



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# BITalino (r)evolution Board Kit Data Sheet

BBK 160616

## SPECIFICATIONS

- > **Sampling Rate:** 1, 10, 100 or 1000Hz
- > **Analog Ports:** 4 in (10-bit) + 2 in (6-bit) + 1 auxiliary in (battery) + 1 out (8-bit)
- > **Digital Ports:** 2 in (1-bit) + 2 out (1-bit)
- > **Communication:** Bluetooth or BLE
- > **Range:** up to ~10m (in line of sight)
- > **Sensors:** EMG; ECG; EDA; EEG; ACC; LUX; BTN
- > **Actuators:** LED; BUZ
- > **Size:** 100x65x6mm
- > **Battery:** 500mA 3.7V LiPo (rechargeable)
- > **Consumption:** ~65mA
- > **Accessories:** 1x 3-lead cable; 1x 2-lead cable; 5x Electrodes; 1x ProtoBIT

## FEATURES

- > All-in-one ready-to-use design
- > Snappable blocks
- > Raw data acquisition
- > On-board battery charger
- > Easy-to-use
- > Affordable

## APPLICATIONS

- > Psychophysiology
- > Biomedical projects
- > Electrical engineering
- > Human-Computer Interaction
- > Robotics & Cybernetics
- > Physiology studies
- > Biofeedback

## GENERAL DESCRIPTION

Our signature BITalino (r)evolution Board kits have an all-in-one hardware design, with all the blocks pre-connected between them and ready-to-use, making it perfect for biosignal exploration and lab activities. The kit includes all the basic accessories needed to get started, namely the hardware modules, battery, cables and electrodes. Along with our cross-platform OpenSignals software, it enables instant biosignal data visualization and recording out-of-the-box.

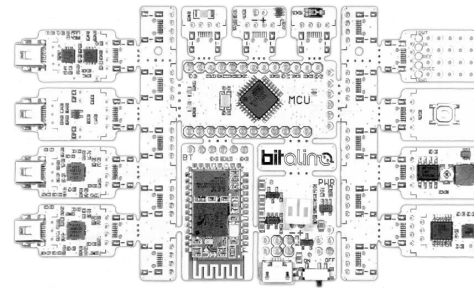


Fig. 1. All-in-one design ready to use out-of-the-box; available with Bluetooth (Fig. 4) or BLE (Fig. 5).



Fig. 2. The BITalino (r)evolution Board kits enable you to have your own personal biomedical research system.

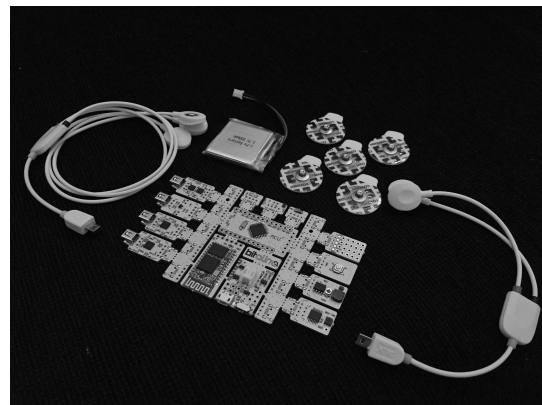


Fig. 3. Parts and accessories included in the kit.

# bitalino

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REV A

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BEWARE: DIRECT OR INDIRECT COUPLING TO THE MAINS MAY RESULT IN SHOCKING HAZARD



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## FUNCTIONAL BLOCKS

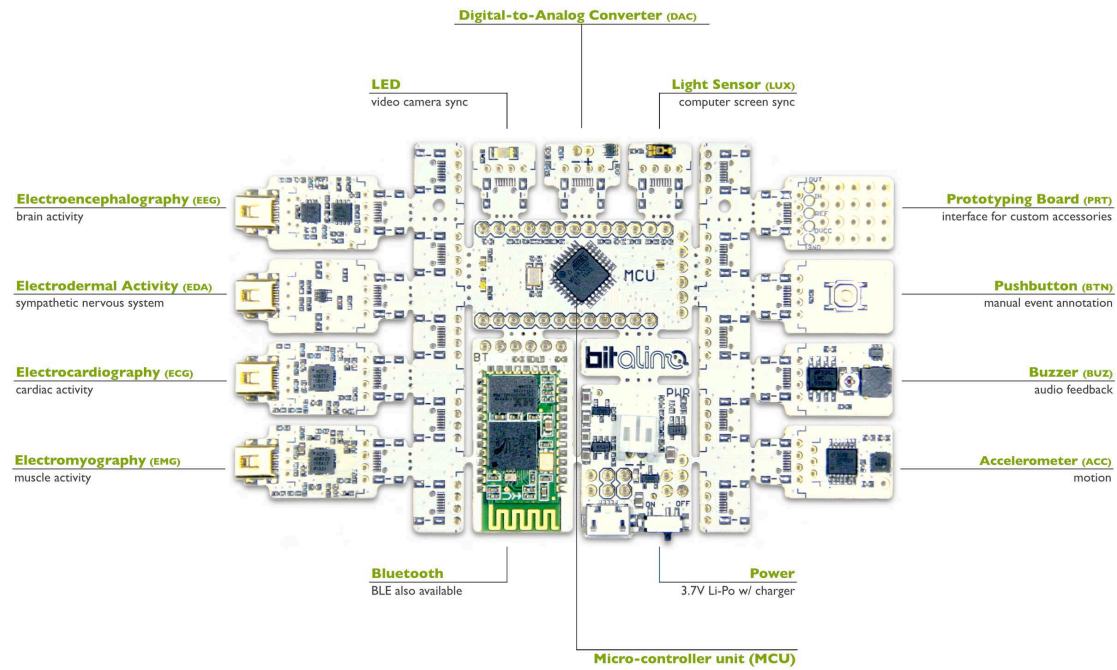


Fig. 4. BITalino (r)evolution Board with Bluetooth connectivity.

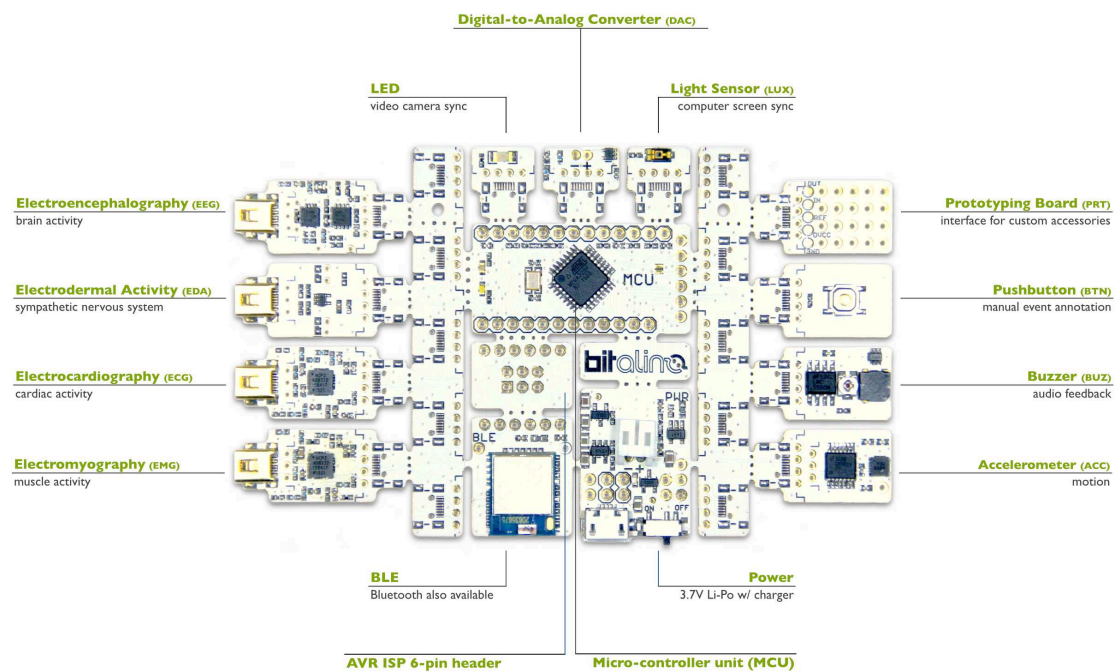


Fig. 5. BITalino (r)evolution Board with BLE connectivity.

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## PACKAGING

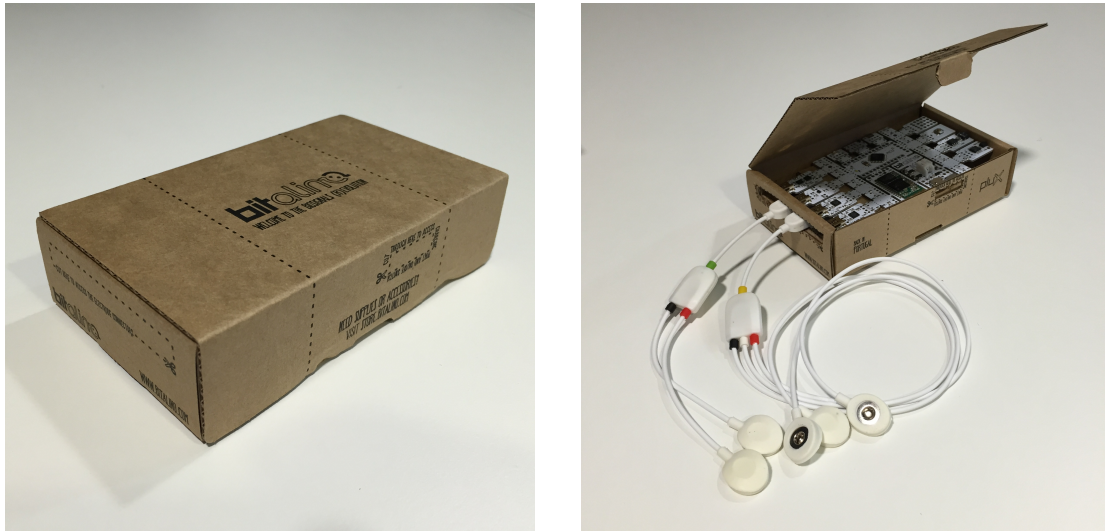


Fig. 6. BITalino (r)evolution Board kits ship in a convenient eco-friendly packaging that can double as an enclosure.

## ORDERING GUIDE

Part #	Description
KIT-REV-BOARD-BT-UCE6	BITalino (r)evolution Board kit with Bluetooth connectivity and UC-E6 connectors
KIT-REV-BOARD-BLE-UCE6	BITalino (r)evolution Board kit with BLE connectivity and UC-E6 connectors