ArTeC® Robo 2.0



A new versatile and easy-to-use platform for building everything from simple robots to network systems!

Built-in Bluetooth & Wi-Fi

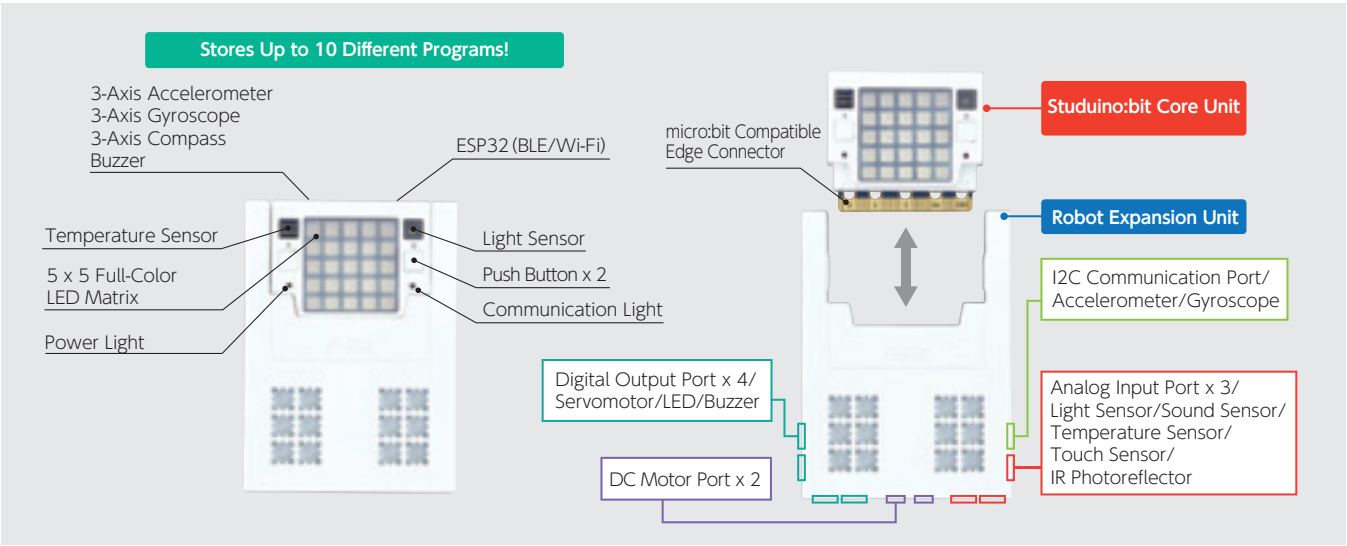
Multiple OS Support
Windows/Mac
Android/iOS/ChromeOS

No USB Device Drivers Required

★ Compatible with default drivers on Windows 10 and Mac OS. Additional driver installation will be necessary on Windows 7/8.1.

Take a Look at the ArTeC® Robo 2.0 Hardware!

Now with seven different sensors, 25 full-color LEDs, a buzzer, and Bluetooth/ Wi-Fi support all built in!



Studuino:bit Core Unit

Size	W 60 x H 60 x D 25 mm (in case)
USB Connector	microB
Wi-Fi	802.11b/g/n
Bluetooth	Classic, BLE4.2 (dual mode)
SoC	ESP32
Flash Memory	8 MB
SRAM	520 KB
PSRAM	8 MB
Clock Speed	240 MHz
Operating Voltage	3.3 V
Communication Protocol	Windows/Mac Equipped with USB Serial Converter IC ★ Device drivers support Windows 10 or later, and Mac. iPad/Android Tablets/Chromebook BLE communications
Parts	5 x 5 full-color LED matrix, buzzer, 2 x push buttons, light sensor, temperature sensor, 3-axis accelerometer, 3-axis gyroscope, 3-axis compass
Power Supply	USB, 3 x AA/R6 batteries (Use only alkaline batteries.)

Robot Expansion Unit

Size	W 80 x H 110 x D 25 mm (in case)	
Compatible Parts	Servomotor, LED, Buzzer	Max. 4 parts
	Light Sensor, IR Photoreflector, Sound Sensor, Touch Sensor, Temperature Sensor	Max. 3 parts
	Accelerometer/Gyroscope	1 part
Power Supply	USB, 3 x AA/R6 batteries (Use only alkaline batteries.)	

System Requirements

● Software Compatibility
Windows (7/8.1/10/11)/Mac OS X 10.6 or later/iOS11 or later/Android5.0 or later/Chrome OS/Raspberry Pi OS

● System Requirements
Windows: CPU: Core2 Duo (E6700) or higher (or equivalent)
Memory: 2GB or more, USB 2.0 port
・Mac: Minimum required by OS.
・iOS: iPad with minimum required by OS. (Not supported on iPhone or iPadmini)
・Android: Minimum required by initial installation of the OS, screen size of 10 in. or more. (*Not guaranteed to work with all Android devices.)
・Chromebook: Model released 2016 or later, support for Android applications and Bluetooth 4.0.

Start Programming Right Away, No Assembly Required!

The Studuino:bit Core Unit comes with built-in sensors, full-color LEDs, and a buzzer, all ready to program without any need to spend precious class time on settings or assembly!
You can also add blocks and extra parts to build robots!





Build a model traffic light with just the Core Unit's LED display, buzzer, and sensors!





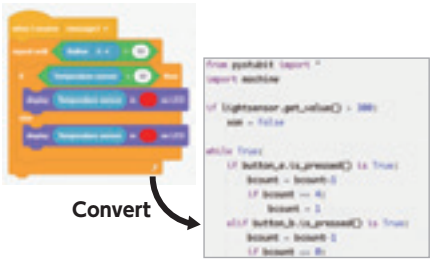
Add blocks and robot parts to make more robots!

Visual Programming Software Based on Scratch 3.0

Bluetooth communications allow you to program with iOS, Android, and Chrome OS in addition to Windows and Mac!

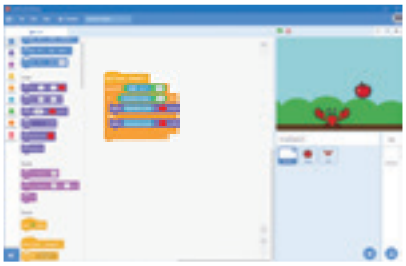
★ Bluetooth not supported on the Windows and Mac versions of the software.
★ A customized version of MIT MediaLab's own Scratch crafted specifically for ArtecRobo 2.0. With a wealth of blocks representing actual programming syntax, using this programming environment is the next best thing to actually working in C.

Convert to Python



The programs you make can be converted into Python programming language!

Access Digital Content



Make robots and systems that use digital contents and hardware together, like a robot that moves along with on-screen animations and sound, or game characters that move in response to a sensor's readings.

Tutorials Included



Learn all the basics you need to start programming your robots through the on-screen software tutorial!

★ Software is subject to change at any time.

Wi-Fi Compatibility Allows All-New Experiments!

Now you can construct network systems using Wi-Fi communications between devices!

Interconnecting Devices

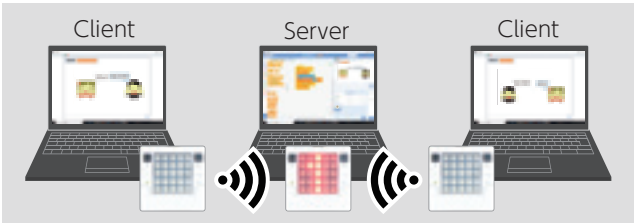




ArtecRobo 2.0 lets you build complex systems that use multiple devices at once by connecting them with wireless communications. Don't stop at making one traffic signal, make a whole network of coordinated signals and cars that stop for red lights automatically!

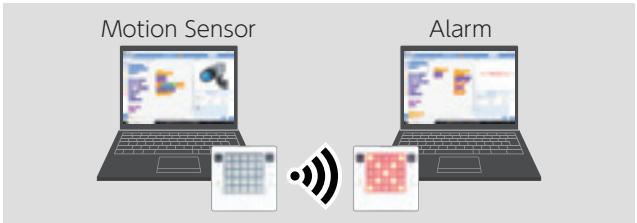
Building a Multi-Device System

Chat Systems



Learn About
Using inter-device communications to make programs that can send messages and connect multiple computers.

Security Systems



Learn About
Using messaging systems to make an alarm sound when your sensors detect an intruder, and learn about the Internet of Things!

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ArtecRobo 2.0 Game Maker

- Dimensions: W 340 x H 215 x D 140 mm (13.4 x 8.5 x 5.5")
- Materials: ABS, FR-4
- Weight: 1,440 g



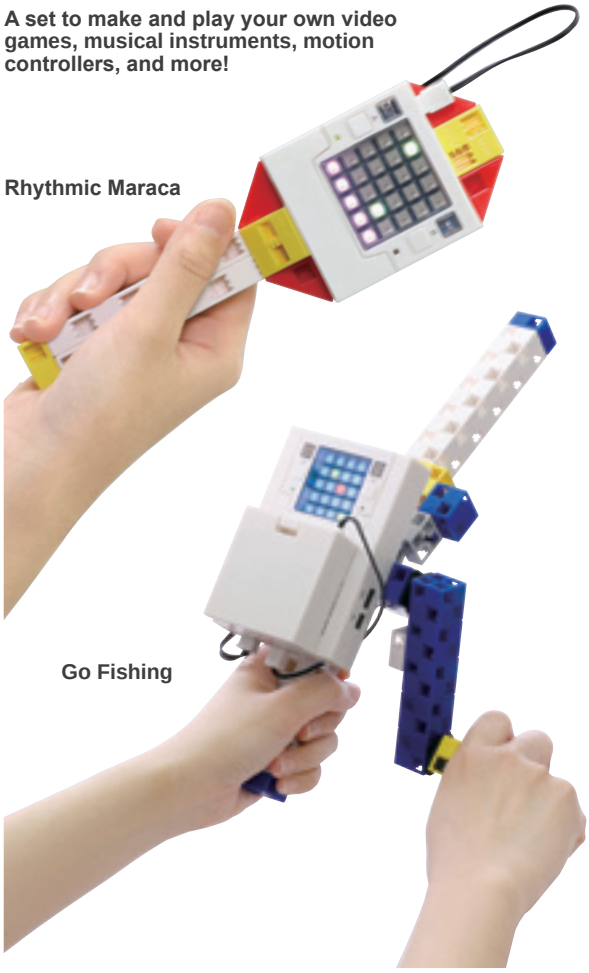
Requires battery (1.5V AA/LR6) ×3 (sold separately)



Features

A set to make and play your own video games, musical instruments, motion controllers, and more!

Rhythmic Maraca



Go Fishing

A new generation of creative, smart toys!

An endless amount of fun in one box!



Driving Game





Rifle Game