

# flame m0dul kit

Acrylic glass m0dul for the *r0ket*

team r0ket/kiu/muccc

Rev C

10 EUR

## Remarks

- The kit contains more capacitors/resistors than needed (spare parts)
- The packaging of the capacitors/resistors are color coded

## Assembly

1. flame: Solder IC1/PCA9633. Be aware of the orientation! The slightly beveled side must be at the yellow line. The pin 1 indicator must be at the lower left corner.
2. flame: Solder resistors R1 and R3 (GREEN).
3. flame: Solder resistor R2 (RED)
4. flame: Solder capacitor C1 (BLUE).
  
5. LED: Solder the LED onto the adapter. One of the corners of the LED is marked. It has to point to the yellow dot.
  
6. flame: Put the LED board from the BOTTOM into the slot of the flame. The LED must point to the edge of the flame board. Solder one pad. Check that the back side of the adapter is flush with the edge of the slot. Solder the remaining pads.
  
7. flame: Attach acrylic glass. Etched side facing away from the m0dul. Fixate with screws. Heads on TOP - nuts on BOTTOM.
  
8. TOP: Solder connectors. Pins going to the bottom.

## Run

1. Turn *r0ket* off
2. Plug *flame* m0dul onto *r0ket*
3. Turn *r0ket* on
4. Shout out loud: "Booster ignition and liftoff!"
5. See <https://r0ket.badge.events.ccc.de/flame> for programming and IOdables

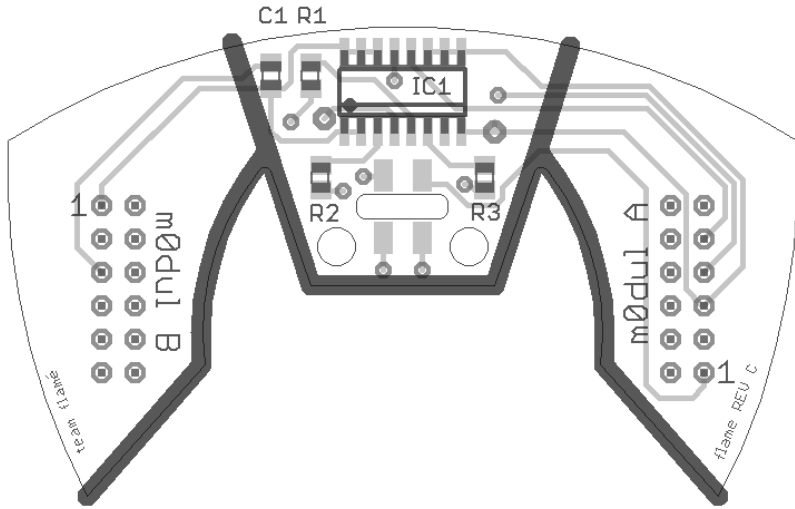
## Help

Dig through the *r0ket* wiki, join the IRC channel or find someone from *team r0ket* at *r0ket helpdesk*

## Links

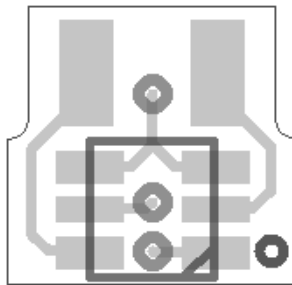
- <https://github.com/r0ket/flame>
- <https://r0ket.badge.events.ccc.de>

## flame board – TOP side



**IC1** PCA9633  
**C1** (BLUE)  
**R1,R3** (GREEN)  
**R2** (RED)

## LED board – Front side



**LED1**

**LED1** Osram LRTB G6TG