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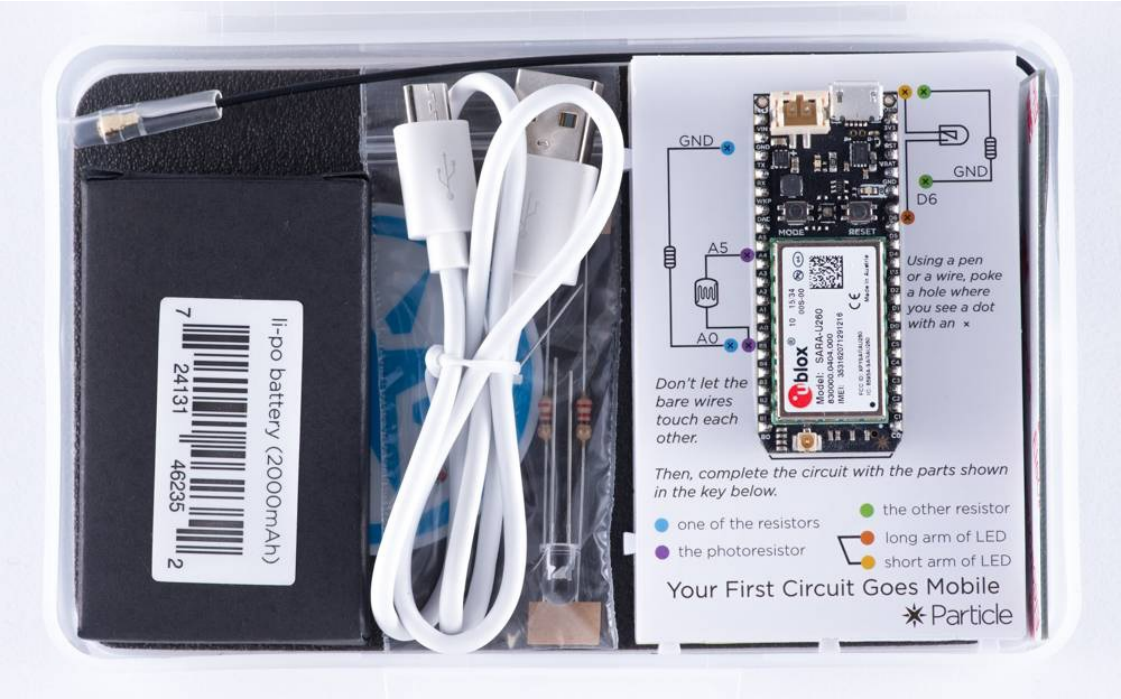
Particle Kits Overview

Here's a quick "what's in the box" for each of our offered kits. More detail is available by clicking on their links to the shields and kits page.

Electron

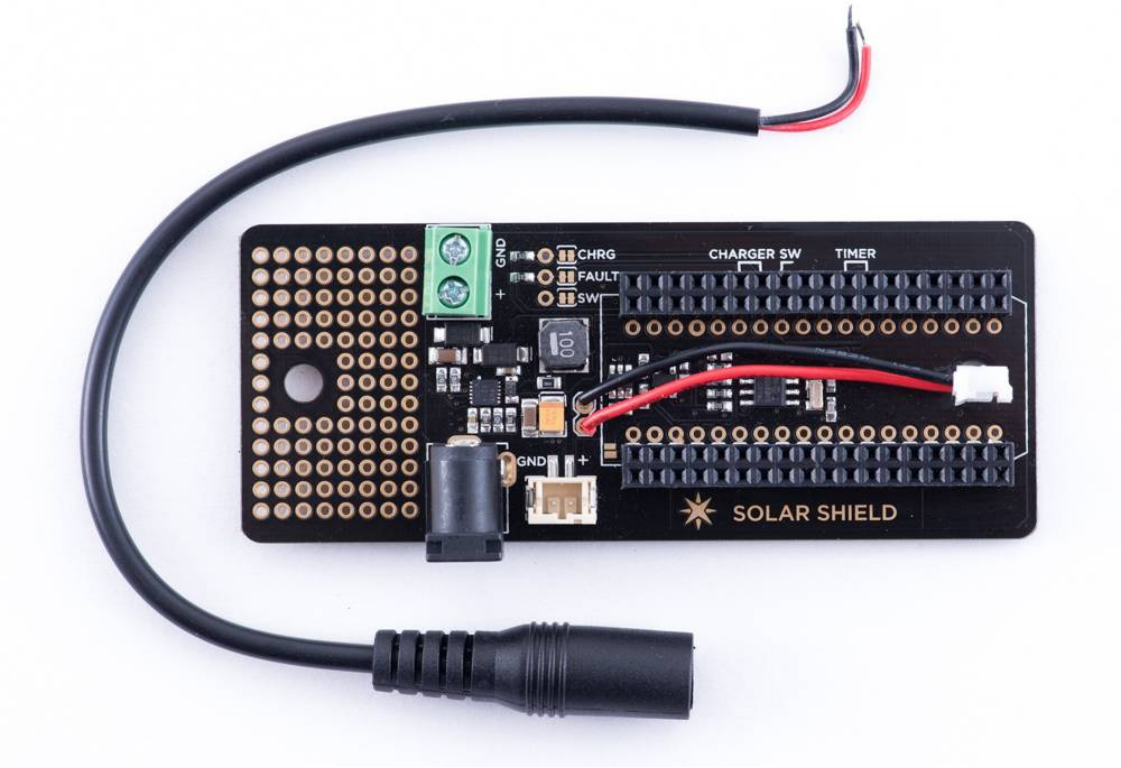
ELECTRON



More Info >

- (1) Electron
- (1) USB Micro B Cable
- (1) Particle SIM Card
- (1) Cellular Antenna
- (1) 2000mAh LiPo Battery
- (1) Particle Sticker
- (2) Resistor 220-Ohm
- (1) Breadboard
- (1) Photoresistor
- (1) Bright LED - White
- (1) Hard plastic box

ELECTRON SOLAR KIT



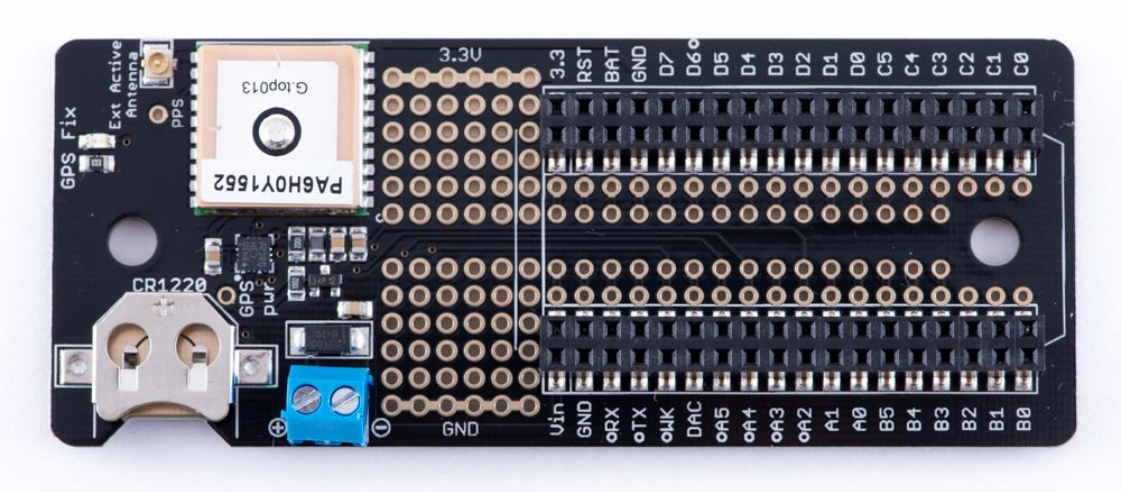
The Solar Kit comes with everything you need to make a solar powered cellular project! Super efficient power design so you can go off-the-grid with no need of wires. More Info >

- (1) Electron
- (1) USB Micro B Cable
- (1) Particle SIM Card
- (1) Cellular Antenna
- (1) 2000mAh LiPo Battery
- (1) Particle Sticker
- (2) Resistor 220-Ohm
- (1) Breadboard
- (1) Photoresistor
- (1) Bright LED - White

AND

- (1) Solar Shield
- (1) 6W Solar Panel from Voltaic
- (1) Barrel jack cable
- (1) Cable gland
- (1) Adhesive foam
- (2) Screws
- (1) Waterproof box!

ELECTRON ASSET TRACKER



The Asset Tracker is a GPS shield that also includes and accelerometer and waterproof box. Designed by Adafruit! More Info >

- (1) Electron
- (1) USB Micro B Cable
- (1) Particle SIM Card
- (1) Cellular Antenna
- (1) 2000mAh LiPo Battery
- (1) Particle Sticker
- (2) Resistor 220-Ohm
- (1) Breadboard
- (1) Photoresistor
- (1) Bright LED - White

AND

- (1) Asset Tracker Shield
- (1) Adhesive foam
- (2) Screws
- (1) Waterproof box!

ELECTRON SENSOR KIT

This is the big one! A fantastic collection of premium and versatile sensors. More Info >

- (1) Electron
- (1) USB Micro B Cable
- (1) Particle SIM Card
- (1) Cellular Antenna
- (1) 2000mAh LiPo Battery
- (1) Particle Sticker
- (2) Resistor 220-Ohm
- (1) Breadboard
- (1) Photoresistor
- (1) Bright LED - White

AND

- (1) ADXL362 accelerometer

- (1) GP2Y0A710K0F 100-500cm IR Distance sensor
- (1) LM2904 audio sensor
- (1) MQ2 gas sensor
- (1) SHT10 soil humidity and temperature sensor
- (1) HC-SR501 PIR motion sensor
- (1) DS18B20 waterproof temperature sensor
- (1) SW18020P vibration sensor
- Various jumper wires, resistors, capacitors, LEDs, and push buttons

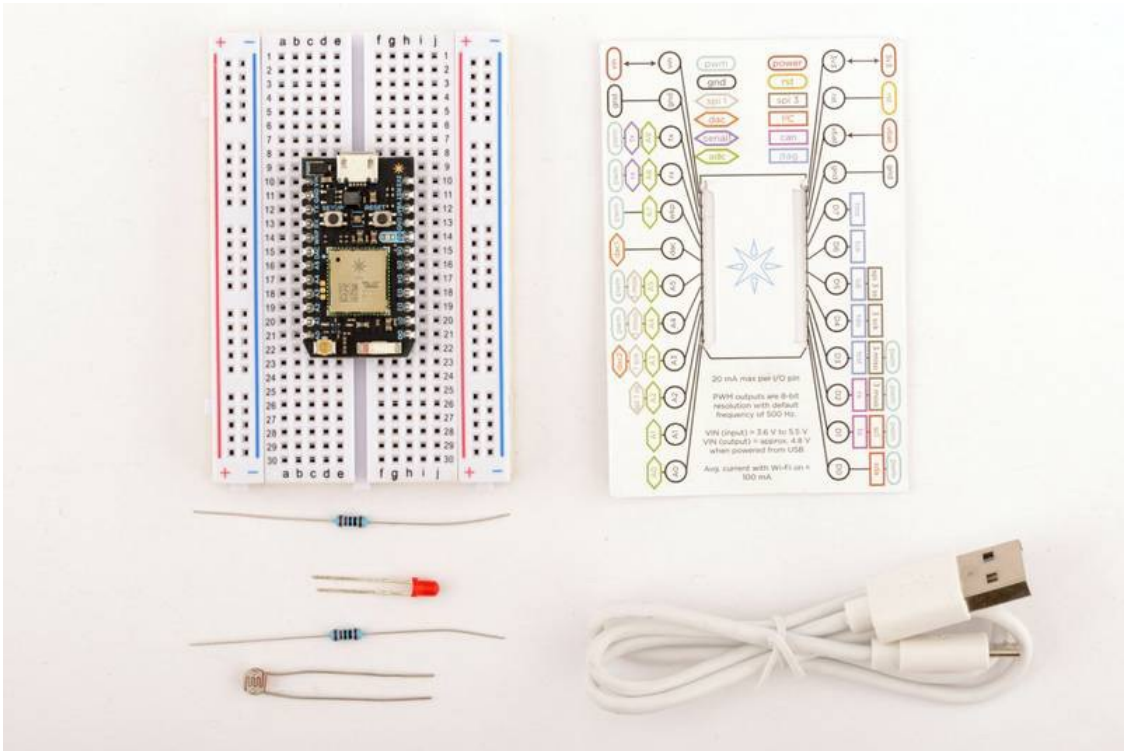
Photon

PHOTON

More Info >

- (1) Photon
- (1) Protective disposable paper strip
- (1) Reusable box

PHOTON KIT



More Info >

- (1) Photon
- (1) USB Micro B Cable
- (1) Breadboard
- (1) Photoresistor

- (1) Basic LED - Red
- (2) Resistor 220-Ohm

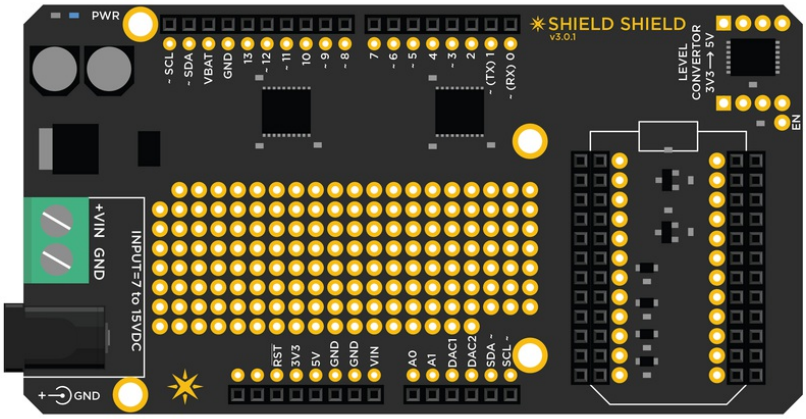
PHOTON MAKER KIT

More Info >

- Basics
  - (1) Photon with Headers
  - (1) USB Micro B Cable
  - (1) Flex antenna
  - (1) Breadboard
  - (1) Proto-board
  - (1) Deluxe Jumper Wire Pack
  - (10) Male to Female Jumper Wires
  - (1) Battery holder (4xAA, 2x2 with switch)
- Headers
  - (5) 12-Pin Female Headers
  - (2) 40-Pin Male Breakaway Headers
- Capacitors
  - (10) Ceramic Capacitor 10nF
  - (10) Ceramic Capacitors 100nF
  - (5) Electrolytic Capacitors 100uF
- LEDs and Diodes
  - (5) Basic LED - White
  - (5) Basic LED - Green
  - (1) RGB LED
  - (6) Diode
  - (1) IR LED
- Resistors
  - (10) Resistor 220-Ohm
  - (10) Resistor 1K-Ohm
  - (10) Resistor 10K-Ohm
  - (2) Photoresistors
  - (1) 10K Rotary Potentiometer
- Misc Components
  - (1) Temperature Sensor
  - (1) Temperature Sensor (covered)
  - (1) Piezo Buzzer
  - (3) Mini Push Buttons
  - (2) SPDT Switch
  - (1) SPDT Relay

- (1) NPN Transistor
- (1) PIR sensor
- (1) Pancake Vibration Motor
- (1) Micro Servo
- (1) Serial OLED LCD,0.96"

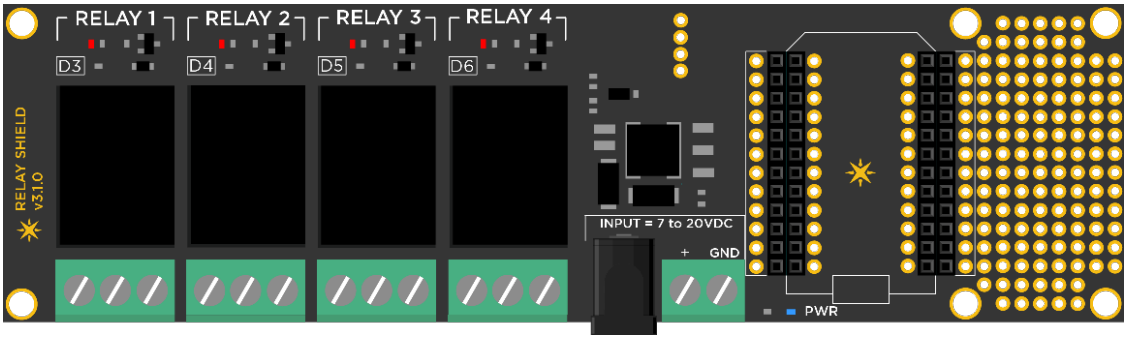
SHIELD SHIELD



Sometimes life can be a little difficult in the land of electronics when two systems talk a different voltage language. How do you make them talk to each other without making one of them *burn out*? The Shield Shield is the answer. This shield performs all the necessary voltage translation and provides an Arduino-compatible footprint to make it easier for you to plug in your existing Arduino shields or talk to other 5V hardware.

More Info >

RELAY SHIELD

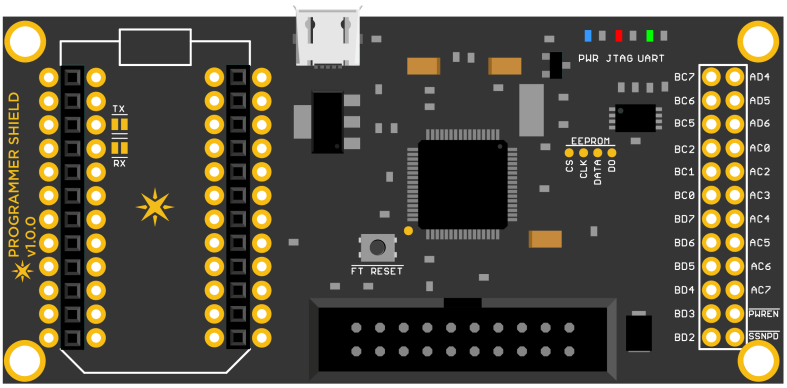


The Relay Shield allows you to take over the world, one electric appliance at a time. Want to control a lamp, fan, coffee machine, aquarium pumps or garden sprinklers? Then this is a solution for you!

The shield comes with four relays that are rated at a max of 220V @10Amp allowing you to control any electric appliance rated at under 2000 Watts. You are not just limited to an appliance though; any gadget that requires high voltage and/or a lot of current can be controlled with this shield.

More Info >

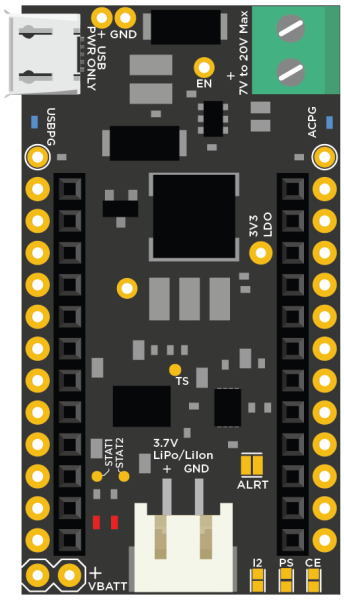
PROGRAMMER SHIELD



This is a FT2232H based JTAG programmer shield that is compatible with OpenOCD and Broadcom's WICED IDE. The FT2232 chip is setup to provide an USB-JTAG and USB-UART interface simultaneously. The FT2232 can be also reconfigured by the user by reprogramming the on-board config EEPROM. The unused pins are clearly marked and broken out into easy to access header holes.

More Info >

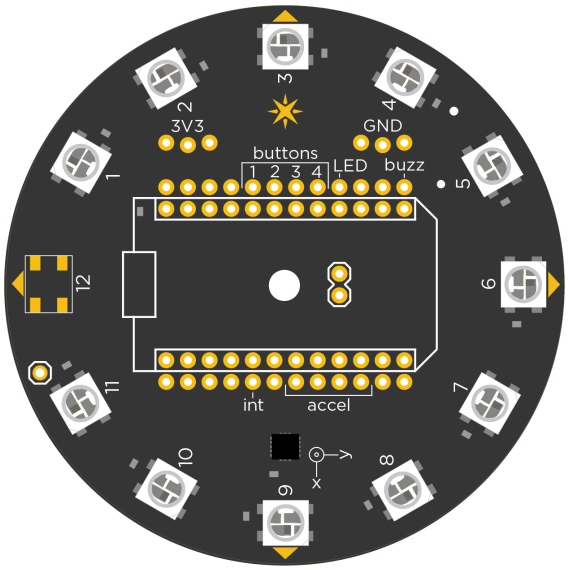
POWER SHIELD



The Power Shield, as the name implies, allows the Particle device to be powered from different types of power sources. The shield has an intelligent battery charger and power management unit along with a wide input voltage regulator and an I2C based fuel-gauge. You can power a Particle device with either a USB plug or a DC supply of anywhere from 7 to 20VDC and charge a 3.7V LiPo battery all at the same time.

More Info >

INTERNET BUTTON

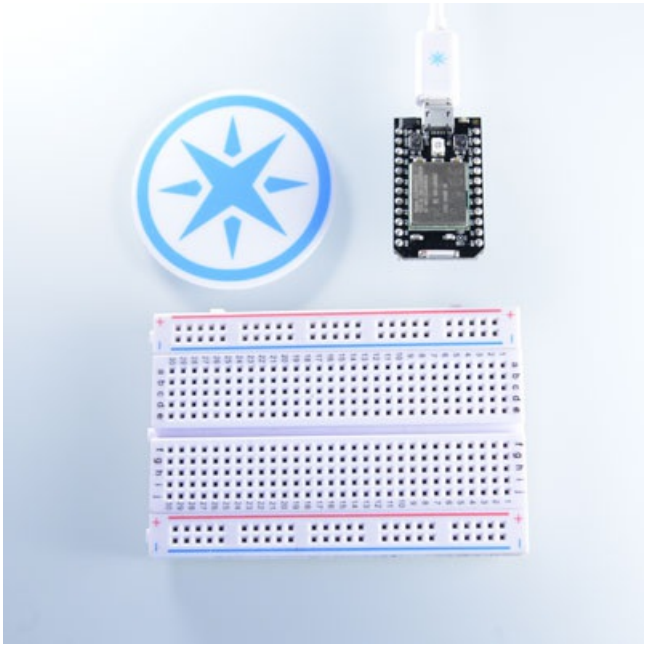


The Internet Button is not only an easy way to get started on the Internet of Things, it's also a clean and simple way to start building your own prototypes. Quickly start playing with LEDs, multiple buttons, an accelerometer and more without any wires or soldering.

More Info >

Core

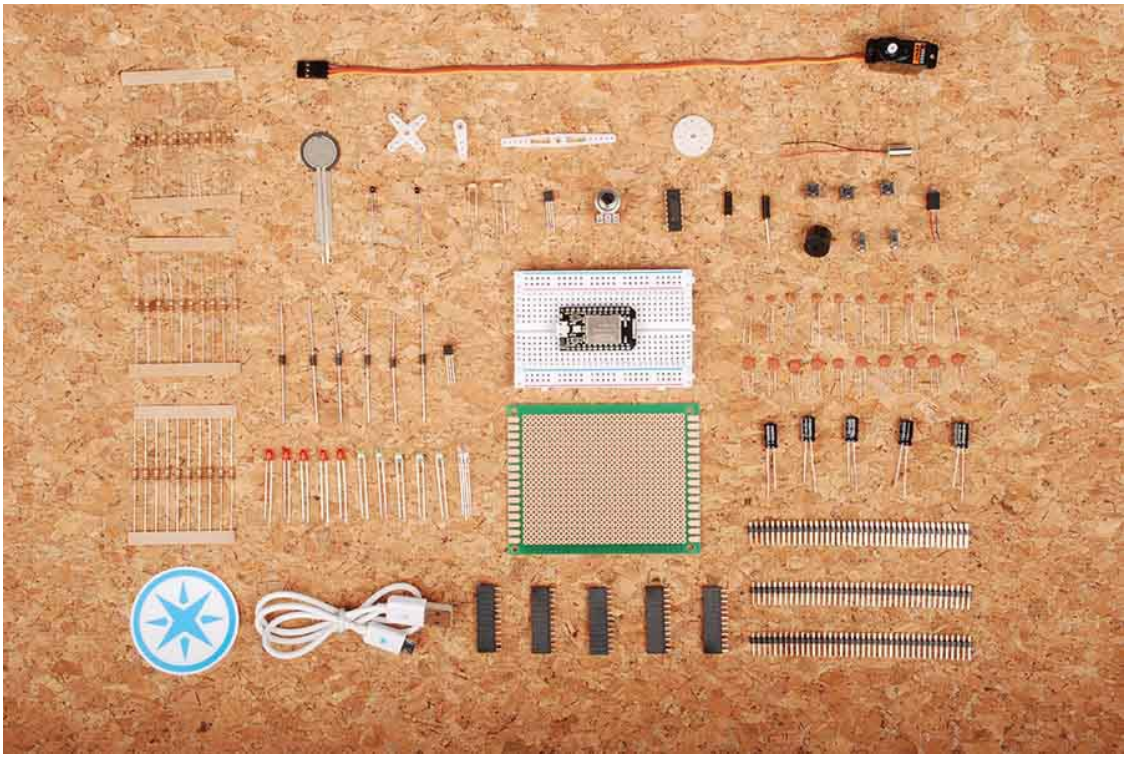
SPARK CORE



More Info >

- (1) Spark Core
- (1) USB micro B cable
- (1) Breadboard

SPARK CORE MAKER KIT



More Info >

- Basics
  - (1) Spark Core - u.FL or CA
  - (1) USB Micro B Cable

- (1) Breadboard

- Inputs
  - (3) Mini Push Buttons
  - (2) DPDT Switch
  - (2) Tilt Sensor
  - (1) Temperature Sensor
  - (1) Force-Sensitive Resistor
  - (2) Photo Resistors
  - (2) Thermistor
  - (1) 10K Rotary Potentiometer
- Outputs
  - (5) Basic LED - Red
  - (5) Basic LED - Green
  - (1) RGB LEDs
  - (1) Micro Servo
  - (1) Mini DC Motor
  - (1) Vibration Motor
  - (1) Piezo Buzzer
- Connectors
  - (1) Deluxe Jumper Wire Pack
  - (1) Breadboard
  - (1) Proto-board
  - (5) 8-Pin Female Headers
  - (2) 40-Pin Male Breakaway Headers
  - (1) 40-Pin Male Breakaway Dual-Headers
  - (10) Resistor 330-Ohm
  - (10) Resistor 1K-Ohm
  - (10) Resistor 10K-Ohm
  - (10) Ceramic Capacitor - 10nF
  - (10) Ceramic Capacitors 100nF
  - (5) Electrolytic Capacitors 100uF
  - (1) NPN Transistor
  - (6) Diode
  - (1) Shift Register IC