

BITalino Freestyle Kit Data Sheet

SPECIFICATIONS

- > **Sampling Rate:** 1, 10, 100 or 1000Hz
- > **Analog Ports:** 4 in (10-bit) + 2 in (6-bit)
- > **Digital Ports:** 4 in (1-bit) + 4 out (1-bit)
- > **Communication:** Bluetooth 2.0+EDR
- > **Range:** up to ~10m (in line of sight)
- > **Sensors:** EMG; ECG; EDA; ACC; LUX
- > **Actuators:** LED
- > **Battery:** 500mA 3.7V LiPo (rechargeable)
- > **Consumption:** ~65mA (everything active)
- > **Accessories:** 3-lead cable (EMG/ECG); 2-lead cable (ECG/EDA); 5 electrodes

FEATURES

- > Perfect for hardware prototyping
- > Blocks provided as individual components
- > Stackable to enable compact form factors
- > Raw data acquisition
- > Battery charger
- > Easy-to-use
- > Affordable

APPLICATIONS

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

GENERAL DESCRIPTION

Our unique BITalino Freestyle kit has all the hardware blocks provided as individual components, making it perfect for student projects and prototyping of custom devices. The kit has all the accessories needed to get started, namely the hardware modules, battery, cables, and electrodes. Our cross-platform OpenSignals software enables instant data visualization and recording, while the APIs provide low-level access from third party and custom applications.

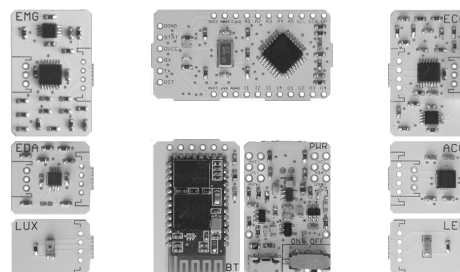


Fig. 1. Each block is provided as an individual component.

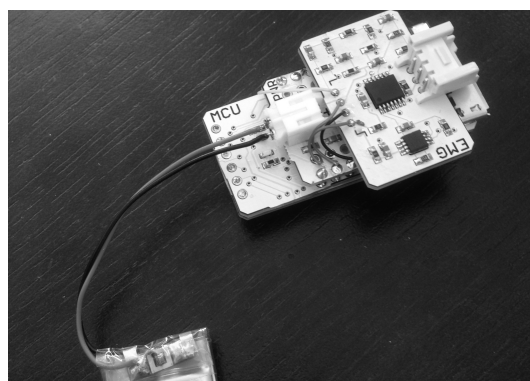


Fig. 2. The BITalino Freestyle kit enables you to easily create custom miniaturized biosignal acquisition devices.



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



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

