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8 Channel ESP32 Remote Control

SKU: EL140893

8 Channel ESP32 Remote Control

This is an 8-channel remote in a compact board suitable for remote ON/OFF applications using Bluetooth or Wi-Fi protocol. The board consists of an ESP32 module and 8 tactile switches connected to various GPIO. The circuit works with 3.3VDC power supply and a Li-Ion battery can be used to power the board. The onboard LED indicates the power. There is an onboard programming connector that helps users program the ESP32 module using Arduino IDE. The users have to write their own code to use the module, according to their requirements.

More information about ESP32 Module and Programming: https://randomnerdtutorials.com/getting-started-with-esp32/

FEATURES

- Power 3.3V DC
- On Board Programming Connector for ESP32
- On Board 8 Tactile Switches
- 2 X 3MM Mounting Holes
  PCB Dimensions 80.65 X 33.66 MM
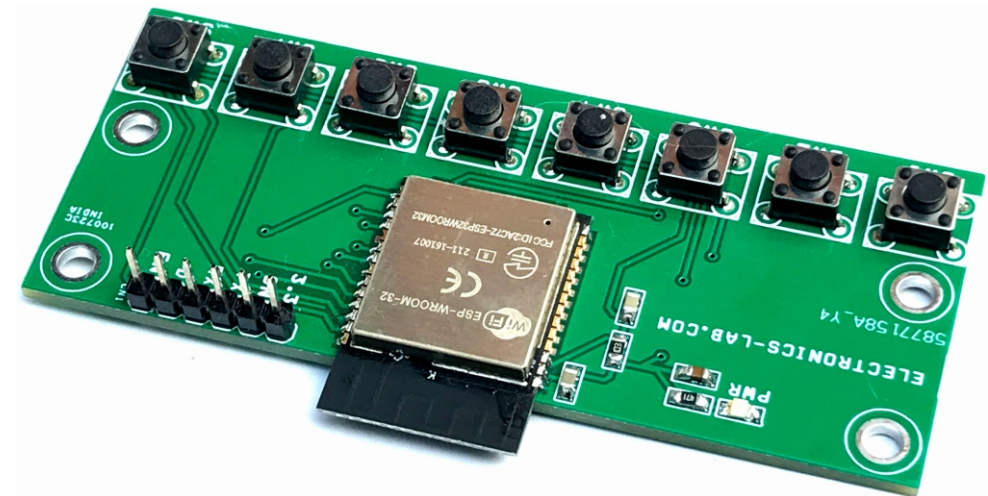
Connections and Other Details

- CN1 Programming and Power Input: Pin 1 = 3.3V DC, Pin 2 = GND, Pin 3 = TX, Pin 4 = RX, Pin 5 = GPIO0, Pin 6 = Enable
- SW1:GPIO15, SW2:GPIO16, SW3:GPIO17, SW4:GPIO18, SW5:GPIO19, SW6:GPIO21, SW7:GPIO22, SW8:GPIO23
- D1: Power LED

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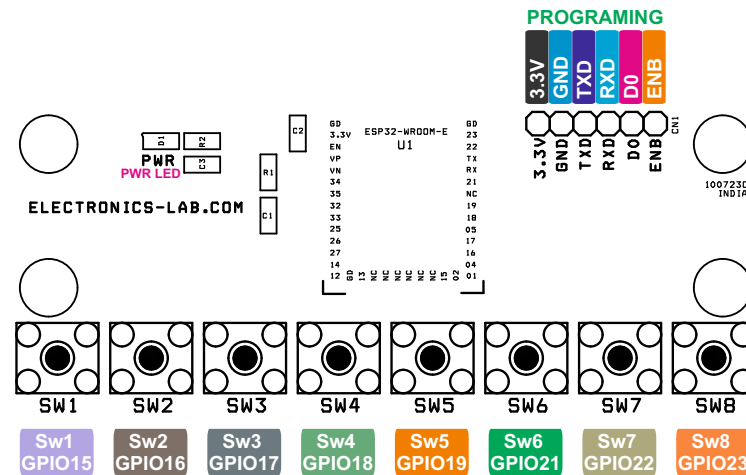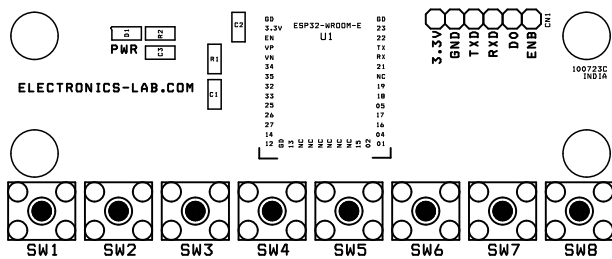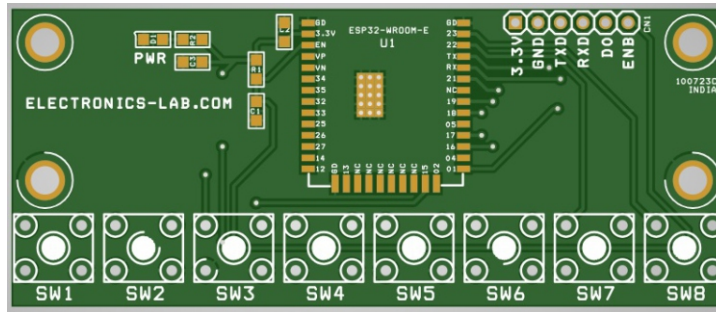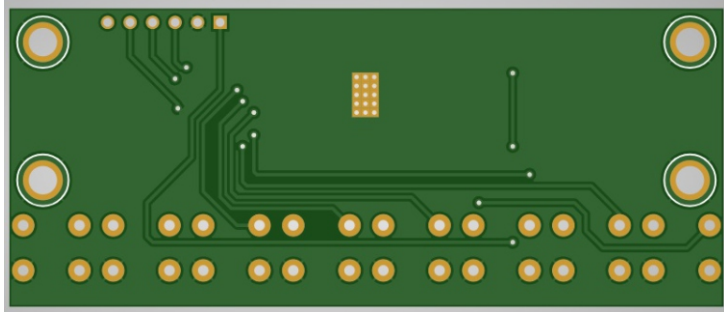
Schematic
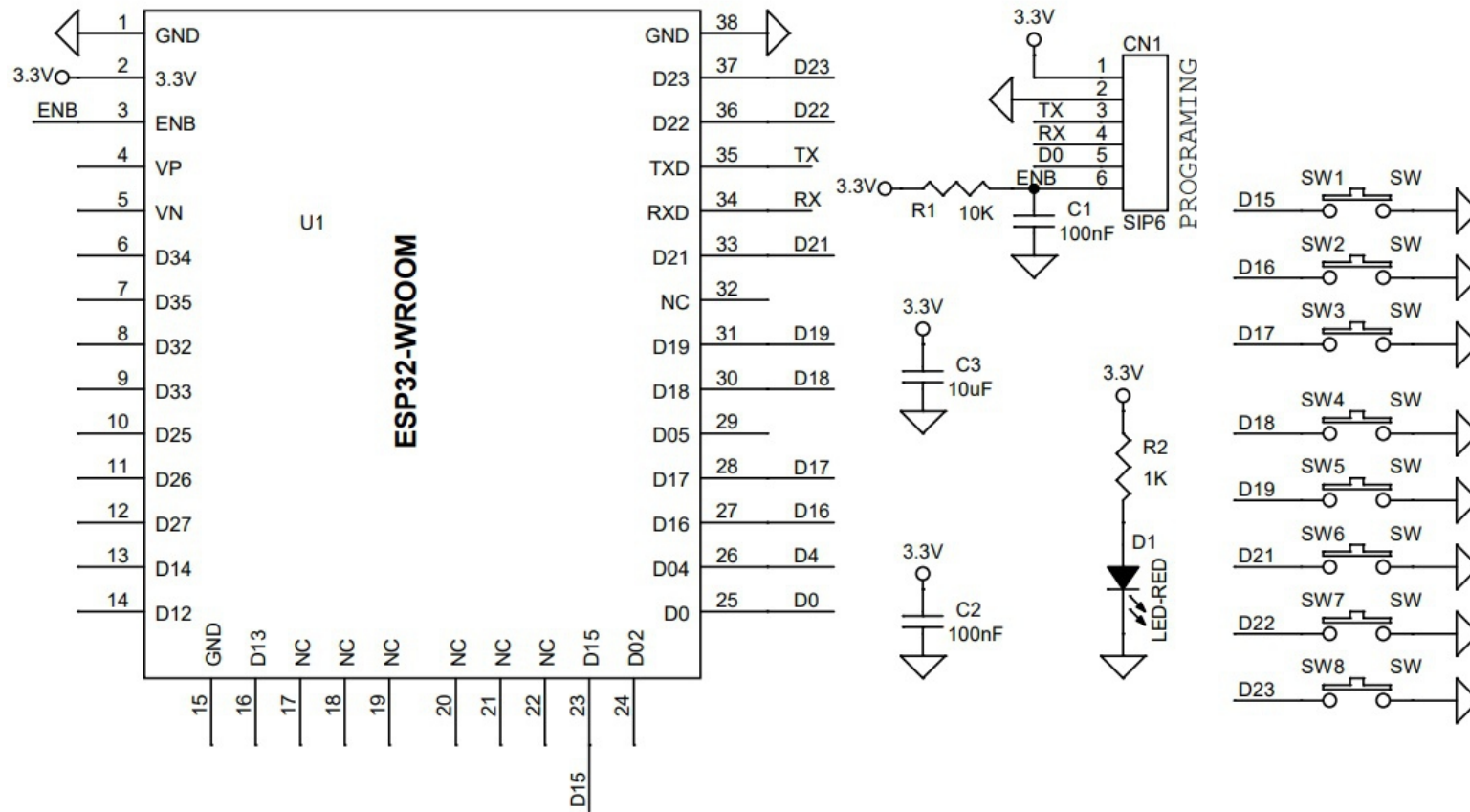
Connections

Connections and Other Details
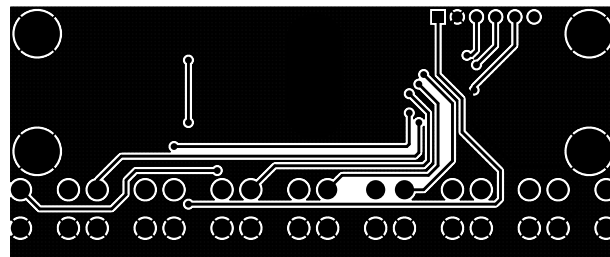
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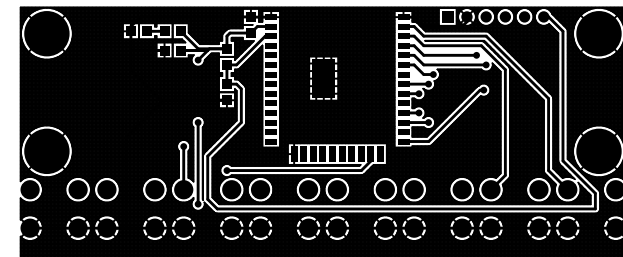- D1: Power LED

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PCB

PCB GERBER FILES AVAILABLE

SILK SCREEN TOP

BOTTOM LAYER

TOP LAYER

PCB DIMENSIONS 80.65 X 33.66 MM

Parts List

BOM						
NO.	QNTY.	REF.	DESC	MANUFACTURER	SUPPLIER	SUPPLIER PART NO
1	1	CN1	6 PIN MALE HEADER PITCH 2.54MM	WURTH	DIGIKEY	732-5319-ND
2	2	C1,C2	100nF/25V CERAMIC SMD SIZE 0805	YAGEO/MURATA	DIGIKEY	
3	1	C3	10uF/10V CERAMIC SMD SIZE 0805	YAGEO/MURATA	DIGIKEY	
4	1	D1	LED-RED SMD SIZE 0805	OSRAM	DIGIKEY	475-1278-1-ND
5	1	R1	10K 5% SMD SIZE 0805	YAGEO/MURATA	DIGIKEY	
6	1	R2	1K 5% SMD SIZE 0805	YAGEO/MURATA	DIGIKEY	
7	8	SW1-SW8	TACTILE SWITCH	NKK SWITCH	DIGIKEY	HP0215AFKP2-ND
8	1	U1	ESP32-WROOM-MODULE	ESP	DIGIKEY	ALIEXPRESS/EBAY

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Notes

APP
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Android App

DOWNLOAD

Android App launched in 2017 and has 100k+ downloads - rated with 4.5 stars.

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