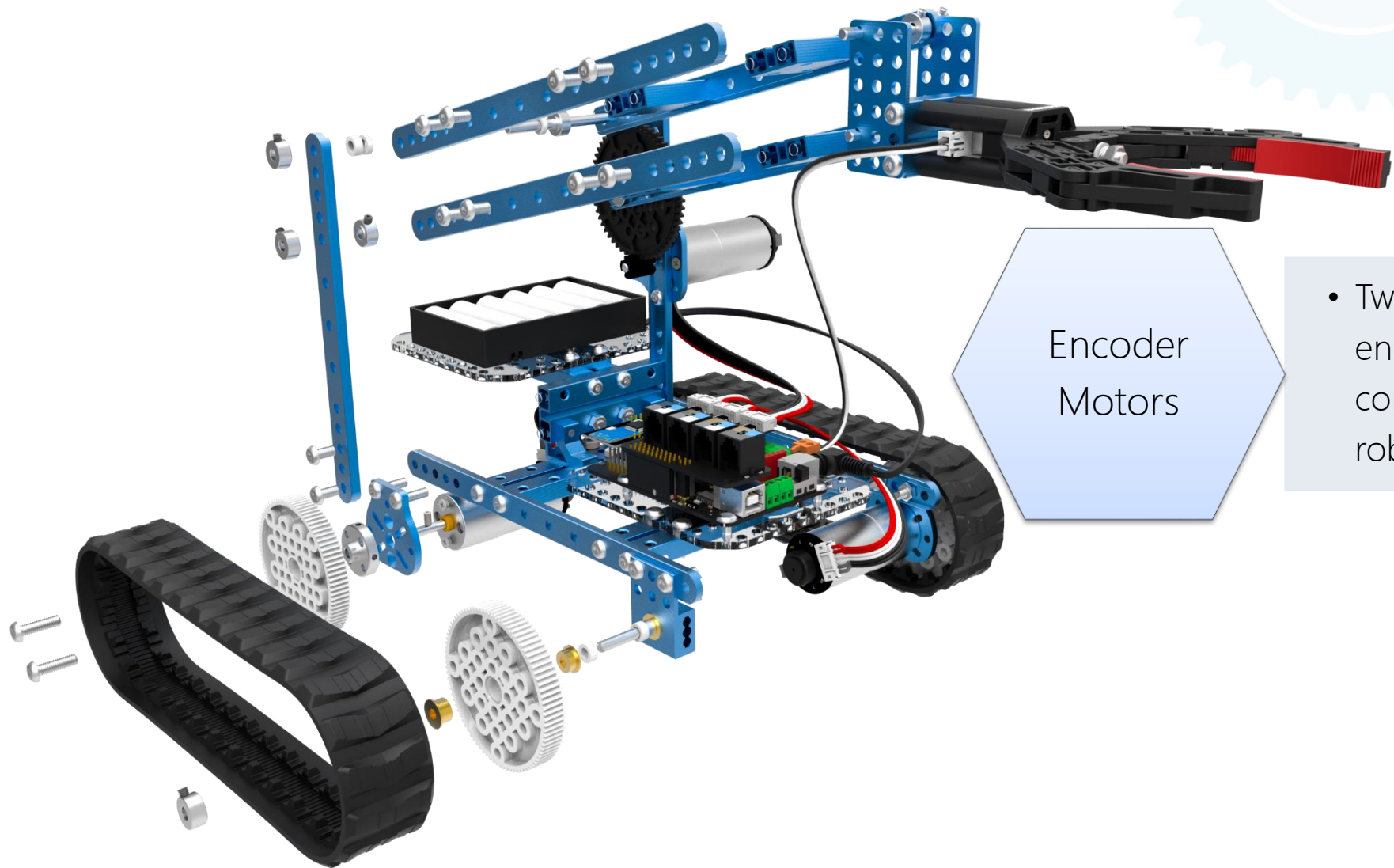
4 × Port interface

Raspberry Pi Compatible

Compatible with Arduino & Raspberry Pi

• MegaPi is powered by the Mega2560 chip and supports Raspberry Pi serial communication. It is capable of driving up to 8 DC motors or 4 encoder motors simultaneously. Whether you are an Arduino enthusiast or Raspberry Pi fan, or just someone who wants to have more motion control experience, the MegaPi is a main control board made for everyone. Enjoy extraordinary experience with its endless possibilities. (Or combined with Raspberry Pi to realize more interesting interactions)

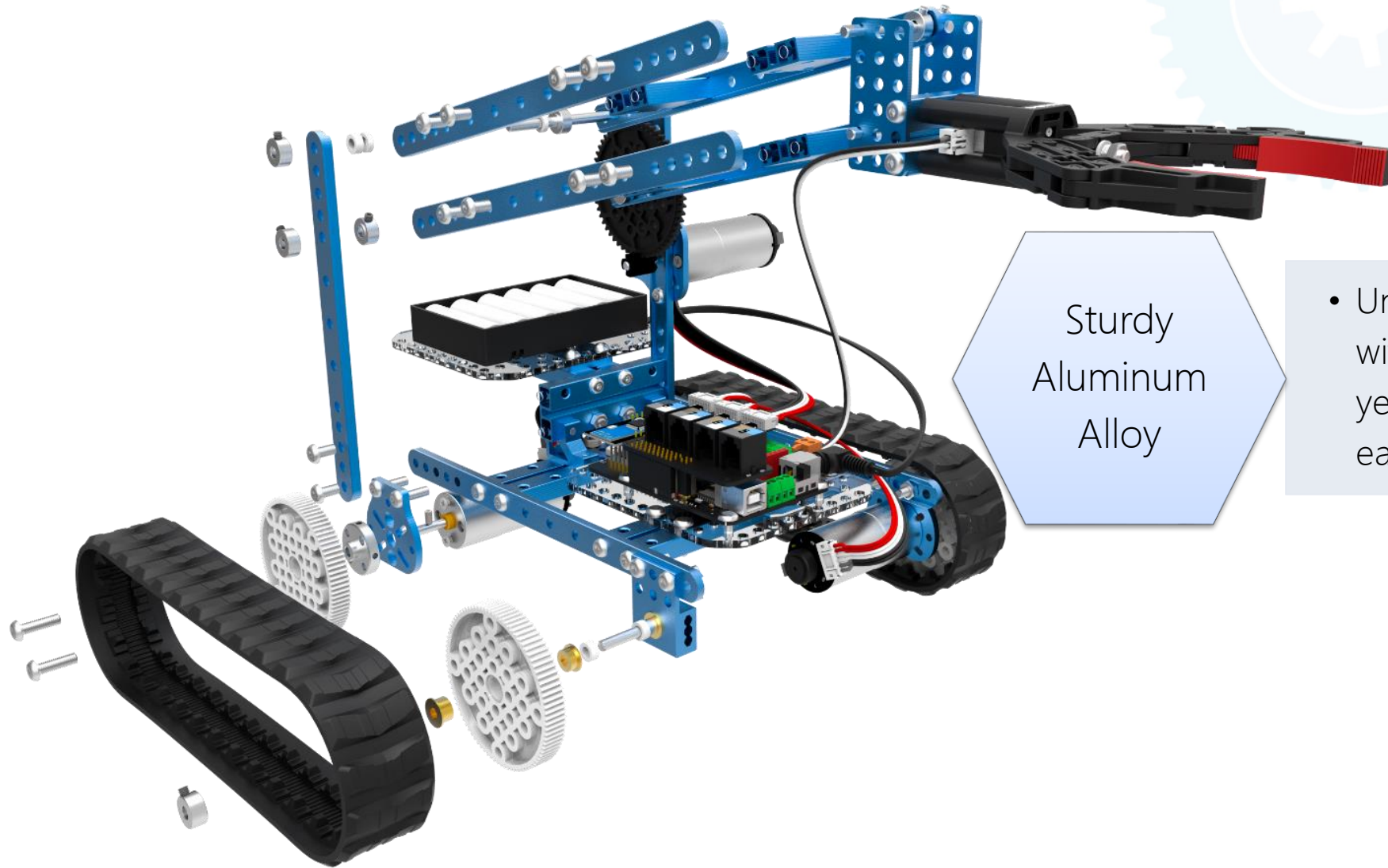
Main Feature 4



Encoder
Motors

- Two powerful encoder motors and one encoder motor let you experience controlling every single move of the robot.

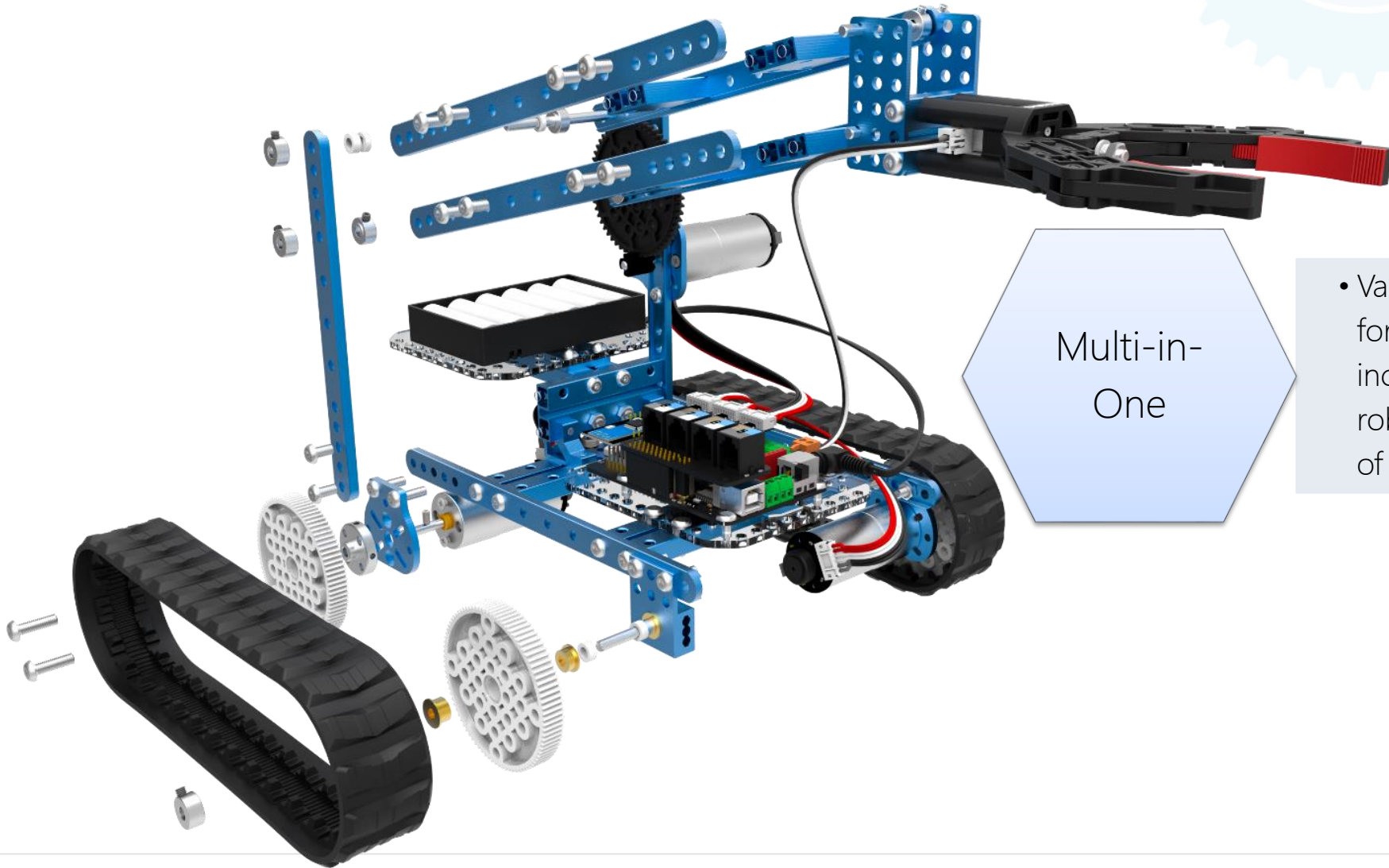
Main Feature 5



Sturdy
Aluminum
Alloy

- Unique anodized 6061 aluminum alloy with threaded-slot design, lightweight yet sturdy, makes the building part easier.

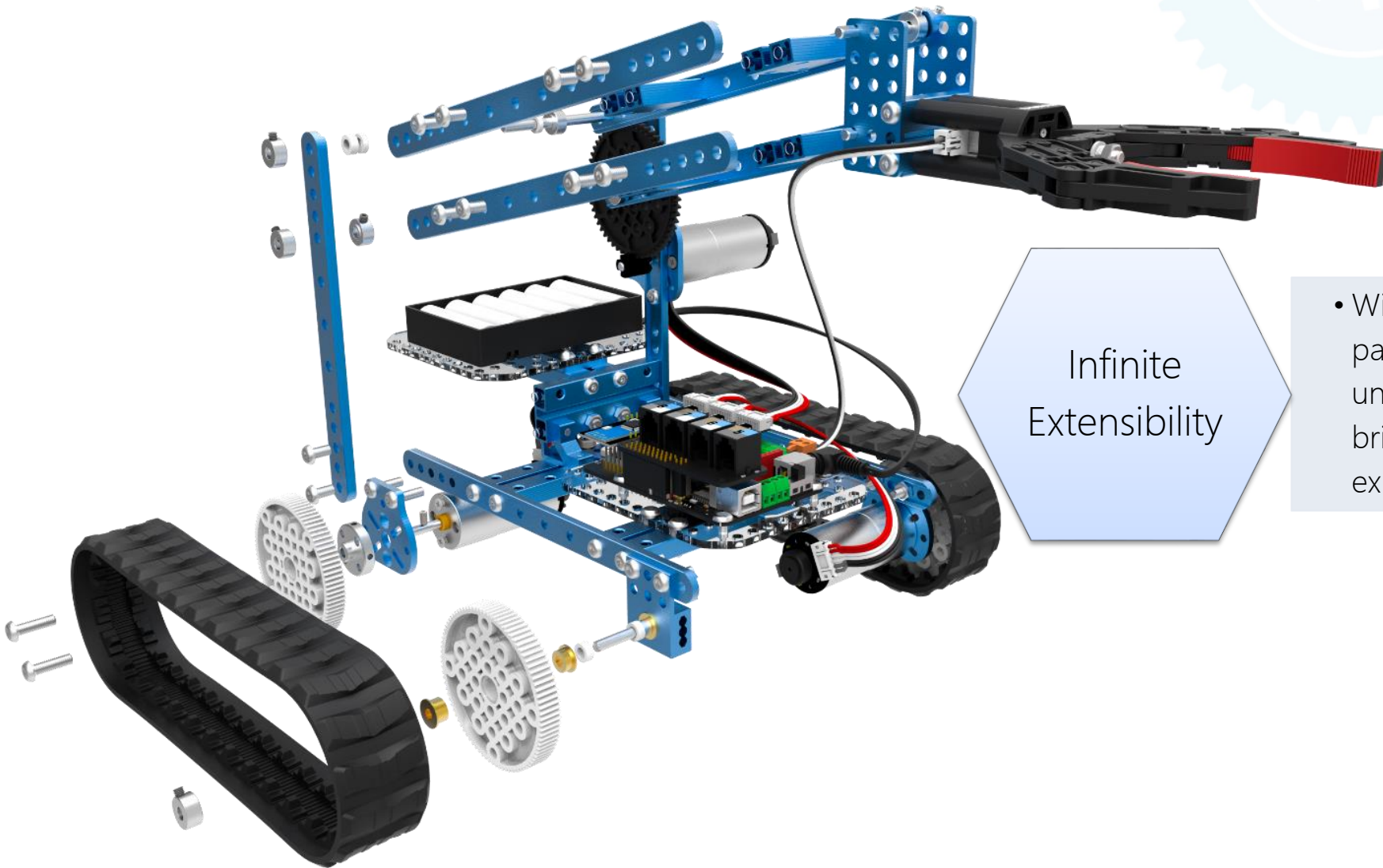
Main Feature 6



Multi-in-
One

- Various building forms will meet all your need for different application scenes. This kit includes paper building instructions for three robot forms (Visit our website for instruction of other building forms and interesting cases).

Main Feature 7



Infinite
Extensibility

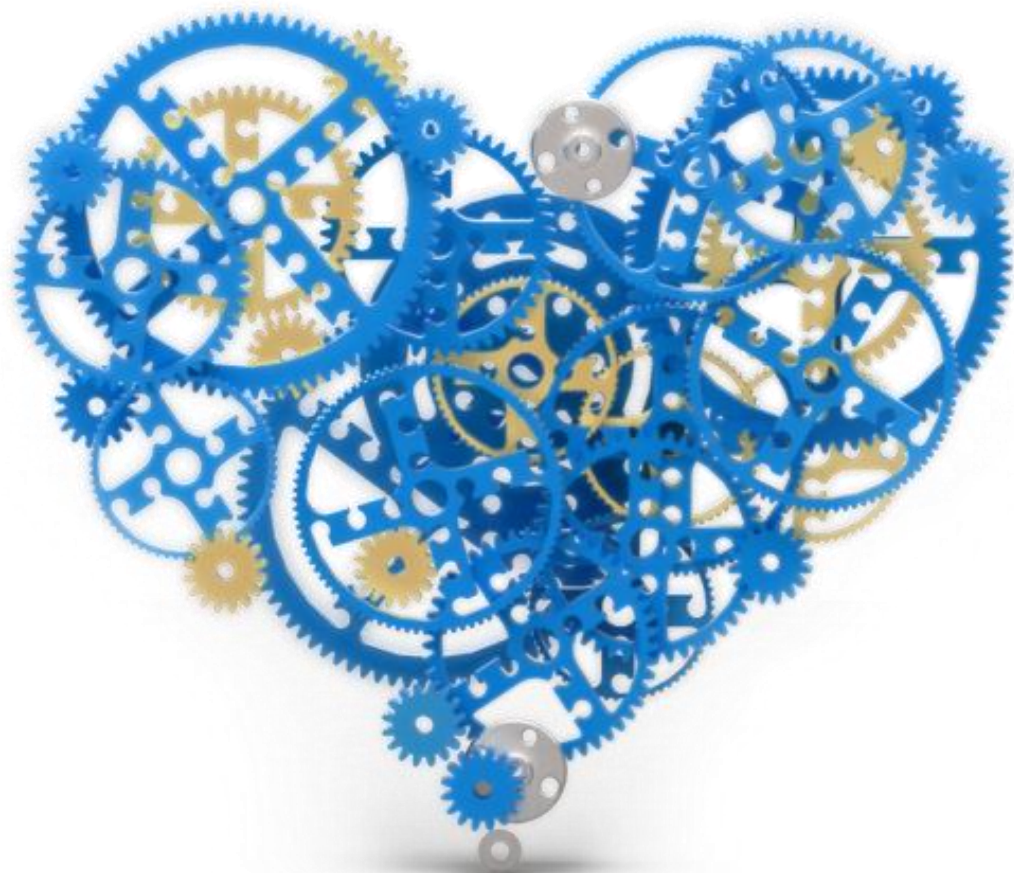
- With over 80 various types of mechanical parts and electronic modules that met universal connectivity standard, Ultimate 2.0 brings you unparalleled robot-building experience and endless creative possibilities.

Competitiveness

		Ultimate 2.0	Mindstorms	Ultimate
Part Number		>160 PCS	541 PCS	>140 PCS
Form Number		>10	19	10
Master Chip		ATMEGA2560-16AU	ARM/300Hz	Uno
Expansion Port		4× Encoder Motor Port+10× Servo interface+1× Wireless communication interface+2× High power Interface+1× Raspberry Pi serial interface	4	DC Encoder Motor Port+8× sensors expansion port
Sensor		1× Ultrasonic Sensor; 1× Line Follower; 1× Shutter; 1× 3-Axis Accelerater and Gyro Sensor	1× Color sensors; 1× Touch sensors, 1× Remote infrared beacons	1× Ultrasonic Sensor; 1× Line Follower; 1× Sound Sensor,
LED lights		/	/	LED RGB Strip-Addressable, Sealed(0.5M)
Communication		Bluetooth	Bluetooth /2.4G	Bluetooth
Software	Smartphone	Makeblock	Lego Mindstorms	makeblock
	Tablet	Makeblock HD 2.0	EV3 Programmer	makeblock
	PC	mBlock	EV3 Programmer	mBlock
Teaching material		/	/	/
Power		6 × AA batteries	AA batteries	6 × AA batteries

Specifications

Product Specification	
The main control board	MegaPi (ATMEGA2560-16AU)
Sensor	1 × Robot Gripper
	1 × Shutter
	1 × Ultrasonic Sensor
	1 × Line Follower
	1 × 3-Axis Accelerater and Gyro Sensor
Communication	Bluetooth 2.0/4.0
Battery	6-AA Battery (No include)
Software	Makeblock HD
	mBlock
Motor	2 × 25mm Encoder Motor 9V 185rpm 1 × 25mm Encoder Motor 9V 86rpm
Measure	370mm x 198mm x 267mm (Max)
Weight	>2000 g



Thank You