

BITalino (r)evolution Plugged Kit Data Sheet

BPK 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 (rech.)
- > **Consumption:** ~65mA
- > **Accessories:** 1x 3-lead cable; 1x 2-
lead cable; 1x UC-E6 to UC-E6 sensor
cable; 5x Electrodes; 1x ProtoBIT

FEATURES

- > Perfect for exploratory research
- > Plug & play 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

The all-terrain BITalino (r)evolution Plugged kits provide the blocks as a main board (the BITalino Core) with sensors / actuators being separate components. UC-E6 sockets on the Core and sensor boards provide plug & play connection (by cable) of BITalino or third party blocks to the analog and digital ports. Our cross-platform OpenSignals software enables instant data visualization and recording.

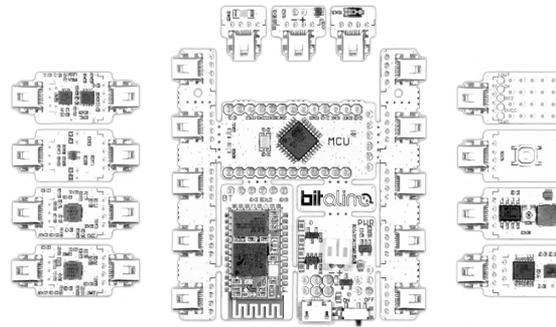


Fig. 1. Plug & play sensors separated from the main board (BITalino Core) and connected by cable provide maximum versatility; available with Bluetooth (Fig. 4) or BLE (Fig. 5).



Fig. 2. BITalino or third party sensors can be connected by cable to the main board in any user-defined configuration (all the enclosures shown in the image are optional accessories).

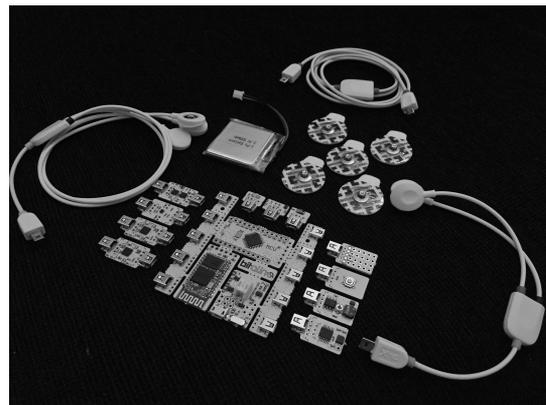


Fig. 3. Parts and accessories included in the kit.

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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

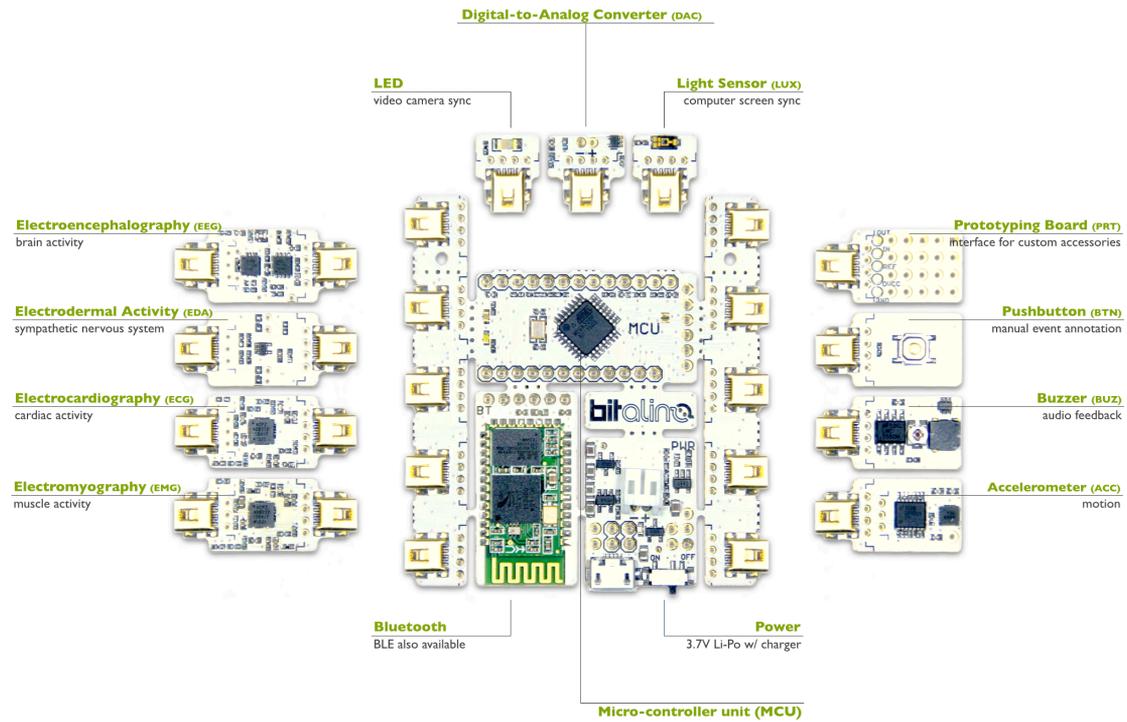


Fig. 4. BITalino (r)evolution Plugged with Bluetooth connectivity.

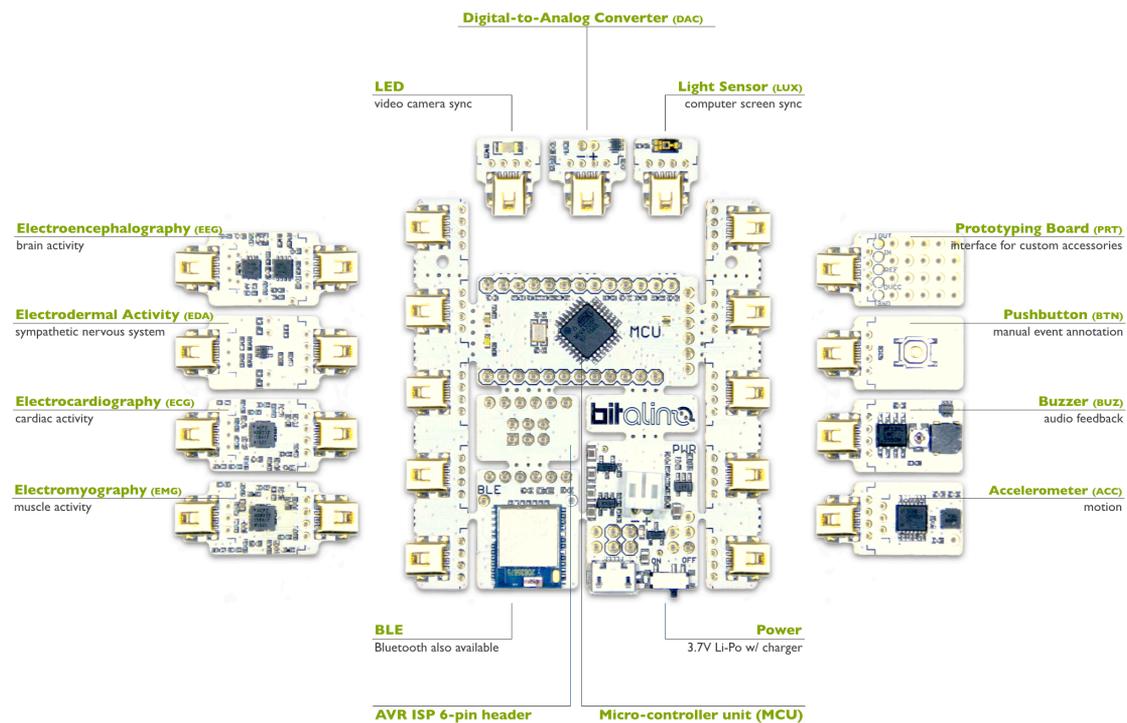


Fig. 5. BITalino (r)evolution Plugged with BLE connectivity.

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PACKAGING



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

ORDERING GUIDE

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