

# GOOGLE AIY VOICE KIT

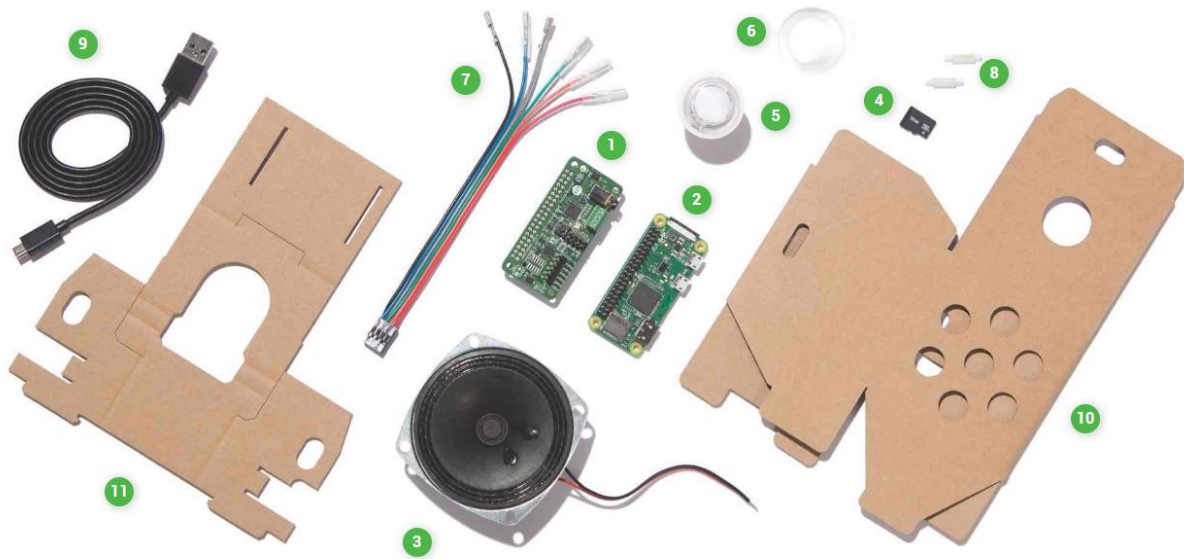


## DESCRIPTION

The AIY Voice Kit from Google lets you build your own natural language processor and connect it to the Google Assistant or Cloud Speech-to-Text service, allowing you to ask questions and issue voice commands to your programs. All of this fits in a handy little cardboard cube, powered by a Raspberry Pi.

Everything you need is provided in the kit, including the Raspberry Pi.

## LIST OF MATERIALS (INCLUDED ITEMS)



1	Voice Bonnet	(x1)	7	Button harness	(x1)
2	Raspberry Pi Zero WH	(x1)	8	Standoffs	(x2)
3	Speaker	(x1)	9	Micro USB cable	(x1)
4	Micro SD card	(x1)	10	Speaker box cardboard	(x1)
5	Push button	(x1)	11	Internal frame cardboard	(x1)
6	Button nut	(x1)			

Please note: the 2,5 A microUSB power supply is **not** included, and should be ordered / sold separately.

## ASSEMBLY INSTRUCTIONS & CODING SUPPORT

Detailed assembly instructions and a getting started guide can be found at:

<https://aiyprojects.withgoogle.com/voice/>

Try saying "*Beam me up Scotty!*" to the AIY Voice Kit :-)

Google provides a Python API Library, and downloads for a special image for the AIY Kits. The Voice Kit uses the Google Assistant and Cloud Speech APIs.

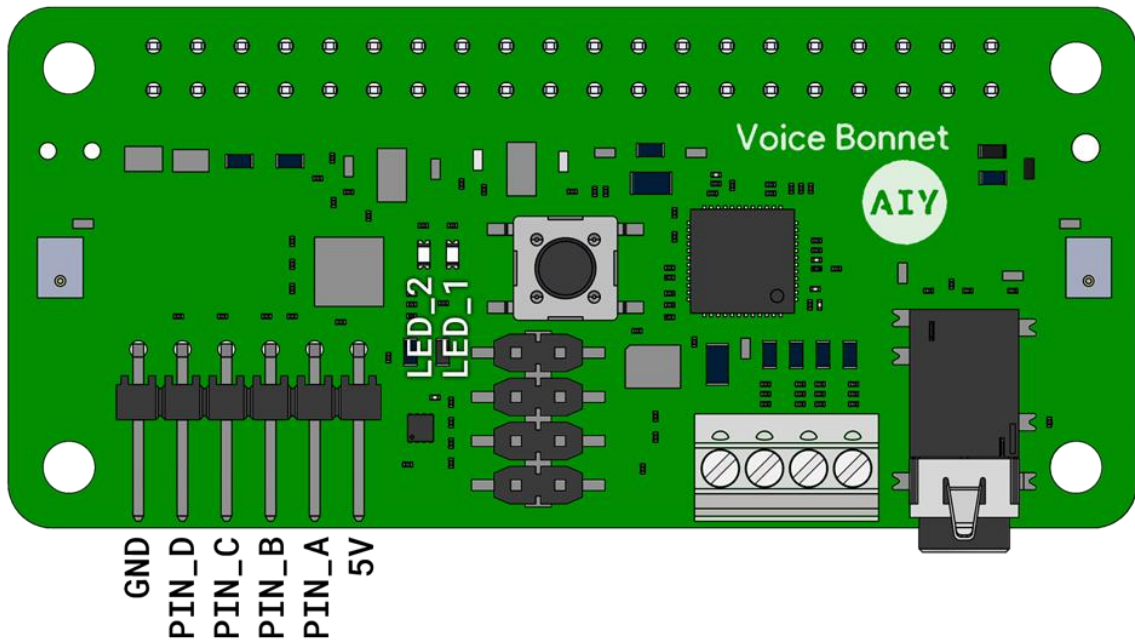
The SD card image supports both AIY Voice Kit and AIY Vision Kit. You can download the most recent release here:

<https://github.com/google/aiyprojects-raspbian/releases>

## VOICE BONNET ADDITIONAL CAPABILITIES

The Voice Bonnet also includes a dedicated microcontroller (MCU) that enables the following additional features:

- Control of four additional GPIO pins, freeing up the Pi GPIOs for other uses
- **PWM support for servo/motor control without taxing the Raspberry Pi's CPU**
- **Analog input support via on-board analog-to-digital converter (ADC)**
- Control of the two LEDs on the bonnet



The AIY projects page provides some samples how to use these advanced features of the Voice Bonnet as well.