the airboard®
SKETCH EVERYWARE

Bluetooth · WiFi · XBee · GSM · SIGFOX · LoRa

AUSTRALIA, AUSTRIA, BAHRAIN, BELGIUM, BRAZIL, CANADA, CHINA, CHILE, COLOMBIA, CZECH REPUBLIC, DENMARK, FINLAND, FRANCE, GERMANY, GREECE, HONG KONG, HUNGARY, INDIA, INDONESIA, IRELAND, ISRAEL, ITALY, JAPAN, KENYA, KOREA, KUWAIT, LATVIA, LUXEMBOURG, MEXICO, MONACO, NETHERLANDS, NEW ZEALAND, NORWAY, PERU, POLAND, PORTUGAL, SINGAPORE, SLOVENIA, SOUTH AFRICA, SPAIN, SWEDEN, SWITZERLAND, TAIWAN, THAILAND, TURKEY, UKRAINE, UNITED ARAB EMIRATS, UNITED KINGDOM, USA, VIETNAM

ARDUINO compatible · **Solderless breadboard** · **Wireless programming** · **Years of autonomy**

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.

The AirBoard®
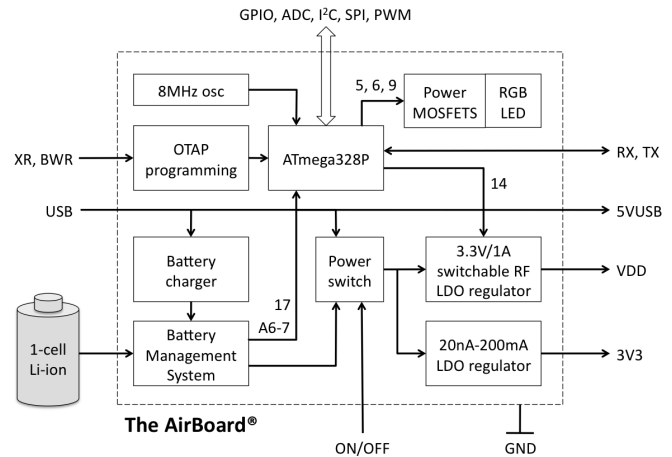
SPECIFICATIONS

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, I^2C / 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