



**Simple Arduino Code:** Use the existing Particle Web IDE, and program your Pi with Wiring. No more complicated tooling, setup, or scripting to perform simple tasks like toggling a pin, blinking an LED, or reading a sensor value.

**Over-the-Air Updates:** Safely reprogram code running on your Pis one at a time in the Web IDE or as a fleet of devices in the Console.

**Batch Script Execution:** Remotely execute customized scripts on groups of Raspberry Pi's using the exec command.

**Remote Data Collection:** Collect and publish data to the Particle Cloud, or store it locally by logging it on your Pi.

**Integrations:** Integrate with IFTTT, Google Cloud, or Microsoft Azure.

This kit was specifically designed with the home tinkerer in mind. Use the included remote control and particle connection to send a tweet, access IFTTT, or trigger a remote actuator over the web. When you aren't within remote range, remote into your Pi through the Particle Cloud and flip a light switch, turn off a circuit, or monitor a security camera.

**This pack comes with a single Raspberry Pi 3 Computer!**

**Pack contains:**

Raspberry Pi 3 - Model B - ARMv8 with 1G RAM AND built-in WiFi - The FRESHEST freshness that's EVEN MORE FRESH than the already fresh Pi 2. This is hot off the presses, selling-like-hotcakes, Wi-Fi enabled, blindingly fast, credit card sized computer with quad USB ports, quad-core ARMv8, 1G RAM, and a little BlueFruit Low Energy that all make this board essential.

Adafruit Raspberry Pi B+ Case - Smoke Base / Clear Top - We think it's the Single Greatest Raspberry Pi 2 Model B Case Ever. This will still work with your Pi 3.

Adafruit Assembled Pi Cobbler Plus - This is the soldered together version of our popular Pi Cobbler Plus Kit. Comes with a breakout board that's perfect for cobbling prototypes as well as a 40-pin GPIO cable for your Pi's pins. Still works with the Pi 3.

Full Size Breadboard - In the past, we've used the half-size breadboard for a lot of Pi projects - but no longer! With 40 pins to break out, you're going to need some space - and that's why we're including a full size breadboard in this pack.

Premium Male/Male Jumper Wires - 20 x 6" (150mm) - These jumper wires are great for making wire harness or jumpering between headers on PCBs. We include the longer ones so they work well with the full-size breadboard.

USB to TTL Serial Cable - An old standby, this cable's pretty much the easiest way to connect your Raspberry Pi to a USB port to log into the debugging/login console. Ideal for running the Pi 'headless'

8 GB SD Card pre-installed with the latest NOOBs distribution - As of October 24th, 2016 this pack now contains the 8GB microSDHC card programmed with the latest Raspberry Pi NOOBs distribution.

5V 2.4A Switching Power Supply w/ 6' MicroUSB Cable - The 5V 2A power adapter is the perfect choice for powering your Raspberry Pi B+ with 2 Amps of current output, and an extra long cord. Note: As of March 28th, 2016 we've updated our power supply to be 5V 2.4A.

Mini Remote Control - Handy for controlling a robot or other project from across the room. It has 21 buttons including directional buttons and number entry buttons. The remote uses the NEC encoding type and sends data codes 0 thru 26 (it skips #3, #7, #11, #15, #19 and #23) to address #0. You can use this to control something that is expecting NEC codes or you can pair this with our IR remote receiver sensor.

IR (Infrared) Receiver Sensor - TSOP38238 - Tuned to 38KHz, perfect for receiving commands from a TV remote control. Runs at 3V to 5V so it's great for any microcontroller.

MCP3008 - 8-Channel 10-Bit ADC With SPI Interface - This chip will add 8 channels of 10-bit analog input to your microcontroller or microcomputer project.

On-Off-On-Off Alternating Power Button / Pushbutton 3-Way Toggle - A breadboard-friendly push-button toggle switch that connects and disconnects the middle pin from either of the two side switches with every click. This clicky switch makes a great power switch or mode toggler and can reliably handle up to 500mA and up to 12VDC.

Photo cell (CdS photoresistor) - Tiny light sensor.

**BONUS PARTS!** Everyone loves bonuses so we include some parts that will get you through some of the tutorials on the Adafruit Learning System. These include:

1x extra Photo Cell

5x 10K 5% 1/4W Resistor

**220 ohm 5% 1/4W through-hole resistors - Pack of 25** - Classic carbon film resistors, great for connecting to LEDs

5x 560 ohm 5% 1/4W Resistor

2x Diffused 10mm Blue LED

2x Diffused 10mm Red LED

2x Diffused 10mm Green LED

3x 12mm Tactile Switches

1x Electrolytic Capacitor - 1.0uF

1x Ceramic Capacitor - 0.1uF

2x 10K Trim Potentiometer