MikroElektronika
DEVELOPMENT TOOLS | COMPILERS | BOOKS

CLICKER 2 CEC1302

All the inventions waiting to happen...

clicker 2 is a battery-powered click™ board two-seater. Inventing and putting together fully-functional standalone gadgets is now just 1% perspiration, and 99% inspiration!

Touchpad click

FAN click

Thousands of possibilities

19110
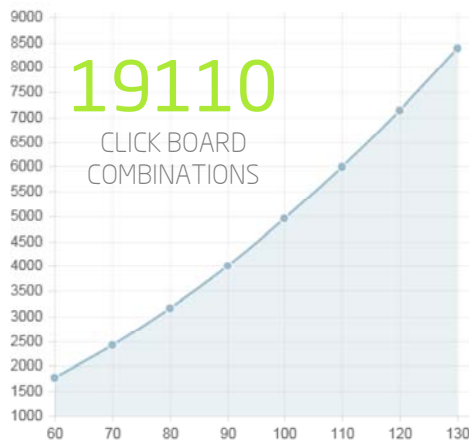CLICK BOARD COMBINATIONS

With two mikroBUS™ sockets on clicker 2, you can take advantage of the huge potential of click™ boards, the constantly expanding range of over 196 add-on boards. Blend different functionalities together and come up with new and original inventions. That's just two clicks and your project is half-way done. Go ahead and play with a few ideas right away:
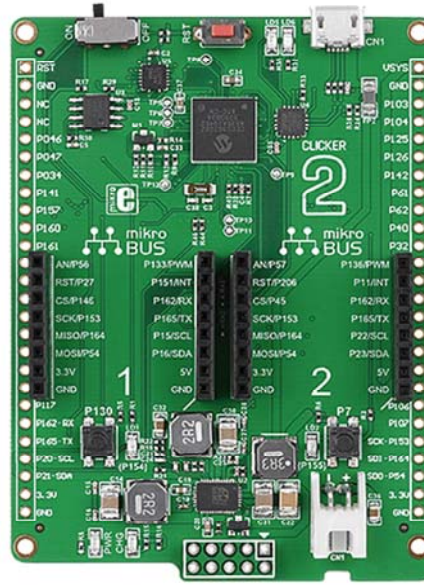
Security ensured

This clicker 2 is powered by CEC1302, a 32-bit ARM®-Cortex® MCU from Microchip that integrates a cryptographic engine that provides high level security features.
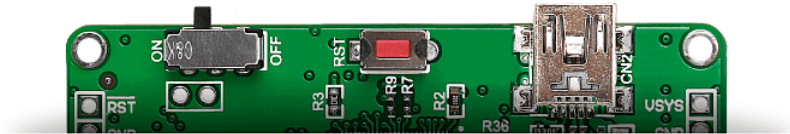
- Authentication with public key algorithms (RSA-2048)
- Integrity with Secure Hash Algorithms (SHA-1, SHA-256)
- Privacy with symmetric encryption (AES)
- Entropy with true Random Number Generator

CEC1302 has 128 KB SRAM, 32 KB boot ROM, and runs at 48MHz.
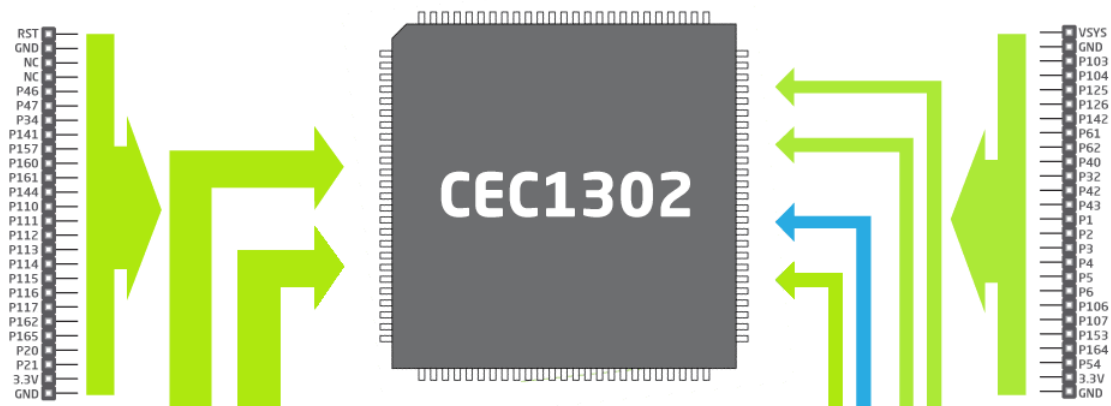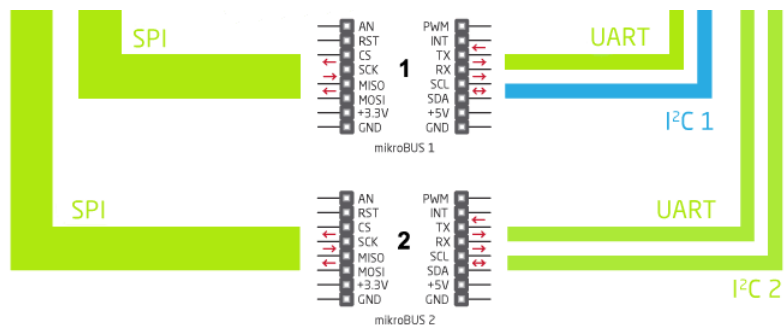
Powering Your Inventions

Focus on your main idea because clicker 2 will take care of the details for you: your prototype already has a power management system in place. The onboard LTC®3586-1 IC will provide 3.3V or 5V to the clicks. It turns the USB port into a battery charger. For convenience, clicker 2 for CEC1302 features a reset button and an ON/OFF switch (you can also connect an external ON/OFF switch).

Image shows: Li-Polymer Battery 2000mAh (sold separtely)
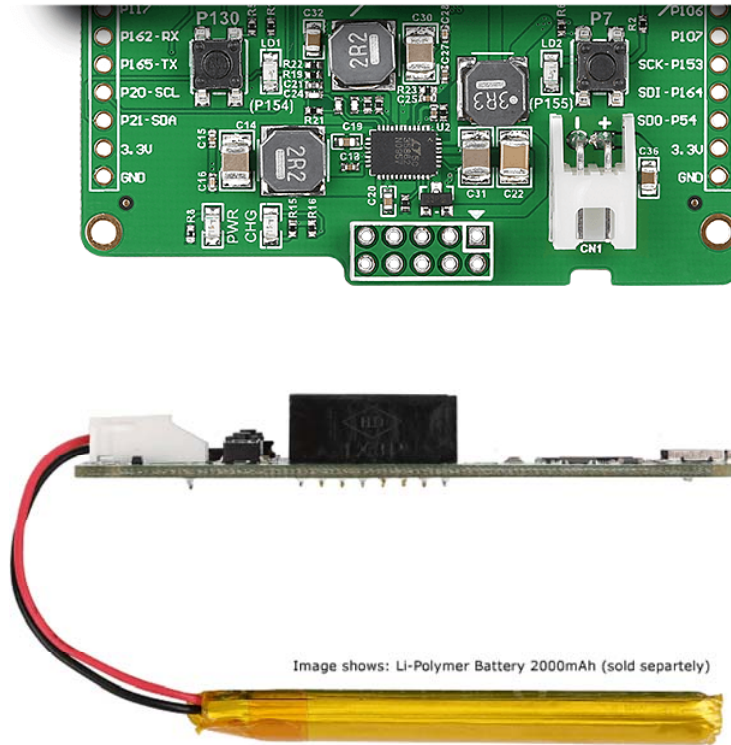
Expanding Your Ideas
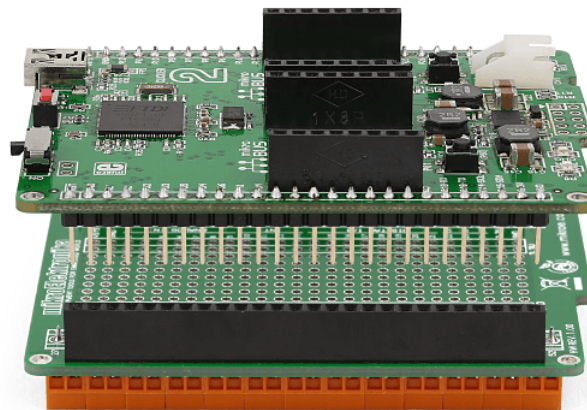
No idea is too big for clicker 2. Let your train of thought lead you anywhere. Consider all options, explore all directions. More click boards? Additional electronics? Done and done. clicker 2 has the same pocket-size form factor and the same pair of 1x26 connection pads as mikromedia boards. This makes it compatible with mikromedia shields letting you expand your device any way you want.
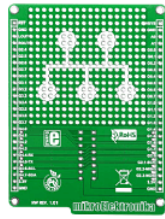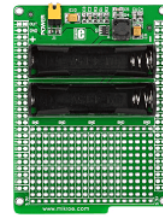
MIKROE-1154
mikroBUS shield
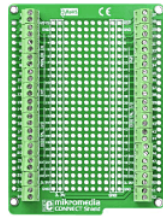
MIKROE-938
Connect shield
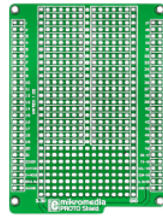
MIKROE-767
PHOTO shield

MIKROE-712
Battery Boost shield

Hardware Debugging

Efficiently erradicate any bugs and iron out your code until it's wrinkle free and your clicker 2 device works perfectly—use mikroProg™ for CEC1302. It's a fast hardware debugger and programmer that exploits the MCU's integrated encryption module, enabling secure firmware updating.

Tech specs

Pushbuttons, signal LEDs, jumpers, pads for connecting an external ON/OFF switch, here are all the bits and details at your disposal:
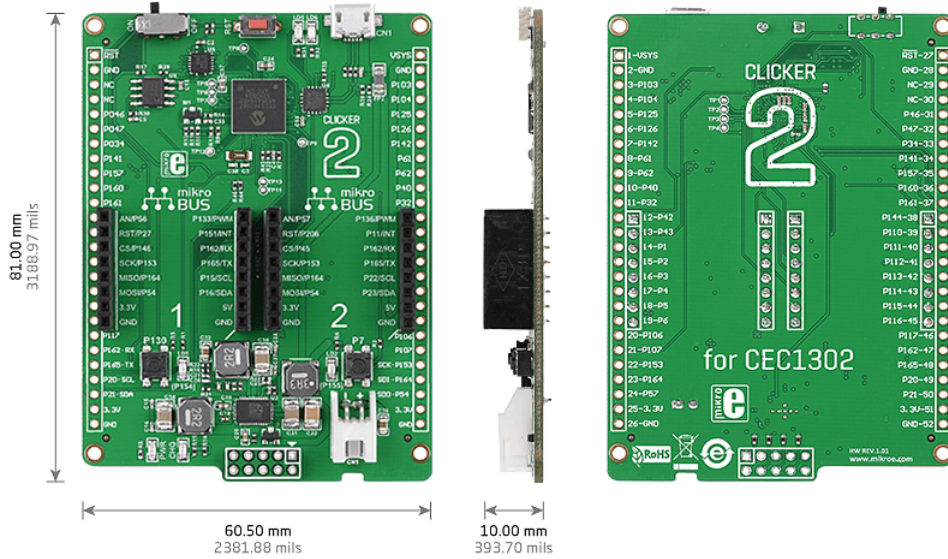
Processor

- CEC1302 has 128 KB SRAM
- 32 KB boot ROM
- 48MHz

Connectivity

- 52 programmable GPIOs
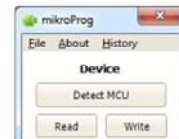- 2 mikroBUS host sockets
- USB Mini-B connector
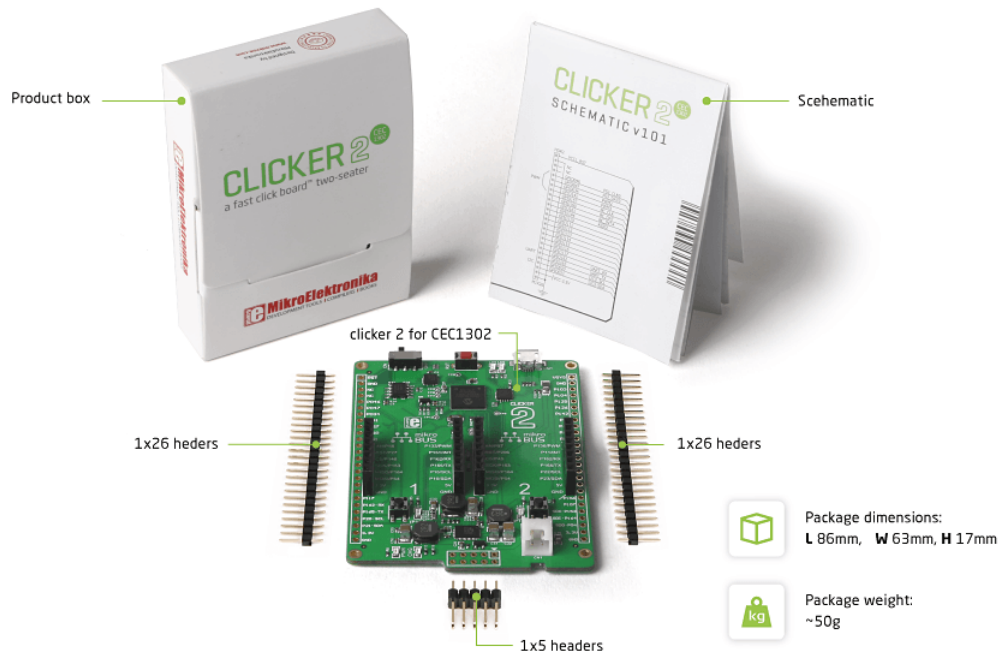
Documentation and software

Download Shematic [6.43MB]

Download UART Bootloader [1.05MB]

Download mikroProg Suite for ARM [2.3MB]

What's in the package?

Product box
Scehematic
clicker 2 for CEC1302
1x26 heders
1x26 heders

Package dimensions:
L 86mm, **W** 63mm, **H** 17mm

Package weight:
~50g

1x5 headers

Order Now

MIKROE-1969	clicker 2 for CEC1302