

Operation Description for R/C Catapult (49MHz)

The receiver for R/C Catapult is powered by 1 x 9.6V rechargeable battery. The radio frequency channel is 49.860MHz. When received a forward, backward, turn right, turn left or upside down signal, it will move to the corresponding direction or will make upside down itself.

Referring to the receiver circuit design, the circuit description is listed below:

- Q1 and its associated circuit act as a RF amplifier.
- Q2, U1 and its associated circuit act as a decoder.
- D1 and its associated circuit act as a voltage regulator.
- Q5, Q6, Q9, D3 and its associated circuit act as a motor driver for M1.
- Q3, Q4, Q8, D2 and its associated circuit act as a motor driver for M2.
- D6, D7, Q10 and its associated circuit act as a motor driver for M3.