

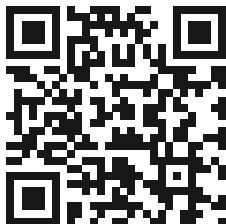
Simtelic



Electronic Siren

Thank you for purchasing this Simtelic DIY Electronic Kit.

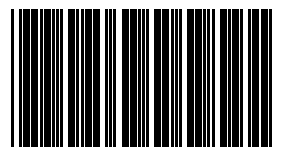
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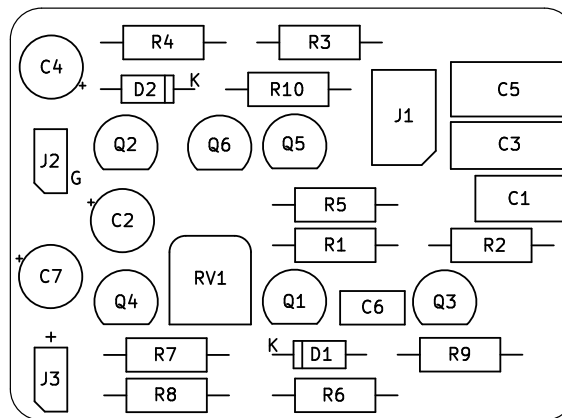
Introduction

This easy-to-build siren module is perfect for DIY lovers and model makers. With a simple 12V power source, it brings the thrilling sounds of police sirens, fire alarms, and ambulances to your DIY project!

- **Selectable Sounds:** Switch between iconic sound effects with a jumper for ultimate customization.
- **No Complicated Chips:** This module ditches complex ICs and relies on readily available, affordable NPN and PNP transistors for a straightforward build.
- **12V Power:** Simply connect to car battery or power supply unit for hassle-free operation.
- **Applications:**
 - Emergency alarm systems
 - Special vehicles
 - Fire detection systems
 - Security alarms
 - Doorbells

Identify connectors and adjustments

Top Side



J1 - Tone selector

J2 - Full-range speaker

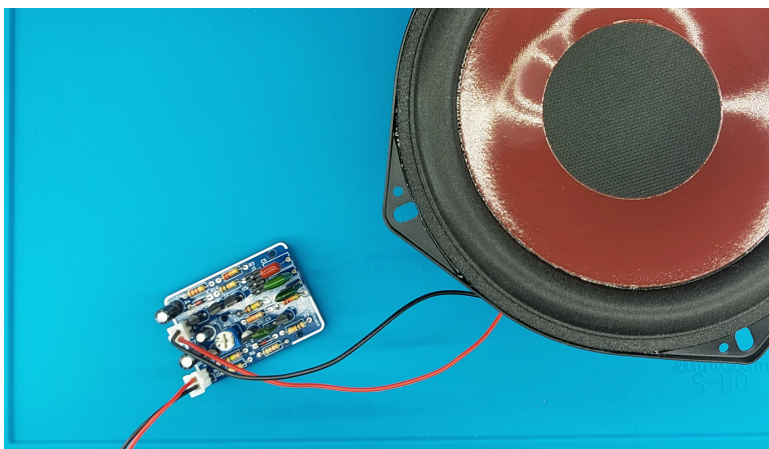
J3 - DC In

RV1 - Tone frequency adjustment

C1	0.033 μ F/25V	(THT)
C2	2.2 μ F	(THT)
C3	0.047 μ F	(THT)
C4, C7.....	10 μ F	(THT)
C5	0.1 μ F	(THT)
C6	0.01 μ F	(THT)
D1, D2.....	1N4148	(THT)
J1	2x3-Pin Header	(THT)
J2, J3.....	2-Pin Header	(THT)
Q1, Q2 and Q6.....	BC548	(THT)
Q3, Q4 and Q5.....	BC558	(THT)
R1	33k Ω	(THT)
R2, R3.....	22k Ω	(THT)
R4	2.2k Ω	(THT)
R5	100k Ω	(THT)
R6 and R8.....	6.8k Ω	(THT)
R7	150k Ω	(THT)
R9 and R10.....	10k Ω	(THT)
RV1	500k Ω (LOG) Potentiometer	

How to use

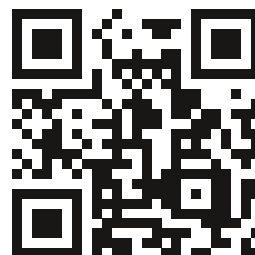
1. Connect the DC bulb with J1 3.5mm screw terminal
2. Attached the DC power source to J2 3.5mm screw terminal (please refer kit specifications)



Tone frequency can be adjusted using potentiometer

Tone can be selected from J1 jumpers

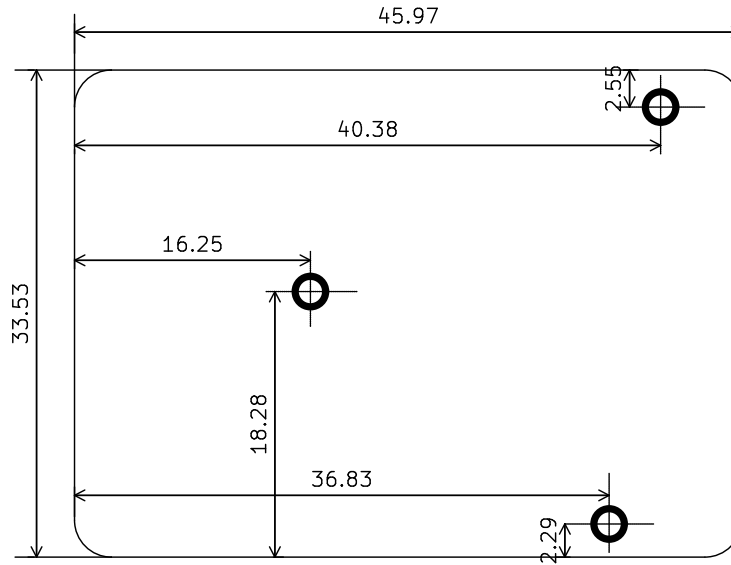
PCB assembly video : <https://youtu.be/T4CFrQYUqFA>



Scan for the video

Kit specifications

Power supply..... DC 9V - 12V / 1A
Audio output driver..... 32 Ω - 16 Ω , 3W full-range speaker
Dimensions..... 46mm x 33.5mm



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**Simtelic (Pvt) Ltd cannot be held responsible in the event of damage or injury resulting from
(incorrect) use of this electronic kit.**

The continuous improvement of its products is the policy of Simtelic (Pvt) Ltd who reserve the right to
improve design without notice.

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