

SparkFun Inventor's Kit Guidebook - V3.3

BOK-13971 ROHS

Note: Updated Version Available

There is an updated version of this product available: [BOK-14263](#)

The full-color SparkFun Inventor's Kit Guidebook V3.3 contains step by step instructions of how to connect up to 16 different circuit experiments. Full example code is provided and explained and even includes troubleshooting tips if something goes wrong. Once you make your way through all of the example circuits you will have a much better grasp on programming electronics!

However, if you are an Educator, you can get this guidebook for free! Please keep in mind that this guidebook is for the SIK V3.3 and not the most recent edition. Once the stock for this book is gone, we will not stock them again so get them while you can!

Note: If you are an educator and are able to get this guidebook for free, please keep in mind that shipping will still need to be charged to process your order.

EXAMPLES

- Circuit 1: Blinking an LED
- Circuit 2: Reading a Potentiometer
- Circuit 3: Driving an RGB LED
- Circuit 4: Driving Multiple LEDs
- Circuit 5: Push Buttons
- Circuit 6: Reading a Photo Resistor
- Circuit 7: Reading a Temperature Sensor
- Circuit 8: Driving a Servo Motor
- Circuit 9: Using a Flex Sensor
- Circuit 10: Reading a Soft Potentiometer
- Circuit 11: Using a Buzzer
- Circuit 12: Driving a Motor
- Circuit 13: Using Relays
- Circuit 14: Using a Shift Register
- Circuit 15: Using an LCD
- Circuit 16: Building a Simon Says


Begin your Journey into Electronics

This kit will guide you through experiments of varying difficulty as you learn all about embedded systems, physical computing, programming and more! This kit is perfect for anyone who wants to explore the power of the RedBoard platform.

The SparkFun Inventor's Kit teaches basic programming, for which you will need both a computer and an internet connection.

You will also learn to assemble 16 basic physical electronic circuits, but **no soldering is required**. No previous experience is necessary!

KIT INCLUDES



SparkFun RedBoard	RGB LED	Photo Resistor	300 ohm resistors
Breadboard	Temperature sensor	Transistors	Piezo buzzer
Instruction booklet	DC motor	Jumper wires	Flex sensor
Sealed relay	3-bit shift register	USB cable	Soft potentiometer
Small servo	Push button switches	Signal diodes	Baseplate
LEDs	Potentiometer	10K ohm resistors	LCD

© SparkFun Electronics, Inc. All rights reserved. The SparkFun Inventor's Kit is the best in physical systems, specifications, custom hardware and assembly are subject to change. Please refer to the Assembly Manual Guide and the Kit parts list for specific details.

The kit does not include the SparkFun Inventor's Kit for the SparkFun RedBoard. A limited guide for the kit is available at www.sparkfun.com.

To view a copy of this document, visit www.sparkfun.com or visit our website at www.sparkfun.com.