

## Mecanum Car Commands

Use Wi-Fi to establish a connection between the Mecanum Car and a client device.

### Send Command & Receive Response

Mecanum Car IP: **192.168.10.1** UDP Command Port: **4444** UDP Status Port: **4445**

- Step 1: Set up a UDP client on the client device to send and receive messages from the Mecanum Car via the same port.
- Step 2: Send any available command to the Mecanum Car to control it.

### Control Commands

Command	Description	Possible Response
rc x y z	Apply speed to x y or z direction. x (backward - forward) = -127 to 127 y (left - right) = -127 to 127 z (rotation ccw - cw) = -127 to 127	-/error
keepalive	Keeps connection to Mecanum Car alive. Prevents timeout without changing last command.	ok/error
stop	Set all directions to 0.	ok/error

### Status Message — Data Type: String

**Data string received every second while controlling via WiFi**

"batV:%.2f,batP:%d,mA:%d,mB:%d,mC:%d,mD:%d,:\n"

#### Description

"batV" = Measured voltage of battery in Volt

"batP" = Charge of battery in Percent

"mX" = Duty cycle of motorX in Percent