

DIY Walkie-Talkie With Generic 433MHz RF Modules

By GreatScottLab (/member/GreatScottLab/) in Circuits (/circuits/) > Electronics (/circuits/electronics/projects/) 6,032 26 2



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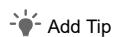
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In this project I will show you how to use generic 433MHz RF modules from Ebay in order to create a functional Walkie-Talkie. That means we will compare different RF Modules, learn a bit about a class d amplifier and finally build the Walkie-Talkie. It can be powered by a normal powerbank for around 130 hours and features a range of around 15m. **Let's get started!**



Add Tip



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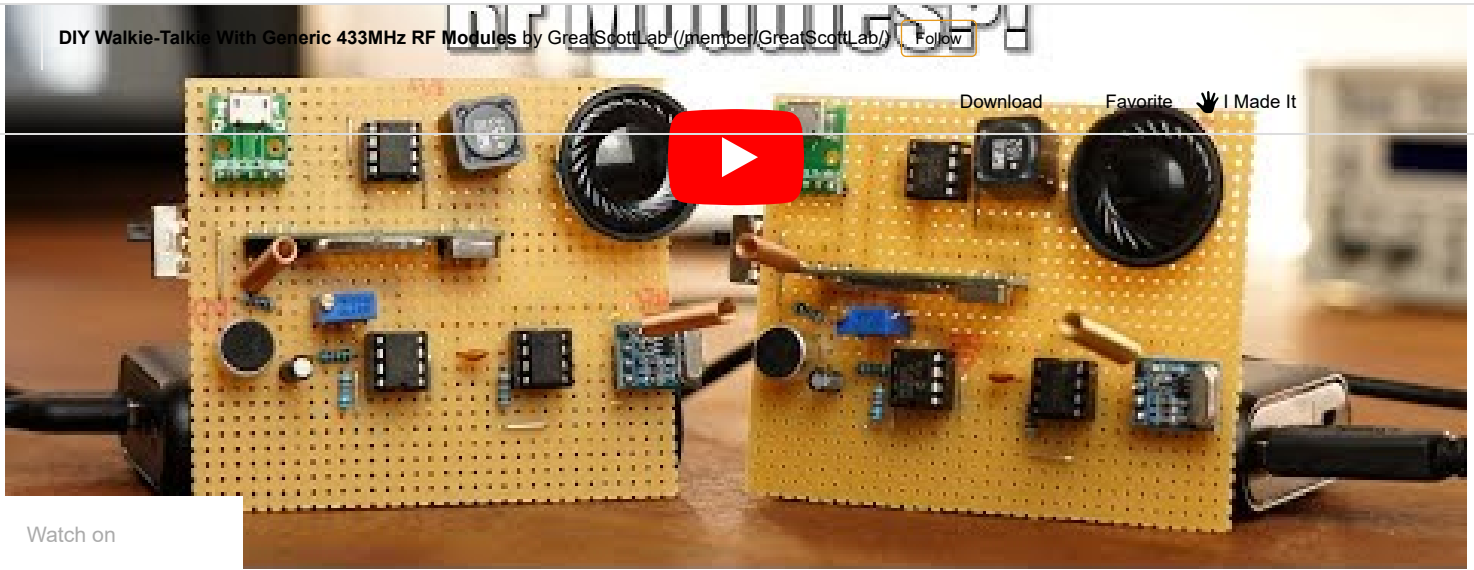


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Step 1: Watch the Video!





Make sure to watch the video! It gives you all the information you need to create your own Walkie-Talkie. During the next steps though I will present you some additional information.



Add Tip



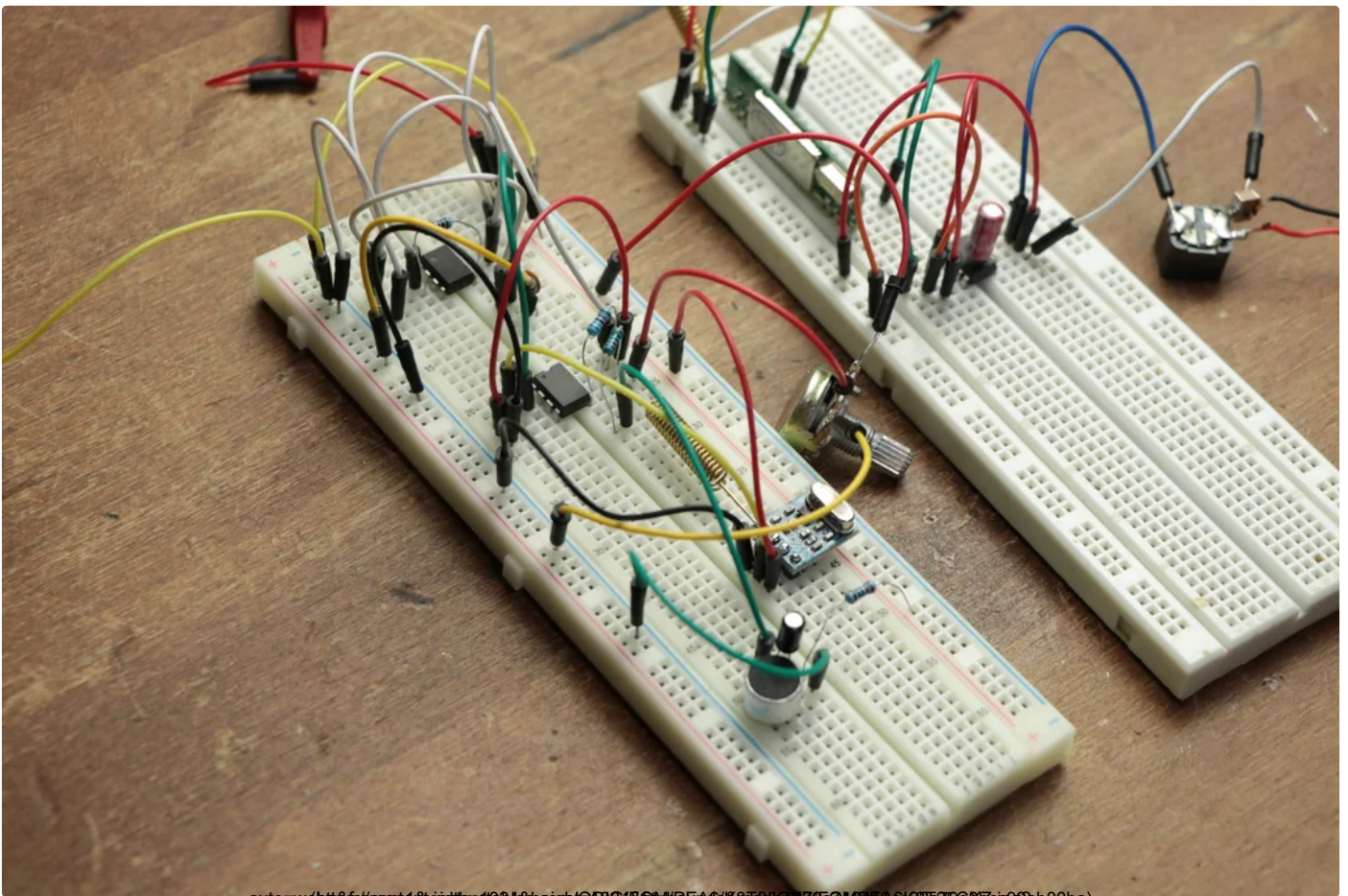
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Step 2: Order Your Components!



Here you can find a parts list with example seller (affiliate links):

Aliexpress:

2x 433MHz Transmitter: https://s.click.aliexpress.com/e/_dZWpOdO
(https://s.click.aliexpress.com/e/_dZWpOdO).

2x 433MHz Receiver: https://s.click.aliexpress.com/e/_dYg2WFi
(https://s.click.aliexpress.com/e/_dYg2WFi).

2x TLC555 IC: https://s.click.aliexpress.com/e/_dTrUY9D
(https://s.click.aliexpress.com/e/_dTrUY9D).

2x MCP602 IC: https://s.click.aliexpress.com/e/_dTvJRGw
(https://s.click.aliexpress.com/e/_dTvJRGw).

2x TC4428 IC: https://s.click.aliexpress.com/e/_dUoZWG8
(https://s.click.aliexpress.com/e/_dUoZWG8).

1x Mic: https://s.click.aliexpress.com/e/_dSPsdVK (https://s.click.aliexpress.com/e/_dSPsdVK).

1x 250k Trimmer: https://s.click.aliexpress.com/e/_dTFyPv5
(https://s.click.aliexpress.com/e/_dTFyPv5).

Resistors: https://s.click.aliexpress.com/e/_dTPpXjt (https://s.click.aliexpress.com/e/_dTPpXjt).

Capacitors: https://s.click.aliexpress.com/e/_dU4FEsB (https://s.click.aliexpress.com/e/_dU4FEsB),
https://s.click.aliexpress.com/e/_d7dOwRz (https://s.click.aliexpress.com/e/_d7dOwRz).

2x Micro USB Breakout PCB: https://s.click.aliexpress.com/e/_dWadkSj
(https://s.click.aliexpress.com/e/_dWadkSj).

2x 1500uH Inductor: https://s.click.aliexpress.com/e/_d7357MY
(https://s.click.aliexpress.com/e/_d7357MY).

2x Speaker: https://s.click.aliexpress.com/e/_d7xD9DK
(https://s.click.aliexpress.com/e/_d7xD9DK).

Ebay:

2x 433MHz Transmitter: [http://rover.ebay.com/rover/1/711-53200-19255-0/1?...](http://rover.ebay.com/rover/1/711-53200-19255-0/1?_ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F1PCS-433MHZ-SYN115-SYN480R-ASK-Wireless-Module-Transmitter-Receiver-Module-NEW%2F201414944046%3Fhash%3Ditem2ee544252e%3Ag%3AFMkAAOSweW5VW0Li)
(http://rover.ebay.com/rover/1/711-53200-19255-0/1?_ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F1PCS-433MHZ-SYN115-SYN480R-ASK-Wireless-Module-Transmitter-Receiver-Module-NEW%2F201414944046%3Fhash%3Ditem2ee544252e%3Ag%3AFMkAAOSweW5VW0Li).

2x 433MHz Receiver: [http://rover.ebay.com/rover/1/711-53200-19255-0/1?...](http://rover.ebay.com/rover/1/711-53200-19255-0/1?_ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F1pcs-RXB6-433Mhz-Superheterodyne-Wireless-Receiver-Module-for-Arduino-ARM-AVR%2F401085388270%3Fhash%3Ditem5d628d55ee%3Ag%3AeB4AAOSwbPtd9173)
(http://rover.ebay.com/rover/1/711-53200-19255-0/1?_ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F1pcs-RXB6-433Mhz-Superheterodyne-Wireless-Receiver-Module-for-Arduino-ARM-AVR%2F401085388270%3Fhash%3Ditem5d628d55ee%3Ag%3AeB4AAOSwbPtd9173).

2x TLC555 IC: [http://rover.ebay.com/rover/1/711-53200-19255-0/1?...](http://rover.ebay.com/rover/1/711-53200-19255-0/1?_ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F5pcs-TLC555CP-TLC555-ORIGINAL-TI-LinCMOSE-TIMERS%2F170881262435%3Fhash%3Ditem27c9512363%3Ag%3AqulAAOxy7MtRt9Sc)
(http://rover.ebay.com/rover/1/711-53200-19255-0/1?_ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F5pcs-TLC555CP-TLC555-ORIGINAL-TI-LinCMOSE-TIMERS%2F170881262435%3Fhash%3Ditem27c9512363%3Ag%3AqulAAOxy7MtRt9Sc).

2x MCP602 IC: [http://rover.ebay.com/rover/1/711-53200-19255-0/1?](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F5PCS-MCP602-MCP602-I-P-IC-OPAMP-DUAL-SNGL-SUPPLY-8DIP-NEW%2F181846803759%3Fhash%3Ditem2a56ea052f%3Ag%3AVdQAAOSweW5VGh0T)

([http://rover.ebay.com/rover/1/711-53200-19255-0/1?](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F5PCS-MCP602-MCP602-I-P-IC-OPAMP-DUAL-SNGL-SUPPLY-8DIP-NEW%2F181846803759%3Fhash%3Ditem2a56ea052f%3Ag%3AVdQAAOSweW5VGh0T)

[ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F5PCS-MCP602-MCP602-I-P-IC-OPAMP-DUAL-SNGL-SUPPLY-8DIP-NEW%2F181846803759%3Fhash%3Ditem2a56ea052f%3Ag%3AVdQAAOSweW5VGh0T](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F5PCS-MCP602-MCP602-I-P-IC-OPAMP-DUAL-SNGL-SUPPLY-8DIP-NEW%2F181846803759%3Fhash%3Ditem2a56ea052f%3Ag%3AVdQAAOSweW5VGh0T)

[F%2Fwww.ebay.com%2Fitm%2F5PCS-MCP602-MCP602-I-P-IC-OPAMP-DUAL-SNGL-SUPPLY-8DIP-NEW%2F181846803759%3Fhash%3Ditem2a56ea052f%3Ag%3AVdQAAOSweW5VGh0T](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F5PCS-MCP602-MCP602-I-P-IC-OPAMP-DUAL-SNGL-SUPPLY-8DIP-NEW%2F181846803759%3Fhash%3Ditem2a56ea052f%3Ag%3AVdQAAOSweW5VGh0T)

2x TC4428 IC: [http://rover.ebay.com/rover/1/711-53200-19255-0/1?...](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F2PCS-TC4428-TC4428ACPA-1-5A-Dual-High-Speed-Power-MOSFET-Drivers%2F191674434063%3Fhash%3Ditem2ca0afc20f%3Ag%3Ae3UAAOSwRLZT%7EegZ)

([http://rover.ebay.com/rover/1/711-53200-19255-0/1?](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F2PCS-TC4428-TC4428ACPA-1-5A-Dual-High-Speed-Power-MOSFET-Drivers%2F191674434063%3Fhash%3Ditem2ca0afc20f%3Ag%3Ae3UAAOSwRLZT%7EegZ)

[ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F2PCS-TC4428-TC4428ACPA-1-5A-Dual-High-Speed-Power-](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F2PCS-TC4428-TC4428ACPA-1-5A-Dual-High-Speed-Power-MOSFET-Drivers%2F191674434063%3Fhash%3Ditem2ca0afc20f%3Ag%3Ae3UAAOSwRLZT%7EegZ)

[F%2Fwww.ebay.com%2Fitm%2F2PCS-TC4428-TC4428ACPA-1-5A-Dual-High-Speed-Power-](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F2PCS-TC4428-TC4428ACPA-1-5A-Dual-High-Speed-Power-MOSFET-Drivers%2F191674434063%3Fhash%3Ditem2ca0afc20f%3Ag%3Ae3UAAOSwRLZT%7EegZ)

[MOSFET-](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F2PCS-TC4428-TC4428ACPA-1-5A-Dual-High-Speed-Power-MOSFET-Drivers%2F191674434063%3Fhash%3Ditem2ca0afc20f%3Ag%3Ae3UAAOSwRLZT%7EegZ)

[Drivers%2F191674434063%3Fhash%3Ditem2ca0afc20f%3Ag%3Ae3UAAOSwRLZT%7EegZ](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F2PCS-TC4428-TC4428ACPA-1-5A-Dual-High-Speed-Power-MOSFET-Drivers%2F191674434063%3Fhash%3Ditem2ca0afc20f%3Ag%3Ae3UAAOSwRLZT%7EegZ)

1x Mic: [http://rover.ebay.com/rover/1/711-53200-19255-0/1?...](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2FMicrophones-DIP-Capacitive-Electret-microphone-Sensitivity-52D%2F263051795869%3Fhash%3Ditem3d3f1bdd9d%3Am%3Amu_FckagkT-EHlrUoqlpkqw)

([http://rover.ebay.com/rover/1/711-53200-19255-0/1?](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2FMicrophones-DIP-Capacitive-Electret-microphone-Sensitivity-52D%2F263051795869%3Fhash%3Ditem3d3f1bdd9d%3Am%3Amu_FckagkT-EHlrUoqlpkqw)

[ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2FMicrophones-DIP-Capacitive-Electret-microphone-Sensitivity-](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2FMicrophones-DIP-Capacitive-Electret-microphone-Sensitivity-52D%2F263051795869%3Fhash%3Ditem3d3f1bdd9d%3Am%3Amu_FckagkT-EHlrUoqlpkqw)

[F%2Fwww.ebay.com%2Fitm%2FMicrophones-DIP-Capacitive-Electret-microphone-Sensitivity-](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2FMicrophones-DIP-Capacitive-Electret-microphone-Sensitivity-52D%2F263051795869%3Fhash%3Ditem3d3f1bdd9d%3Am%3Amu_FckagkT-EHlrUoqlpkqw)

[52D%2F263051795869%3Fhash%3Ditem3d3f1bdd9d%3Am%3Amu_FckagkT-EHlrUoqlpkqw](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2FMicrophones-DIP-Capacitive-Electret-microphone-Sensitivity-52D%2F263051795869%3Fhash%3Ditem3d3f1bdd9d%3Am%3Amu_FckagkT-EHlrUoqlpkqw)

1x 250k Trimmer: [http://rover.ebay.com/rover/1/711-53200-19255-0/1?...](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F25pcs-250K-ohm-Trimmer-Trim-Pot-Potentiometer-Resistor-3362%2F191988426102%3Fhash%3Ditem2cb366e576%3Ag%3AfX4AAOSwPCVX9Ykm)

([http://rover.ebay.com/rover/1/711-53200-19255-0/1?](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F25pcs-250K-ohm-Trimmer-Trim-Pot-Potentiometer-Resistor-3362%2F191988426102%3Fhash%3Ditem2cb366e576%3Ag%3AfX4AAOSwPCVX9Ykm)

[ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F25pcs-250K-ohm-Trimmer-Trim-Pot-Potentiometer-Resistor-](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F25pcs-250K-ohm-Trimmer-Trim-Pot-Potentiometer-Resistor-3362%2F191988426102%3Fhash%3Ditem2cb366e576%3Ag%3AfX4AAOSwPCVX9Ykm)

[F%2Fwww.ebay.com%2Fitm%2F25pcs-250K-ohm-Trimmer-Trim-Pot-Potentiometer-Resistor-](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F25pcs-250K-ohm-Trimmer-Trim-Pot-Potentiometer-Resistor-3362%2F191988426102%3Fhash%3Ditem2cb366e576%3Ag%3AfX4AAOSwPCVX9Ykm)

[3362%2F191988426102%3Fhash%3Ditem2cb366e576%3Ag%3AfX4AAOSwPCVX9Ykm](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F25pcs-250K-ohm-Trimmer-Trim-Pot-Potentiometer-Resistor-3362%2F191988426102%3Fhash%3Ditem2cb366e576%3Ag%3AfX4AAOSwPCVX9Ykm)

Resistors: [http://rover.ebay.com/rover/1/711-53200-19255-0/1?...](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F600Pcs-30-Values-1-4W-1-Resistor-Kit-10-1M-Ohm-Metal-Film-Resistor-Assortment%2F323944390283%3Fepid%3D28027557821%26hash%3Ditem4b6c971e8b%3Ag%3AVAsAAOSwC85cLGzY)

([http://rover.ebay.com/rover/1/711-53200-19255-0/1?](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F600Pcs-30-Values-1-4W-1-Resistor-Kit-10-1M-Ohm-Metal-Film-Resistor-Assortment%2F323944390283%3Fepid%3D28027557821%26hash%3Ditem4b6c971e8b%3Ag%3AVAsAAOSwC85cLGzY)

[ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F600Pcs-30-Values-1-4W-1-Resistor-Kit-10-1M-Ohm-Metal-Film-](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F600Pcs-30-Values-1-4W-1-Resistor-Kit-10-1M-Ohm-Metal-Film-Resistor-Assortment%2F323944390283%3Fepid%3D28027557821%26hash%3Ditem4b6c971e8b%3Ag%3AVAsAAOSwC85cLGzY)

[F%2Fwww.ebay.com%2Fitm%2F600Pcs-30-Values-1-4W-1-Resistor-Kit-10-1M-Ohm-Metal-Film-](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F600Pcs-30-Values-1-4W-1-Resistor-Kit-10-1M-Ohm-Metal-Film-Resistor-Assortment%2F323944390283%3Fepid%3D28027557821%26hash%3Ditem4b6c971e8b%3Ag%3AVAsAAOSwC85cLGzY)

[Resistor-](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F600Pcs-30-Values-1-4W-1-Resistor-Kit-10-1M-Ohm-Metal-Film-Resistor-Assortment%2F323944390283%3Fepid%3D28027557821%26hash%3Ditem4b6c971e8b%3Ag%3AVAsAAOSwC85cLGzY)

[Assortment%2F323944390283%3Fepid%3D28027557821%26hash%3Ditem4b6c971e8b%3Ag](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F600Pcs-30-Values-1-4W-1-Resistor-Kit-10-1M-Ohm-Metal-Film-Resistor-Assortment%2F323944390283%3Fepid%3D28027557821%26hash%3Ditem4b6c971e8b%3Ag%3AVAsAAOSwC85cLGzY)

[%3AVAsAAOSwC85cLGzY](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F600Pcs-30-Values-1-4W-1-Resistor-Kit-10-1M-Ohm-Metal-Film-Resistor-Assortment%2F323944390283%3Fepid%3D28027557821%26hash%3Ditem4b6c971e8b%3Ag%3AVAsAAOSwC85cLGzY)

Capacitors: [http://rover.ebay.com/rover/1/711-53200-19255-0/1?...](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F30-Values-300pcs-Ceramic-Capacitor-2pf-0-1UF-Assortment-Kit%2F221372015123%3Fhash%3Ditem338acce213%3Ag%3AzswAAMXOfvlShOco)

([http://rover.ebay.com/rover/1/711-53200-19255-0/1?](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F30-Values-300pcs-Ceramic-Capacitor-2pf-0-1UF-Assortment-Kit%2F221372015123%3Fhash%3Ditem338acce213%3Ag%3AzswAAMXOfvlShOco)

[ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F30-Values-300pcs-Ceramic-Capacitor-2pf-0-1UF-Assortment-](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F30-Values-300pcs-Ceramic-Capacitor-2pf-0-1UF-Assortment-Kit%2F221372015123%3Fhash%3Ditem338acce213%3Ag%3AzswAAMXOfvlShOco)

[F%2Fwww.ebay.com%2Fitm%2F30-Values-300pcs-Ceramic-Capacitor-2pf-0-1UF-Assortment-](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F30-Values-300pcs-Ceramic-Capacitor-2pf-0-1UF-Assortment-Kit%2F221372015123%3Fhash%3Ditem338acce213%3Ag%3AzswAAMXOfvlShOco)

[Kit%2F221372015123%3Fhash%3Ditem338acce213%3Ag%3AzswAAMXOfvlShOco](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F30-Values-300pcs-Ceramic-Capacitor-2pf-0-1UF-Assortment-Kit%2F221372015123%3Fhash%3Ditem338acce213%3Ag%3AzswAAMXOfvlShOco)

2x Micro USB Breakout PCB: [http://rover.ebay.com/rover/1/711-53200-19255-0/1?...](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F5pcs-5V-CJMCU-Micro-USB-Interface-Power-Adapter-Board-Breakout-Module-Charm%2F293391817554%3Fhash%3Ditem444f83db52%3Ag%3A8xUAAOSwM%7EdeAio0)

([http://rover.ebay.com/rover/1/711-53200-19255-0/1?](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F5pcs-5V-CJMCU-Micro-USB-Interface-Power-Adapter-Board-Breakout-Module-Charm%2F293391817554%3Fhash%3Ditem444f83db52%3Ag%3A8xUAAOSwM%7EdeAio0)

[ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F5pcs-5V-CJMCU-Micro-USB-Interface-Power-Adapter-Board-](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F5pcs-5V-CJMCU-Micro-USB-Interface-Power-Adapter-Board-Breakout-Module-Charm%2F293391817554%3Fhash%3Ditem444f83db52%3Ag%3A8xUAAOSwM%7EdeAio0)

[F%2Fwww.ebay.com%2Fitm%2F5pcs-5V-CJMCU-Micro-USB-Interface-Power-Adapter-Board-](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F5pcs-5V-CJMCU-Micro-USB-Interface-Power-Adapter-Board-Breakout-Module-Charm%2F293391817554%3Fhash%3Ditem444f83db52%3Ag%3A8xUAAOSwM%7EdeAio0)

[Breakout-Module-](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F5pcs-5V-CJMCU-Micro-USB-Interface-Power-Adapter-Board-Breakout-Module-Charm%2F293391817554%3Fhash%3Ditem444f83db52%3Ag%3A8xUAAOSwM%7EdeAio0)

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2x 1500uH Inductor: [http://rover.ebay.com/rover/1/711-53200-19255-0/1?...](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F10pcs-Two-Lead-1500uH-7x10-7mm-x-10mm-Radial-Leaded-Power-Inductor-20-Tolerance%2F312802722930%3Fhash%3Ditem48d47ec472%3Ag%3AliEAAOSwtLtef7cP)

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[F%2Fwww.ebay.com%2Fitm%2F10pcs-Two-Lead-1500uH-7x10-7mm-x-10mm-Radial-Leaded-](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F10pcs-Two-Lead-1500uH-7x10-7mm-x-10mm-Radial-Leaded-Power-Inductor-20-Tolerance%2F312802722930%3Fhash%3Ditem48d47ec472%3Ag%3AliEAAOSwtLtef7cP)

[Power-Inductor-20-](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2F10pcs-Two-Lead-1500uH-7x10-7mm-x-10mm-Radial-Leaded-Power-Inductor-20-Tolerance%2F312802722930%3Fhash%3Ditem48d47ec472%3Ag%3AliEAAOSwtLtef7cP)

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2x Speaker: [http://rover.ebay.com/rover/1/711-53200-19255-0/1?](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2FRadioShack-8-Ohm-Mini-Speaker-2730092%2F302264601627%3Fepid%3D21012070887%26hash%3Ditem46605fcc1b%3Ag%3AQzoAAOSwzgBY2EUC)

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[QzoAAOSwzgBY2EUC](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2FRadioShack-8-Ohm-Mini-Speaker-2730092%2F302264601627%3Fepid%3D21012070887%26hash%3Ditem46605fcc1b%3Ag%3AQzoAAOSwzgBY2EUC)

[QzoAAOSwzgBY2EUC](http://rover.ebay.com/rover/1/711-53200-19255-0/1?ff3=4&pub=5575101368&toolid=10001&campid=5337582279&customid=&mpre=https%3A%2F%2Fwww.ebay.com%2Fitm%2FRadioShack-8-Ohm-Mini-Speaker-2730092%2F302264601627%3Fepid%3D21012070887%26hash%3Ditem46605fcc1b%3Ag%3AQzoAAOSwzgBY2EUC)

Amazon.de:

2x 433MHz Transmitter: <https://amzn.to/2JYSpzi> (<https://amzn.to/2JYSpzi>)

2x 433MHz Receiver: <https://amzn.to/2yTatsh> (<https://amzn.to/2yTatsh>)

2x TLC555 IC: <https://amzn.to/39ZPPng> (<https://amzn.to/39ZPPng>)

2x MCP602 IC: <https://amzn.to/2XulScq> (<https://amzn.to/2XulScq>)

2x TC4428 IC: <https://amzn.to/34rOK6m> (<https://amzn.to/34rOK6m>)

1x Mic: <https://amzn.to/2XulVF8> (<https://amzn.to/2XulVF8>)

1x 250k Trimmer: <https://amzn.to/2Xuugbx> (<https://amzn.to/2Xuugbx>)

Resistors: <https://amzn.to/2VnNexR> (<https://amzn.to/2VnNexR>)

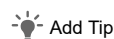
Capacitors: <https://amzn.to/2Xtzog8> (<https://amzn.to/2Xtzog8>)

<https://amzn.to/2JVHvKv> (<https://amzn.to/2JVHvKv>)

2x Micro USB Breakout PCB: <https://amzn.to/34zA8Sv> (<https://amzn.to/34zA8Sv>)

2x 1500uH Inductor: <https://amzn.to/34soVDe> (<https://amzn.to/34soVDe>)

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Step 3: Build the Circuit!

3 More Images

Here you can find the schematic along with reference pictures of my finished circuit. Feel free to use them to create your own circuit.



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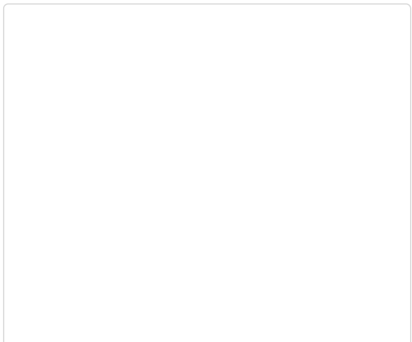
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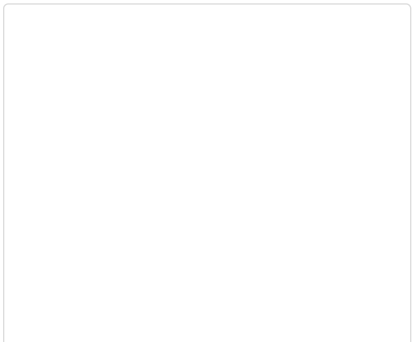
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LED-Matrix With Web Server (/LED-Matrix-With-Web-Server/) by Brocki
(/member/Brocki/) in LEDs

 95  3.3K



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1kW Arduino MPPT Solar Charge Controller (ESP32 + WiFi) (/DIY-1kW-MPPT-Solar-Charge-Controller/) by ASCAS

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