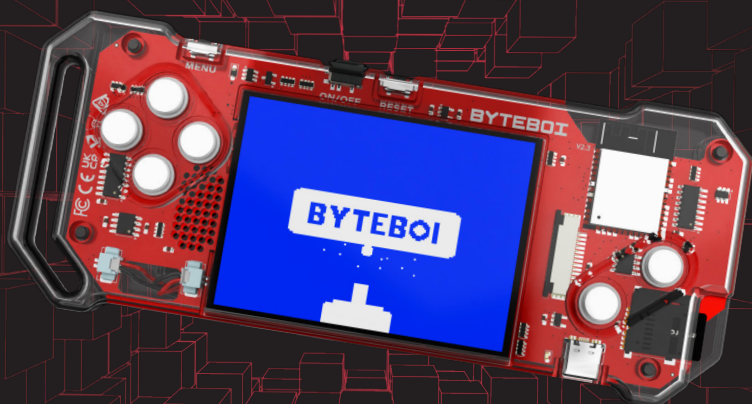


CREATOR'S BOOKLET



◆ Meet ByteBoi

ByteBoi is a DIY retro game console that will teach you about electronics and coding in a fun and exciting way.

◆ How does it work?



Assemble your own
game console



Play retro games



Code your very
own games

◆ What is CircuitMess?

CircuitMess started in 2016 when Albert (our CEO) was 17.

Albert loved tinkering with electronics, and one of his first projects was a DIY game console.

People liked the idea, so he launched it on **Kickstarter**, which raised \$100,745!

After that, CircuitMess was born. We are a small and fast-growing team of tech lovers who wish to share our love of creating new technology with the rest of the world!



Albert

◆ The mission



Everybody knows how important technology is, but less than 1% of the population knows **HOW TO MAKE** new technology.



We're here to change that! With our kits, we want to inspire people to be **CREATORS** instead of just consumers.

◆ What will you learn?



How to assemble
your very own
gaming console



How game
consoles work



CircuitBlocks
& C++ coding





The basics of
game graphics



How to code a
microcomputer



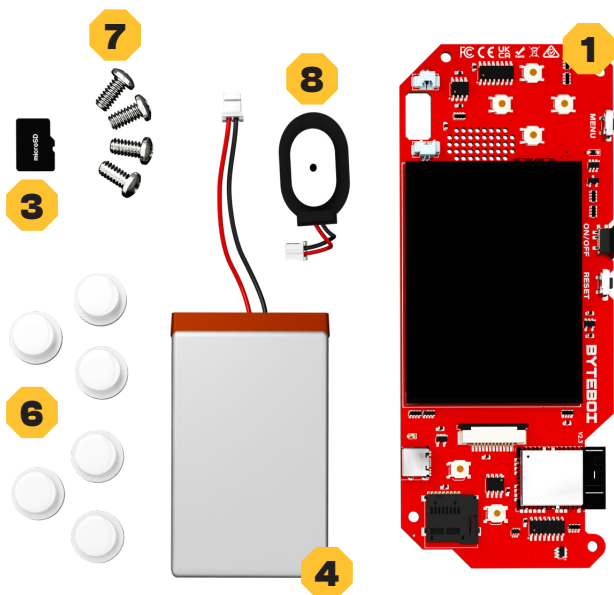
How to make
your own
video games



◆ What's inside the box?

In the ByteBoi kit, you will get all the components & tools necessary to make your very own game console!

-   Main circuit board
-   Acrylic casing
-   Micro SD card
-   Li-Po battery
-   Screwdriver
-   Button caps
-   Screws
-   Speaker



◆ A brief history of handheld game consoles



1976

American toy company **Mattel** released **AutoRace** - the first digital handheld electronic game

1978

The first commercially successful handheld console was **Merlin**, which sold more than **5 million units**

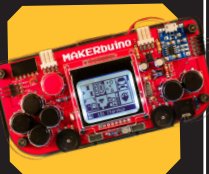


1989

Nintendo releases the **Game Boy**, and everybody loses their minds

2017

CircuitMess launches its first DIY handheld game console **MAKERbuino**.
A new era of history begins!

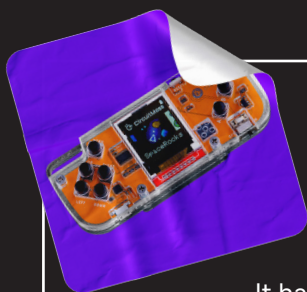


◆ How ByteBoi came to be

2017

MAKERbuino was launched and sold to over **12,000 customers** all around the world!

It had a black and white screen, 2kb of RAM, 8-bit CPU, and lots of fun games to play.



2020

Nibble was a new and improved version of **MAKERbuino**.

It had a color display, was easier to assemble, and came with all the necessary tools included in the box.

2021

ByteBoi is our most complex game console so far.

With a dual-core CPU, WiFi, and Bluetooth included, it will satisfy both existing and new makers.



◆ Your ByteBoi can be coded in CircuitBlocks

CircuitBlocks is a graphical coding-learning app with a Scratch-like interface where you can connect logic blocks to generate code.

Head to: circuitmess.com/circuitblocks



Safety first

Before you start with the assembly, pay attention to the following safety measures:



1

Using products provided in this electronic kit is not recommended for children under the age of 7!



2

Keep ByteBoi away from young children! This product contains small components that are dangerous to children under the age of 3.



3

If you are a minor, assemble ByteBoi strictly with the help of an adult.

CircuitMess ByteBoi is a fun introduction to the world of real electronics, but **it is not a toy for toddlers!**

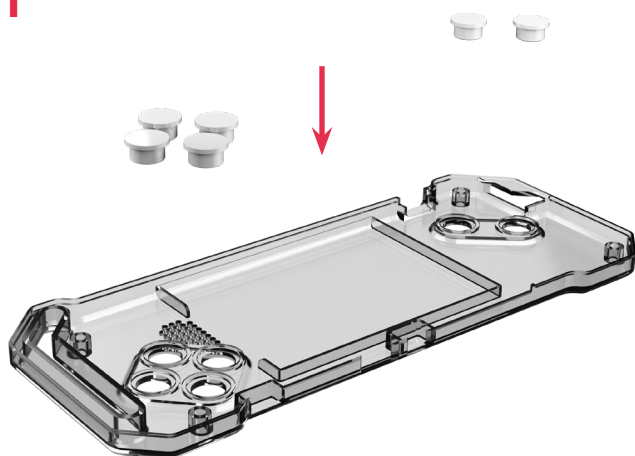
Strictly follow all the instructions you received in this kit and those found on our online pages so that no one gets hurt.

If you have never used a screwdriver before, **carefully follow the assembly instructions** on our website and, if necessary, ask someone more experienced or older to help you.

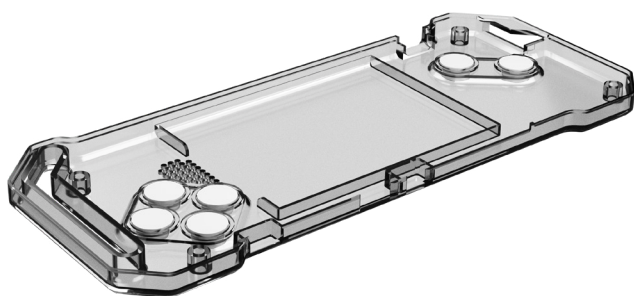
If you are having problems with your kit, contact our customer support via email at contact@circuitmess.com

◆ Build guide

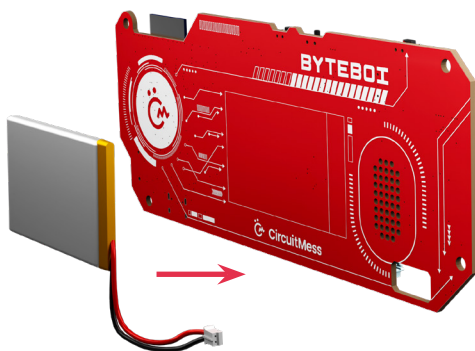
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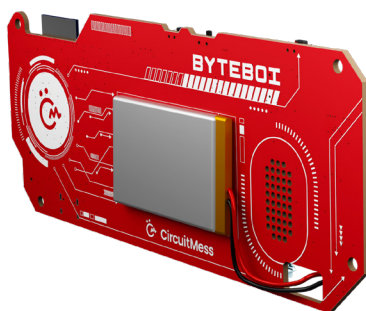
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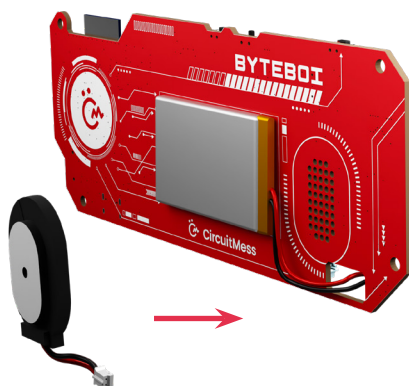
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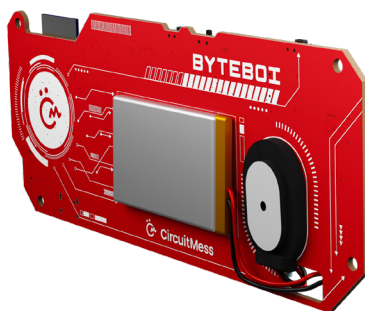
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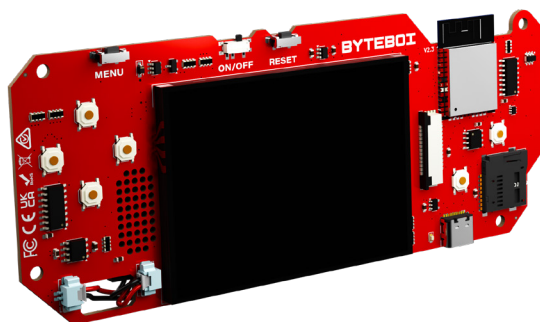
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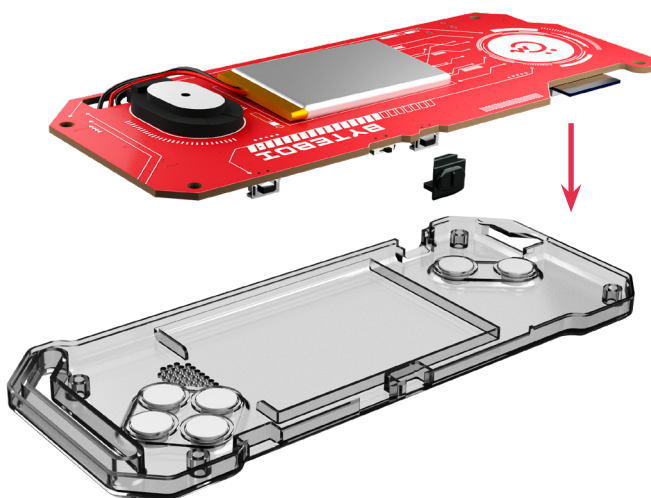
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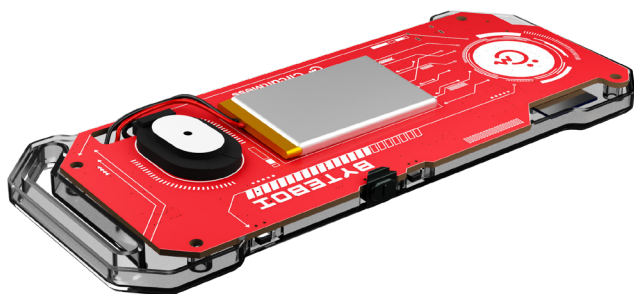
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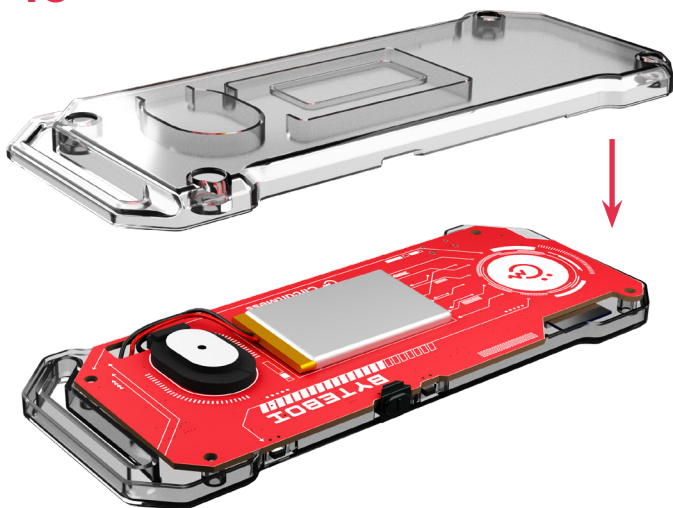
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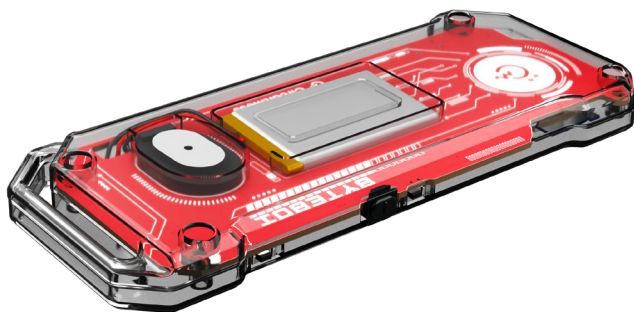
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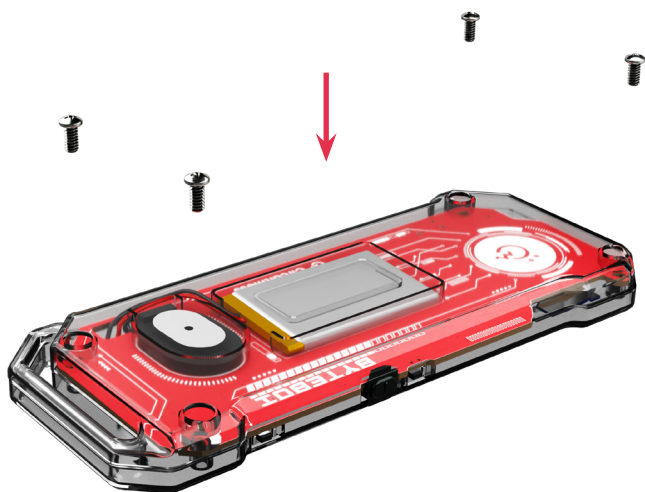
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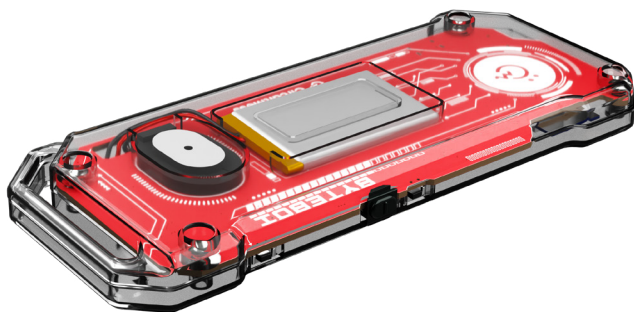
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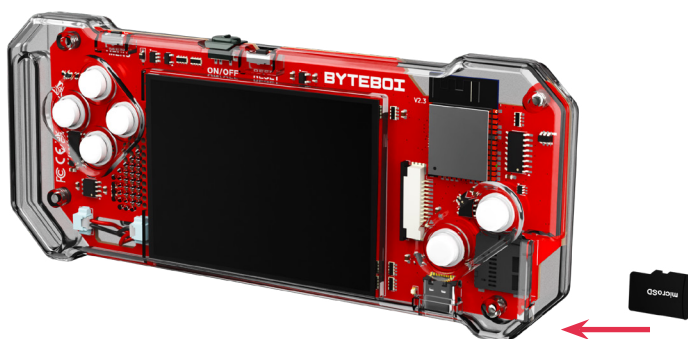
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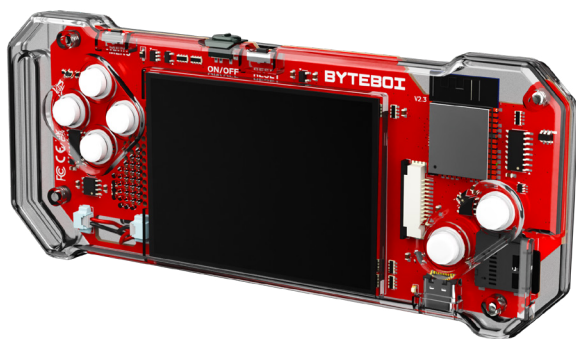
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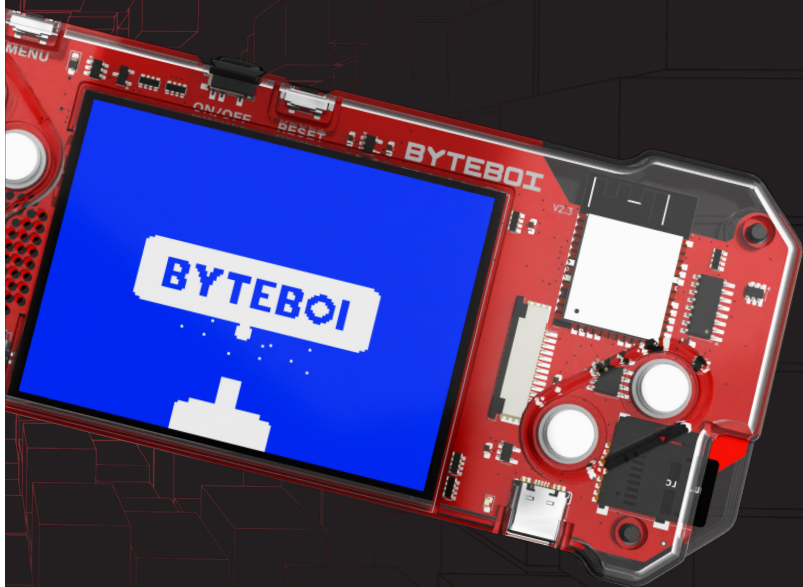


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**Scan the QR code to learn
how to use your device**





Questions and answers

1. Can I program ByteBoi using languages other than CircuitBlocks?

Yes! While CircuitBlocks provides a beginner-friendly, block-based coding environment, more advanced users can program ByteBoi using Python or C++ (Arduino). This flexibility allows users to choose the programming language that best suits their skill level and project requirements.

2. Are there pre-loaded games on ByteBoi?

Yes, ByteBoi comes with several pre-installed games, including classics like Snake and Pong-inspired titles. These games provide immediate fun and also serve as inspiration for creating your own games.

3. Can ByteBoi be used as a controller for other devices?

Yes! ByteBoi can function as a controller for CircuitMess's Wheelson robot car, allowing you to drive and program custom movements, enhancing interactive experiences.

4. How do I restore ByteBoi's firmware?

Head to code.circuitmess.com, select the "Restore firmware" option, and connect ByteBoi with the power ON. Be sure to select the correct COM port to complete the process successfully.





Thank you for purchasing CircuitMess ByteBoi Educational kit

For more information and detailed instructions on assembling and using your device, visit our official website: circuitmess.com/resources/guides.

Important safety information for CircuitMess ByteBoi

Read all safety information before using the device.

WARNING: Failure to follow these safety instructions could result in fire, electric shock, injury, and damage to your device or other objects. Read all safety information before assembling and using this device.

This product is a do-it-yourself device, and for it to work properly, you must assemble it according to the instructions you'll find on our website.

If you are a minor, assemble it only under an adult's supervision to avoid potential risks.

Improper handling can result in burns, injuries, and property damage, so handle the screwdriver or any other supplied tools and electronic components that are an integral part of this do-it-yourself kit very carefully.

Handling a screwdriver is not recommended for children under the age of 7. For children under the age of 18, it is recommended only under the supervision of a more experienced adult.

CircuitMess ByteBoi kit contains sensitive electronic components. CircuitMess ByteBoi or its components may be damaged if dropped, burned, punctured, crushed, or in contact with liquid.

Use only authorized accessories compatible with your device and/or the supplied tools.

The device's operating temperature ranges from 0 °C ~ 40 °C. Using this device in conditions outside this temperature range may damage the device.

Please turn off CircuitMess ByteBoi after using it and store it in a safe and dry location.

The included battery must be recycled appropriately and/or disposed of separately from household waste. Improper handling of batteries can cause a fire or explosion. Dispose of or recycle your device, battery, and accessories according to local regulations.

• The included battery is rechargeable.

- Do not short-circuit the battery
- Improper use of the battery can cause overheating, burns, or other injuries.
- Do not leave the battery directly exposed to intense sunlight.
- Do not use the device or the battery in high-temperature conditions. Overheating may cause an explosion.
- Do not disassemble or damage the battery to avoid battery leakage, overheating, or explosion.
- In the case of deformation, stop using the battery immediately and dispose of it properly.

If you are not sure whether your device or the included battery is safe to use, turn off the device, put it in a safe place, and contact our customer support via email at contact@circuitmess.com.

Keep the device dry.

Do not attempt to repair the device by yourself.

If any part of the device does not work correctly, contact our customer support (contact@circuitmess.com) or take your device to a certified repair shop.

Connect other devices according to their operating instructions. Do not connect incompatible devices to this device.

Precautions

During prolonged use, ByteBoi may rarely overheat.

Keep CircuitMess ByteBoi in a ventilated room during the use and the assembly. Pay special attention to this if you suffer from a physical condition that affects your ability to detect heat on your body.

Assembling or using CircuitMess ByteBoi in an area with a potentially explosive atmosphere, such as areas where the air contains high levels of flammable chemicals, vapors, or particles (such as dust or metal powder), can be dangerous.

Exposure of CircuitMess ByteBoi to environments with high concentrations of industrial chemicals, including liquefied gases that evaporate, such as helium, can damage the functionality of CircuitMess ByteBoi.

Do not use CircuitMess ByteBoi in hospital operating rooms or intensive care units.

Contact your doctor or our customer support (contact@circuitemess.com) to determine if the device's operation may compromise the work of medical devices.

To avoid possible interference with a pacemaker, maintain a minimum distance of 15 cm between the CircuitMess ByteBoi and the pacemaker.

To achieve this, do not carry the included device in your pockets.

Do not use CircuitMess ByteBoi near hearing aids or similar medical aids and equipment to avoid interference with medical equipment.

Check aircraft safety regulations and turn off CircuitMess ByteBoi on the aircraft if necessary.

Do not use CircuitMess ByteBoi while driving.

To avoid lightning strikes, do not use CircuitMess ByteBoi outdoor during storms.

Do not use CircuitMess ByteBoi in high humidity environments such as bathrooms. Failure to do so may result in electric shock, injury, fire, and damage to the product, electronic components, power adapter, or other parts of this electronic educational kit.

Follow all the rules that limit the use of portable electronic devices in some situations and conditions.

The individual parts and components in the CircuitMess ByteBoi can pose a choking risk to children under 36 months. Keep all components, tools, and parts of this product away from small children before and after assembling the device.

Additional Recommendations and Precautions for Parents, Guardians, and Teachers Buying CircuitMess ByteBoi for Children

1. Carefully follow the instructions for adequately assembling CircuitMess ByteBoi. Keep these and all other instructions that came with the products in a safe place.
2. Supervise your child while assembling and using the CircuitMess ByteBoi. Your responsibility is to ensure that the child uses the CircuitMess ByteBoi correctly and that the CircuitMess ByteBoi is suitable for the child's age and abilities.
3. Check from time to time if CircuitMess ByteBoi is damaged or worn out in any way to prevent possible injuries and risks for the child's health and safety. If CircuitMess ByteBoi is damaged, remove it immediately.
4. Remove any unnecessary packaging, but keep the instructions. Take care that children do not play with any plastic packaging as there are suffocation risks.
5. Teach children to always store CircuitMess ByteBoi and other parts of the CircuitMess ByteBoi educational kit appropriately to prevent accidents. Do not leave CircuitMess ByteBoi on stairs or on

the floor in your home or classroom where someone can step on them.

6. Always report a product security issue to our customer support (contact@circuitmess.com)

Declaration of Conformity

CircuitMess d.o.o. declares that this DIY educational kit CircuitMess ByteBoi model complies with the essential requirements and all other relevant provisions of Directive 2014/53 / EU. The full text of the EU declaration of conformity is available at the following Internet address: circuitmess.com/certification.

Legal Information

This device can be used in all EU Member States. Check all the national and local regulations about using the device. This device may be restricted for use, depending on local laws.

Manufacturer:

CircuitMess, Inc.

651 N Broad St, Suite

206, Middletown, 19709

New Castle,

Delaware

Proper disposal of this product

WEEE markings on the product indicate that this product may not be disposed of with the rest of your household waste in the EU. To prevent possible damage to the environment or human health from uncontrolled waste disposal, recycle the product responsibly. Recycling promotes the sustainable reuse of resources. For more information on the disposal of electrical and electronic equipment, don't hesitate to contact your local household waste disposal service, the store where you purchased the kit, or our customer support (contact@circuitmess.com).

IMPORTANT! Warranty conditions:

The warranty is valid only if the original invoice is attached to the product as proof of purchase during the complaint. If the customer sends the product for repair for any reason not covered by the warranty, the customer may be charged for inspection and testing, and delivery costs.

WARRANTY STATEMENT

CircuitMess d.o.o., with its registered office in New Castle, Delaware, 651 N Broad St, Suite, 206, Middletown, 19709, guarantees the quality and proper functionality of the components that come in the CircuitMess ByteBoi DIY educational kit for a duration of 24 months from the date of purchase.

If the assembled device does not work correctly due to defects in supplied parts or electronic components supplied in the CircuitMess ByteBoi DIY educational kit, CircuitMess d.o.o. will repair the product or send an equivalent replacement product at their own expense.

In case you are experiencing assembly or functionality difficulties with your device, please contact us via email (contact@circuitmess.com).

Please include a detailed description of the problem.

If you are sending the product to a repair shop, it is recommended to deliver the product in the original packaging to protect it from potential damage during transportation.

WARRANTY CONDITIONS

- The warranty period begins on the day of sale indicated on the invoice.
- The warranty is valid upon presentation of the original invoice.
- If the defect is not remedied within a reasonable period after receiving the product for repair, CircuitMess d.o.o. will replace it with a new product.

The repair shop does not take responsibility for storing and/

or losing personal data while repairing the device.

WARRANTY DOES NOT COVER

- Upgrades, alterations, modifications to hardware and/or software without the written consent of CircuitMess d.o.o.
- Malfunctions due to improper handling, faults due to wear of the device and/or its parts (if you need help with assembly or if you have difficulty using the device after assembling it, please contact us at contact@circuitmess.com).
- Defects caused by external particles (including, but not limited to: staples, waste, dust, and food) and external factors (including, but not limited to: moisture, water, and thermal damage).
- Mechanical damage and/or failures caused by mechanical damage
- Use of the product for a purpose for which it is not intended
- Requirements for the appearance, technical functionalities, and/or capabilities of the product outside the manufacturer's specifications and/or standards.
- Damages to personal data, other tangible and/or intangible assets of the buyer and/or third parties, indirect damages, lost profits caused by the use of the product, and/or its failure.
- Repairs in an unauthorized repair shop and/or installation of non-original spare parts.
- Damage caused during transportation caused by improper packaging.

The rights under this warranty are the exclusive and final rights of the customer unless otherwise provided by national law.

CircuitMess d.o.o. as the warranty provider and/or its authorized partners will not be liable for any defect, damage, loss, direct or indirect cost, or connection with

the delivered products outside the warranty conditions written here.

This warranty does not affect other rights of the customer belonging to him on other legal grounds.

FCC STATEMENT:

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for Class B digital devices pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference to radio communications. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication.

However, there is no guarantee that interference will not occur in a particular installation. If this toy does cause interference to radio or television reception, you can check this by turning the toy off and on while listening for the interference), one or more of the following measures may be useful. • Reorient or relocate the receiving antenna • Increase the separation between the toy and the radio or the TV • Consult the dealer or an experienced TV-radio technician for help.

NOTE: Changes, adjustments or modifications to this unit, including but not limited to the replacement of any transmitter component (crystal, semiconductor, etc), could result in a violation of FCC rules under part 15 and/or 95 and must be expressly approved by CircuitMess d.o.o. or they could void the user's authority to operate the equipment.

**Photosensitivity /
epilepsy warning:**

A very small percentage of individuals may experience epileptic seizures when exposed to certain light patterns or flashing lights. Exposure to certain patterns may induce an epileptic seizure in these individuals. Certain conditions may induce previously undetected epileptic symptoms even in persons who have no history of prior seizures or epilepsy.

If you, or anyone in your family, have an epileptic condition, consult your physician before playing. If you experience any of the following symptoms while using the product - dizziness, altered vision, eye or muscle twitches, loss of awareness, disorientation, any involuntary movement, or convulsions - immediately discontinue use and consult your physician before resuming play.

WARNING:

This toy produces flashes that may trigger epilepsy in sensitised individuals.

 **WARNING:**
CHOKING HAZARD -
Small parts. Not for
children under 3 years.

WARRANTY SHEET

Product name:	CircuitMess ByteBoi do-it-yourself educational kit
Warranty on components and parts contained in this set is:	24 months
Date of purchase:	
Seller and point of sale stamp:	
Invoice number:	

Information on interventions during warranty period is entered by a repair shop technician at an authorized repair shop.

Received on	Issued on	Fault description	Warranty extension

 **CircuitMess**



WARNING:
Not for children
under 3 years.

Manufacturer:

CircuitMess, Inc.
651 N Broad St, Suite
206, Middletown, 19709
New Castle,
Delaware
Country of origin: China
www.circuitmess.com

Authorized repair shop:

CircuitMess, Inc.
651 N Broad St, Suite
206, Middletown, 19709
New Castle,
Delaware
Country of origin: China
www.circuitmess.com



CircuitMess