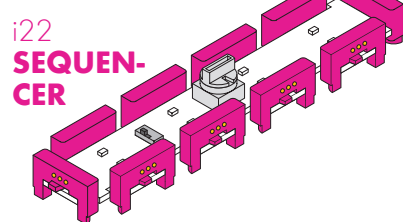
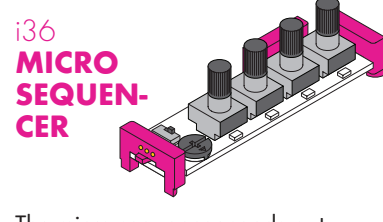


littleBits BIT INDEX



This Bit lets you connect to up to eight outputs and control them in sequential patterns.



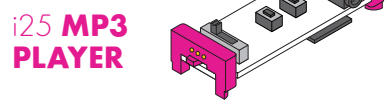
The micro sequencer sends out voltages based on the position of each of the four knobs.



Think of the threshold as a toll booth for signal passing through your circuit.



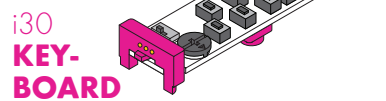
The mix Bit allows you to combine two inputs and send them to a single output.



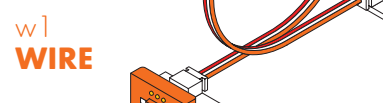
The mp3 player allows you to play your very own mp3 files using littleBits.



The NAND Bit is a logic gate with two inputs. Think of it as "not and".



The Keyboard features 13 switches that make an octave of notes so you can play melodies.



The wire doesn't change the signal in any way – it just carries it over from one Bit to another.



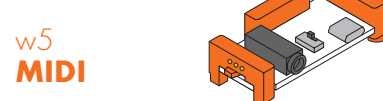
The branch Bit lets you connect the output of a single Bit to as many as three others.



Double OR is a logic gate. The output is active if either of its two inputs is active.



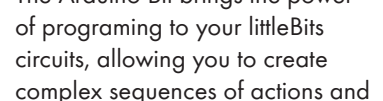
Double AND is a logic gate. It sends an ON signal when its two inputs receive an ON signal.



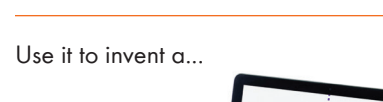
Send and receive MIDI messages with the MIDI Bit.



The Arduino Bit brings the power of programming to your littleBits circuits, allowing you to create complex sequences of actions and explore new levels of logic and timing. It also connects your Bits to programs like processing, MaxMSP, Flash, and more.



The USB I/O Bit allows you to record digital audio directly into your computer.



The perf Bit is an easy way to prototype a circuit for the littleBits collection.



Connect one output to as many as three other Bits to trigger multiple actions at once.



Use the latch to turn any momentary input into an ON/OFF switch, like a toggle.



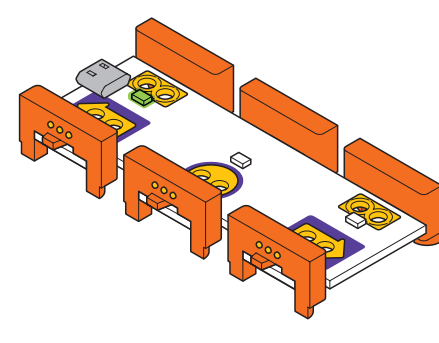
Use the proto Bit to hack into existing Bits or invent a brand new one.



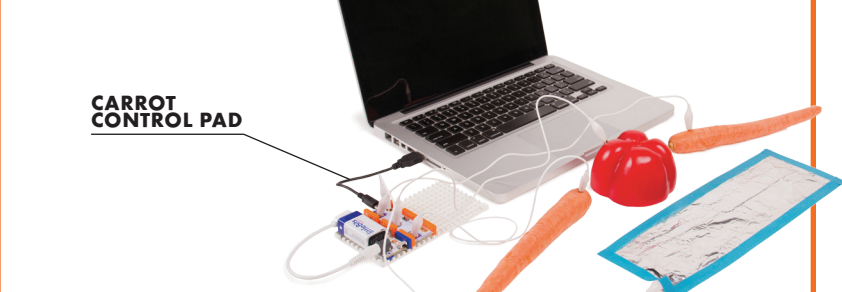
Inverter is a very contrary logic Bit. It sends out the opposite of whatever it receives.

w14 MAKEY MAKEY

The Makey Makey Bit turns everyday conductive objects (like bananas) into triggers that control your circuit and even your computer. You can connect the Makey Makey Bit to these objects using alligator clips.



Use it to invent a...



w15 NOR

This logic gate sends an ON signal when neither of its two inputs is receiving a signal.

o2 LONG LED

This Bit uses a light-emitting diode (LED) to turn electricity into light.

o3 RGB LED

The RGB LED is a light with adjustable color.

o4 VIBRATION MOTOR

With the vibration motor Bit, you can make anything vibrate & buzz.

o6 BUZZER

The buzzer converts the electrical signal it receives into a vibration, which creates a buzzing sound.

o7 IR LED

The IR LED Bit sends out light with longer wavelengths than visible light.

w16 NAND

The NAND Bit is a logic gate with two inputs. Think of it as "not and".

w17 XOR

The XOR Bit is a logic gate with two inputs. Think of it as "exclusive or".

w18 CONTROL VOLTAGE

Integrate your littleBits circuits with other analog synthesizers.

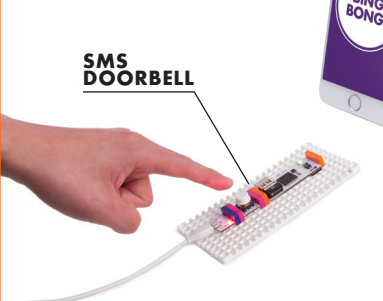
w19 SPLIT

The split divides the incoming signal & sends it to the two output bitSnaps.

w20 CLOUDBIT™

The cloudBit allows you to connect all of your Bits to the internet. The littleBits Invent app makes things easy. No programming or wiring necessary.

Use it to invent a...



w21 WIRELESS RECEIVER

The wireless receiver Bit receives a signal from your wireless transmitter.

w22 WIRELESS TRANSMITTER

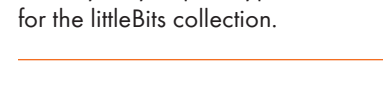
The wireless transmitter Bit sends a signal to your wireless receiver.

w27 USB I/O

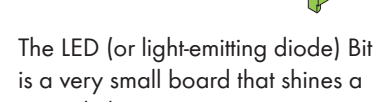
The USB I/O Bit allows you to record digital audio directly into your computer.

w29 PERF

The perf Bit is an easy way to prototype a circuit for the littleBits collection.



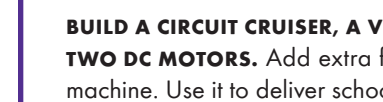
The LED (or light-emitting diode) Bit is a very small board that shines a green light.



Use the fan to create a gentle breeze, perfect for cooling things off. You can also try taping small things (like stickers or pieces of paper) to the center of the fan for some spinning visuals.



Use it to invent a...



Use it to invent a...

Use it to invent a...

POWER BITS

p1 POWER

Every circuit starts with power. It provides electricity that makes Bits spin, buzz, blink, & shine.

p3 USB POWER

Power your circuit through a micro USB cable that can be connected to a computer or wall adapter.

i14 BEND SENSOR

The bend sensor turns on as you flex the long strip.

i6 PULSE

The pulse is a switch that opens and closes over and over again.

i17 TIMEOUT

The timeout Bit is a settable timer.

i18 MOTION TRIGGER

The motion trigger is a sensor that detects the slightest movement around it.

i19 ROLLER SWITCH

This Bit has a little lever with a wheel, and activates when something pushes the roller in.

i20 SOUND TRIGGER

The sound trigger has a microphone that measures how much noise is around it.

i21 MICROPHONE

Use this Bit to turn sounds into light or motion, or use it with the speaker Bit like a small megaphone!

i3 BUTTON

The button Bit is a classic: big, round, and springy for comfortable pressing.

i5 SLIDE DIMMER

Slide this dimmer back and forth to control your circuit.

i6 DIMMER

Twist this dimmer back and forth to control your circuit.

i7 REMOTE TRIGGER

The remote trigger lets you use a common remote control with your Bits.

i11 PRESSURE SENSOR

The pressure sensor is a touch-activated Bit. Give its pad a squeeze to activate it.

i12 TEMPERATURE SENSOR

The temperature sensor takes a measurement from the environment and translates it into a signal.

i13 LIGHT SENSOR

Use this Bit to control your circuits with light.

i22 SEQUENCER

This Bit lets you connect to up to eight outputs and control them in sequential patterns.

i36 MICRO SEQUENCER

The micro sequencer sends out voltages based on the position of each of the four knobs.

i23 THRESHOLD

Think of the threshold as a toll booth for signal passing through your circuit.

i25 MP3 PLAYER

The mp3 player allows you to play your very own mp3 files using littleBits.

i30 KEYBOARD

The Keyboard features 13 switches that make an octave of notes so you can play melodies.

i31 OSCILLATOR

The oscillator creates audio tones that can be manipulated with its pitch knob and tune dial.

i32 FILTER

The filter affects a note's timbre by changing the relative volume of certain frequencies.

i33 ENVELOPE

The envelope modifies the loudness contour of a sound.

i34 RANDOM

This Bit has two modes: "noise" (white noise) and "random voltage" that controls Bits.

i35 DELAY

The littleBits delay Bit takes incoming audio and repeats it, like an echo.

i37 MIX

The mix Bit allows you to combine two inputs and send them to a single output.

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