The AirBoard is a modular, wireless and power efficient prototyping platform for the Internet of Things (IoT), designed to explore, hack and deploy your killer idea in the field. It features a socket to host Bluetooth, WiFi, XBee, GSM/GPRS, SIGFOX and LoRa shields, an open solderless breadboard and a built-in battery with ultra-low Power Management System for years of autonomy.

### SPECIFICATIONS

**Size and Weight**
- 41x25x9mm
- Weight, including battery: 10g

**Native Arduino Processor**
- Arduino compatible
- ATmega328P processor @ 8MHz
- Pre-loaded Arduino bootloader
- Arduino IDE support
- Third-party codebender.cc web IDE

**Open solderless breadboard and socket headers**
- 7x GPIO, I²C / SPI, 2x 10-bit ADC, 3x PWM
- 5VUSB/500mA, 3.3V/200mA power outputs
- Up to 18x GPIOs, 6x 10-bit analog inputs or 6x PWMs

**Bright RGB LED**
- RGB LED, up to 2240mcd, 120° viewing angle

**Wireless**
- « XBee » shield socket form factor
- Wireless support: Bluetooth Low Energy 4.0, WiFi, Bluetooth 2.1, XBee, GSM/GPRS, SIGFOX, LoRa
- 2-channel Over-The-Air Programming (OTAP)
- 5-second programming via XBee, Bluetooth, WiFi

**Ultra Low Power Management System**
- 155mAh rechargeable lithium-ion battery
- 1A switchable RF LDO
- 330nA system deep sleep
- Autonomy in sleep mode: 2-3 years
- Autonomy in communication: 6 months (1 data/minute)

**Built-in battery charger**
- 1-cell Li-ion USB charger
- Battery Over Current, Charge & Discharge protect
- Battery level indicator, charge status, USB monitor
- Charge time: 1.5 hours