

(Forked from [https://github.com/Factor-Robotics/odrive\\_ros2\\_control](https://github.com/Factor-Robotics/odrive_ros2_control))

# odrive\_ros2\_control

ENGLISH / [中文](#)

## Introduction

ODrive driver for ros2\_control

!Driver adapted for the T-bot mechanism (combined motion) and for the motion compensation algorithm.

## Prerequisites

- ROS Foxy
- ODrive Firmware v0.5.3

## Documentation

- [Wiki](#)

## Done

- [x] Support native protocol on USB
- [x] Support position, speed, torque commands
- [x] Support position, speed, torque feedbacks
- [x] Support using multiple ODrives
- [x] Support smooth switching of control modes
- [x] Unit conversion adheres to [REP-103](#)
- [x] Support using any or both of axes on each ODrive
- [x] Allow multiple axes running in different control modes
- [x] Provide sensor data (error, voltage, temperature)
- [x] Auto watchdog feeding

## Todo

- [ ] Support serial port and CAN
- [ ] Support feedforward control inputs
- [ ] Automatic configuration of ODrives based on URDF and YAML files