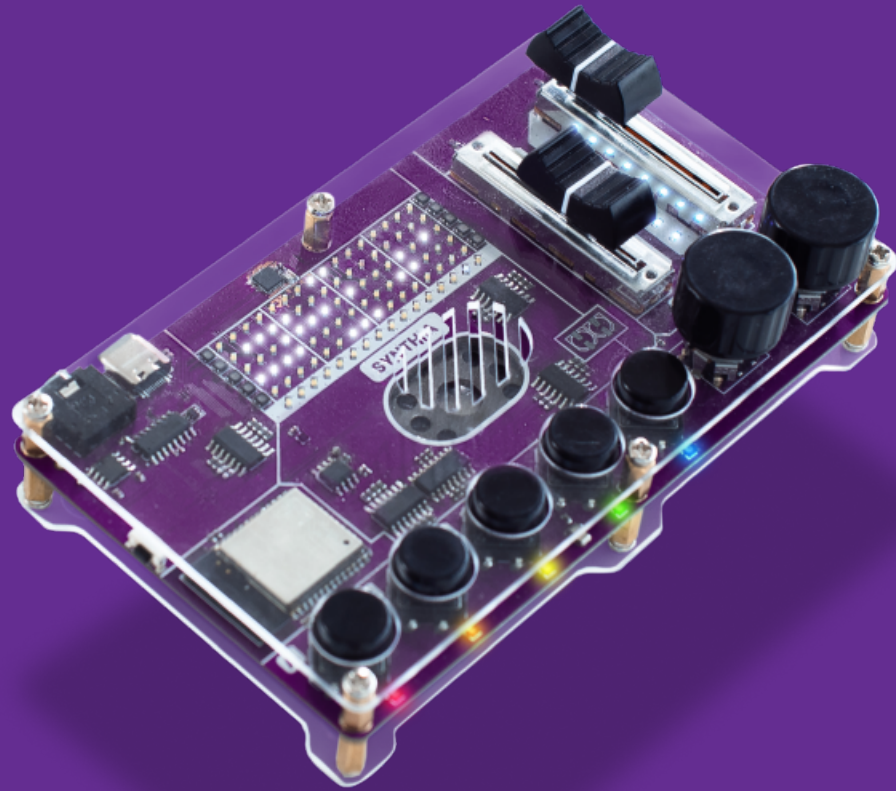# Actual STEM, serious fun

CircuitMess

SYNTHIA

Synthia

Build & code your own synth

MSRP

119,99 USD

Synthia combines functions of a sampler, drum machine, sequencer, & synthesizer and teaches about digital sound production.

HOW DOES IT WORK?

1   **Assemble Synthia with the help of our fun and clear instructions**

2   **Learn about components needed for digital sound production**

3   **Have fun playing the pre-loaded music and making your own beats**

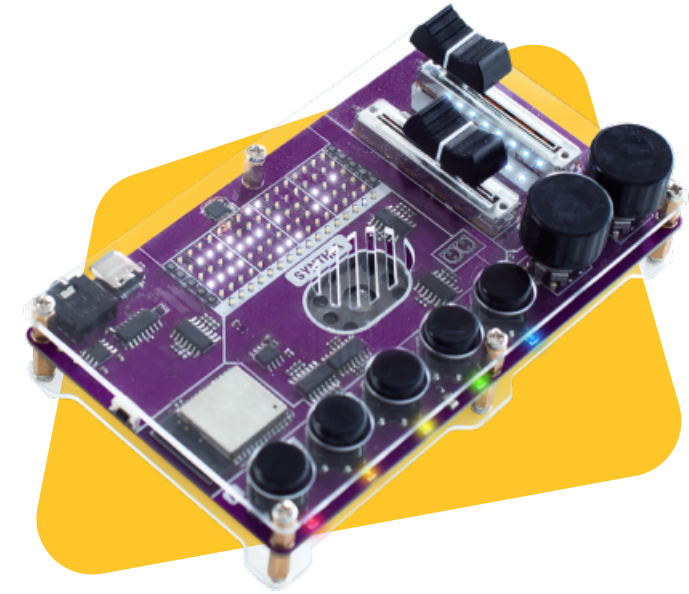**4**   **Code your own custom apps**

✗ What educational toys should **NOT** do:

Lack actual useful educational content

Be a label for cheap regular toys

Enforce gender stereotypes

✓ What educational toys should do:

Teach you actual science

Provide hours of building and infinite enjoyment

Provide real-world application

You'll learn about hardware

Learn how to **solder** and assemble your very own digital musical sampler

Learn about **soundwaves** and how to synchrosize them with electronic circuitry

Learn about the electrical **components** needed for digital sound production

~4 hours build time

Ages 11+

You'll learn about software

Learn about Digital-to-Analog signal conversion

Learn about programming and how to **code** custom light shows for the built-in LED grid
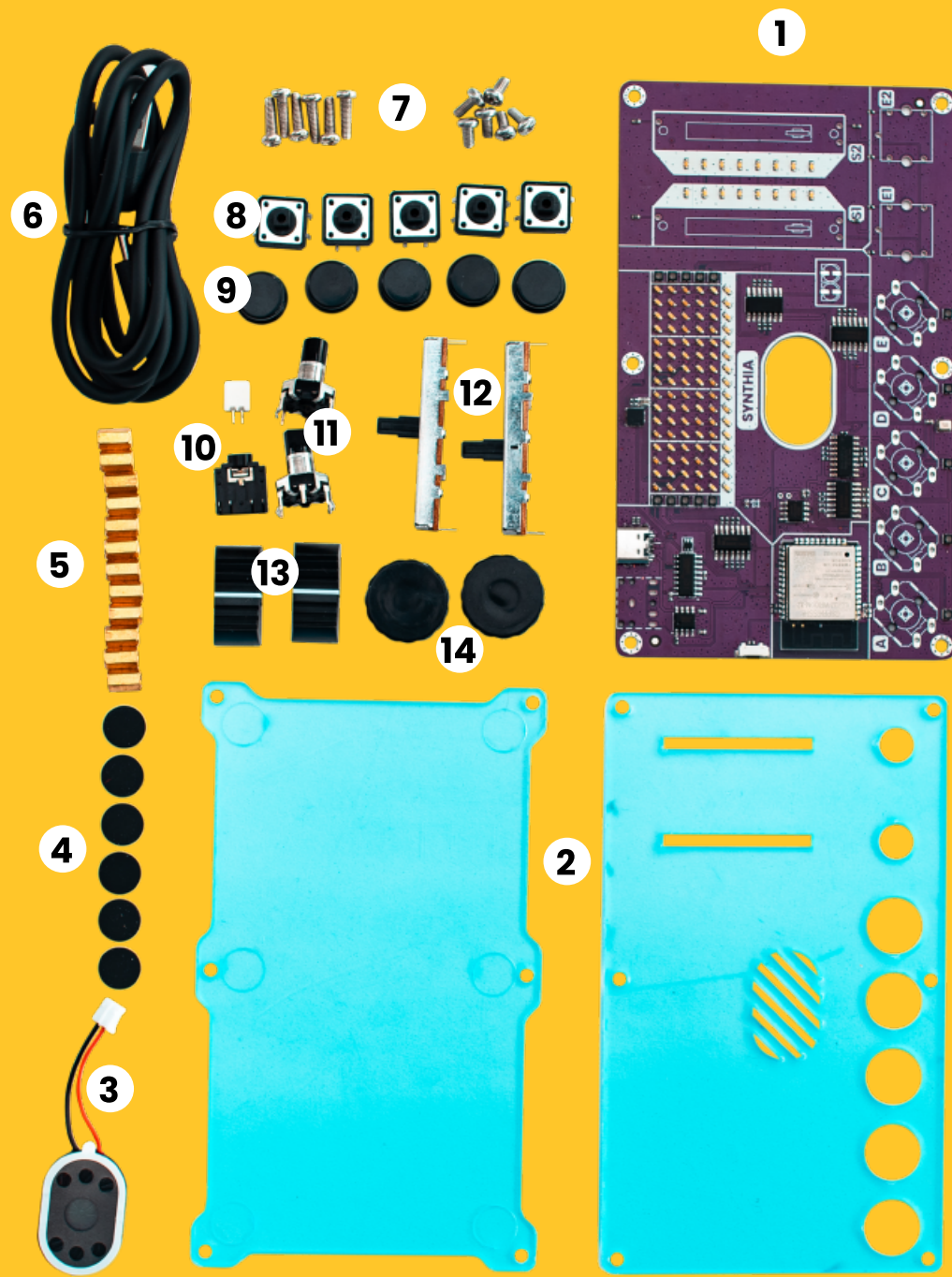
Learn how to edit **sound recordings**

10 hours of learning

Infinite fun

What's inside the box?

1	Main circuit board	**8**	Pushbuttons
2	Plastic casings	**9**	Button caps
3	Speaker	**10**	Headphone jack
4	Rubber anti-slip pads	**11**	Rotary encoders
5	Brass standoffs	**12**	Slider potentiometers
6	USB-C cable	**13**	Plastic caps for sliders
7	Bolts	**14**	Plastic knobs

Things you can do with your Synthia as soon as you assemble it:

- Create your own funky beats with the preloaded music samples
- Record your voice with the built-in microphone
- Add various equalizers to the beats that you've created
- Design a custom light show for the 121 onboard LEDs
- Code new functions for the implemented microcontroller

Getting started with coding has never been easier

You can code Synthia in CircuitBlocks - our custom-made code editor similar to Scratch that makes it easy for beginners to get into physical computing.

Circuit **BLOCKS**

Logic blocks

C++ coding

Get instructions from our custom-made curriculum

15+ hours of content

Teacher and student friendly

Structured lessons

3 main topics

Get to know electronics through hands-on activities. Assemble the kit and create your own apps and games.

Assembly

Electronics

Programming

People all around the world love it!

CircuitMess
Reviews 127 • Excellent
★★★★★ 4.8 ⓘ

★★★★★ **Peter Mansvelder, United Kingdom**

I use these kits for my daughter, she is so fond of them she wished her school used them... It is a great way to get her acquainted with technology, stimulate her creativity, and share some of my passion for electronics.

★★★★★ **Matt, Germany**

Great products with a fantastic message. Fast delivery. A joy to use and play with for kids and adults as well.

★★★★★ **Foulonc, Belgium**

Thank you for an awesome product yet again! Quality of components is again top notch, manual is clear. Had great fun building this one.

As seen in media

M **Mashable**
"It is surprisingly cool looking and unmistakably retro."

F **Forbes**
"What sells MAKERbuino is the sense of satisfaction, accomplishment, and ownership that comes with assembling your own game console from scratch."

TC **Tech Crunch**
"It's a fun project and maybe you could make it your weird home messaging machine. I don't know. Be creative."

$400k+ raised on Kickstarter

$408,749
raised out of a $15,000 goal

2,001
backers

orders@circuitmess.com

CircuitMess

SYNTHIA