IBM Watson AI and Raspberry PI

Adafruit and Sparkfun have made a kit for using the Watson AI with the Raspberry PI.

The price for the kit is rather staggering at $150.00

<https://www.adafruit.com/product/3462>

<https://www.sparkfun.com/products/14123>

This kit includes

**Kit includes:**

* Raspberry Pi 3 Model B
* Raspberry Pi Camera Board v2
* Micro Servo
* Mini USB Microphone
* Mini External USB Stereo Speaker
* Female/Female Jumper Wires - 20 x 3"
* Female/Male 'Extension' Jumper Wires - 20 x 3"
* 5V 2.4A Switching Power Supply
* NeoPixel Diffused 8mm Through-Hole LED - 5 Pack
* 16GB Card with NOOBS 2.1
* TJBot Chipboard and frame

The only thing I see in the kit that can’t be bought anywhere else cheaper is the TJBot Chipboard and frame.

And the Design files can be found here so you can 3D print your own, or laser cut them

<https://ibmtjbot.github.io/#gettj>

Let’s break it down:

Raspberry PI 3 Model B - $35.00

Raspberry PI Camera Board v2 - $15 or less on eBay or Aliexpress

Microservo (9g) - .99 cents <http://www.ebay.com/itm/SG90-Mini-Gear-Micro-9g-Servo-For-RC-Robot-Helicopter-/282299541511?hash=item41ba5d2807:g:G4cAAOSwpkFY50tn>

Mini USB microphone - $1.44 eBay <http://www.ebay.com/itm/Mini-USB-Microphone-Laptop-PC-Computer-Desktop-Audio-Studio-Recording-KTV-Mic/152580193509?ssPageName=STRK%3AMEBIDX%3AIT&_trksid=p2060353.m1438.l2649>

Mini External USB Stereo Speaker (Couldn’t find a replacement just like what Adafruit offers, so Adafruit $12.50) <https://www.adafruit.com/product/3369>

Dupont Wires (male/female female/female) about $4.00 ebay

5v 2.4a Switching power supply - various should be less than $10 on eBay

WS2812 (neopixel) 8mm LED 5pack about $6.00 on eBay <http://www.ebay.com/itm/8mm-WS2811-WS2812-LED-NeoPixels-qty-5-/161508021195?hash=item259aa0d3cb:g:WH4AAOSw0vBUf9Wj>

16gb SD card - Microcenter has cards about $7.00 without Noobs - you can find them with Noobs already on them for under $10 from eBay.

Let’s add it up:

About $92 dollars - DIY price could save you about $58 bucks.

More resources for the build can be found here:

<https://ibmtjbot.github.io/>

<https://github.com/ibmtjbot/tjbot>

