# Propeller Activity Kit Parts

Product ID: **130-32950**



**Overview**

Pair this bundle of Propeller Activity Kit Parts with a Propeller Activity Board and programming cable (not included), and you will have all of the electronic components needed to complete the activities in the "What's a Multicore Microcontroller?" text.

This parts kit includes a selection of input sensors, output devices, integrated circuits, and passive components for creating a wide variety of circuits on your Activity Board. Build your electronics skills and learn to use these common components with the circuit-building and C-language programming exercises included in the "What's a Multicore Microcontroller" text. Chapters 1 to 6 are available now as a free preview PDF download in advance of the full version release later this year.

**Key Features:**

Build simple circuits with schematics and wiring diagrams
Write programs in Propeller C to control the circuits
Send signals by blinking LEDs
Sense contact with pushbuttons
Read a control knob using a potentiometer
Measure light with a phototransistor
Control motion with a servo motor
Play tunes on a piezo speaker
Play WAV files from a microSD Card
Display data on a 7-segment LED
Combine several of the above circuits to prototype an invention

**Note:** Propeller Activity Board (#32910) and USB A to Mini B programming cable (#805-00006) required; not included.

**Note:** The "What's a Multicore Microcontroller?" text is still a work-in-progress. Chapters 1-6 are currently available to preview as a free PDF download (in Downloads and Documentation, below).  The full version will become available at a later date.

**Kit Contents:**

(1)  - 2 GB MicroSD Card (#32319)
(1)  - 4-cell AA Battery Pack (#700-00038)
(10) - 1 k-ohm 1/4 W 5% resistor (#150-01020)
(4)  - 10 k-ohm 1/4 W 5% resistor (#150-01030)
(2)  - 100 k-ohm 1/4 W 5% resistor (#150-01040)
(2)  - 2 k-ohm 1/4 W 5% resistor (#150-02020)
(1)  - 220 ohm 1/4 W 5% resistor (#150-02210)
(1)  - 470 ohm 1/4 W 5% resistor (#150-04710)
(2)  - 0.01 µF poly capacitor (#200-01031)
(2)  - 0.1 µF ceramic capacitor (#200-01040)
(1)  - 1000 µF electrolytic capacitor (#201-01080)
(1)  - 3300 µF electrolytic capacitor (#201-03080)
(1)  - 10 k-ohm single-turn potentiometer (#152-01031)
(2)  - Green LED (#350-00001)
(1)  - Bi-color LED (#350-00005)
(2)  - Red LED (#350-00006)
(2)  - Yellow LED (#350-00007)
(1)  - Phototransistor (#350-00029)
(1)  - 7-segment LED display (#350-00037)
(2)  - Pushbutton tact switch (#400-00002)
(1)  - 3-pin Header (#451-00303)
(1)  - 2N3904 transistor (#500-00001)
(1)  - 10 k-ohm digital potentiometer AD5220 (#604-00010)
(2)  - 3-inch jumper wires, bag of 10 (#800-00016)
(1)  - Piezo speaker (#900-00001)
(1)  - Parallax Standard Servo (#900-00005)