

Micromouse components list

1. H bridge- <https://evelta.com/h-bridge-motor-driver-ic-1.5a-sop-8/> H bridge motor driver IC SOP-8 Datasheet- <https://evelta.com/content/datasheets/359-BL5612.pdf>
2. Motor- # GA12-N20 12V 1000RPM Micro DC Metal Gear Reduction Motor- https://zbotic.in/product/ga12-n20-12v-1000rpm-micro-dc-metal-gear-reduction-motor/?gad_source=1&gclid=CjwKCAiAmfq6BhAsEiwAX1jsZ5e3O88qG8NDkbT0bHU2K06W45HV1pXp3ugoORw9xObzV9WtUFJ3wRoCPHwQAvD_BwE datasheet-
3. Motor with encoder 500 rpm gear ratio 30:1 rated current 40mA, stall current 1A-- https://robokits.co.in/motors/n20-metal-gear-micro-motors/n20-metal-gear-encoder-motor/ga12-n20-6v-500-rpm-all-metal-gear-micro-dc-encoder-motor-with-precious-metal-brush?srsId=AfmBOop46_ggaORufaxEpk0p9WgjGFxgG4g6K782mz7oQ7eS4OKStQTLCIs&gQT=2
4. <https://robu.in/product/ir-receiver-diode-tsop38238/?gQT=1> receiver
5. IR Emitter datasheet- https://cdn-shop.adafruit.com/datasheets/IR333_A_datasheet.pdf
6. TCRT5000 IR EMITTER/RECEIVER PAIR- <https://robu.in/wp-content/uploads/2022/09/Vishay-TCRT5000L-datasheet.pdf>
7. 3 way Dipswitch- https://evelta.com/dip-switch-3-way-slide-type-red-ds-03r/?utm_source=google&utm_campaign=19958243666&utm_medium=ad&utm_content=&utm_term=&gad_source=1&gclid=Cj0KCQiA4rK8BhD7ARIsAFe5LXIYixKd-WUgnB3WHcr8jJ5xm2eW1VBPw9W01p2Hk4Wdo7CXngp6GE4aAkW-EALw_wcB Datasheet- <https://evelta.com/content/datasheets/408-DS-Series.pdf>
8. Pushbutton- <https://sharvielectronics.com/product/tactile-push-button-switch-12x12x7-3mm/>
9. motor for propeller- <https://robu.in/product/65mm-blade-propeller-prop-8520-cw-ccw-coreless-brushed-motor-indoor-racing-drone-quad-copter/> (3.7V)
10. 12V battery- https://quartzcomponents.com/products/12v-1200mah-rechargeable-lithium-battery-with-warranty-for-gps-cctv-industrial-and-commercial-application?variant=43594813571306&country=IN&cy=INR&utm_medium=product_sync&utm_source=google&utm_content=sag_organic&utm_campaign=sag_organic?utm_source=google&utm_medium=FreeListings&gad_source=1&gclid=Cj0KCQiAhbi8BhDIARIsAJLOlud7CVXVUGHuGk0HCnHtH1EE9qVLhCeel78XtQ66bBOLSDcrkV2ftdoaAkUKEALw_wcB
11. 2.4V 1000RPM (30mA to 60mA continuous current) DC motor with encoder- https://robu.in/product/n12-2-4v-1200rpm-metal-gear-motor-with-encoder/?gad_source=1&gclid=Cj0KCQiAhbi8BhDIARIsAJLOludJV8e7JD-YfhLA6xfmyAD6LBeOsG8cya1h2qJX0hVGUeo08T7Z5WcaAinjEALw_wcB

12. If 12V motor used, then motor driver- <https://evelta.com/content/datasheets/035-DRV8212PDSGR.pdf>
13. 5V 1000rpm motor- [https://robu.in/product/n12-5v-1200rpm-metal-gear-motor-with-encoder/datsheet- https://robu.in/wp-content/uploads/2023/09/9-GM12-N20VA.pdf](https://robu.in/product/n12-5v-1200rpm-metal-gear-motor-with-encoder/datsheet-https://robu.in/wp-content/uploads/2023/09/9-GM12-N20VA.pdf)
14. propellers- https://robu.in/product/orange-hd-1209-31mm-pc-4-blade-0-8mm-propellers-4cw4ccw-clear-gray/?gad_source=1&gclid=Cj0KCQiAhbi8BhDIARIsAJLOlufvrvu-CINvUlt_1LLZ2rWdCIMQDTQjQnliJGslgggtf4yAK8aLL0MaAo0ZEALw_wcB alternative link- https://evelta.com/gemfan-31mm-1209-4-blade-propeller-1-5mm/?utm_source=google&utm_campaign=19958243666&utm_medium=ad&utm_content=&utm_term=&gad_source=1&gclid=Cj0KCQiAhbi8BhDIARIsAJLOludh3u3esXF5R3UrbBPkih9h5vFvHV7R6O7RRK_oAMoOQQtlusC6w_EaAsYHEALw_wcB
15. stm32f401ret6 micrcontroller LQFP64- https://robu.in/product/stm32f401ret6-stmicroelectronics-arm-mcu-dynamic-efficiency-line-stm32-family-stm32f4-series-microcontrollers-arm-cortex-m4/?gad_source=1&gclid=Cj0KCQiAhvK8BhDfARIsABsPy4hH8S87xLr6pLHOOZSaWtQhZBSh9zyMabLykb46vgbblonQRwl2xMwaAvf5EALw_wcB
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