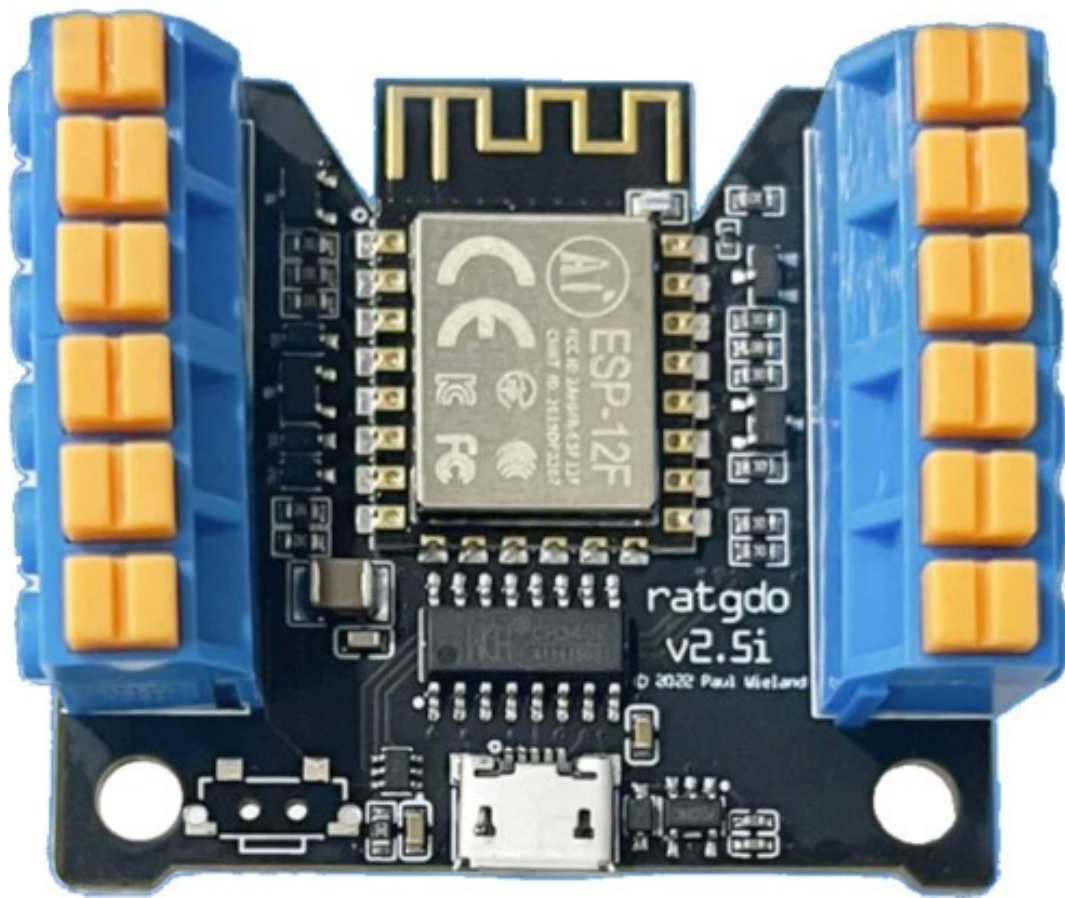


# ratgdo Installation and Usage Guide



**Version:** 1.0.2  
**Date:** Thursday, February 15, 2024  
**Authors:** Alan Chow

chowmainsoft

# Contents

<b>Overview.....</b>	<b>3</b>
<b>Features.....</b>	<b>4</b>
<b>Hardware and Firmware Setup.....</b>	<b>5</b>
<b>Setup Driver.....</b>	<b>5</b>
Requirements.....	5
<b>Additional optional setup.....</b>	<b>6</b>
<b>FAQ.....</b>	<b>7</b>
What are the Requirements for this driver?.....	7
Why is this product so exciting?.....	7
What garage doors will this work on?.....	7
How does the motion sensors and obstruction sensors work?.....	7
What is the remote control lock?.....	7
Help i cannot use my garage door RF remote anymore.....	8
How do i install ratgdo hardware?.....	8
How does the Control4 driver talk to ratgdo?.....	8
Do i need to install reed switches for garage door position feedback?.....	8
Where can i purchase ratgdo?.....	8
Do you offer any other cool drivers?.....	8
I want to try this driver out before buying it?.....	8
<b>Developer Information.....</b>	<b>9</b>
<b>Support.....</b>	<b>10</b>
Ticket / Live Chat Support.....	10
Phone Support.....	10
Driver Documentation.....	10
<b>CHANGELOG.....</b>	<b>11</b>
Version 1.0.2 - 16-FEB-2024.....	11
Version 1.0.1 - 13-FEB-2024.....	11
Version 1.0.0 - 12-JAN-2024.....	11

## Overview

ratgdo is a WiFi control board for your garage door opener that works over your local network. No subscriptions required.

ratgdo connects to your door opener with three simple wires and works with virtually any residential Chamberlain or Liftmaster manufactured garage door opener and also offers basic support for other brands which use dry contacts to control the door.

It can control the door and report back the actual status of the door (closed, opening, open, closing). For Security + 2.0 door openers, the obstruction sensors, light, wireless lockout and even motion sensing are also integrated.

As a local based integration if there is internet disruptions you will still have control / feedback over your garage door through ELAN.

## Features

- IP Control
- Custom Page for control
- Compatible with Lighting Door Control device (note Input Logic must be set to Reverse)
- Control
  - Garage Door Open
  - Garage Door Close
  - Garage Door Trigger
  - Garage Door Stop
  - Remote Lock
  - Remote Unlock
  - Garage Light (on/off)
  - Garage Door (off is close, on is open)
- Feedback
  - Garage Door Open
  - Garage Door Opening
  - Garage Door Close
  - Garage Door Closing
  - Garage Door Position
  - Motion Sensing (if wall control panel has motion detector built in)
  - Obstruction (if Obstruction Detector IR/PE Beams installed)
  - Light State
  - Wireless Remote Lock State

# Hardware and Firmware Setup

1. Before connecting the ratgdo to your garage door motor you will need to flash the unit with the ESPHome firmware via the instructions in the link below.

[ratgdo ESPHome firmware](#)

2. Once the unit is flashed please reserve the IP address of ratgdo on your network.
3. After flashing the unit you can connect it to your garage door motor.

[ratgdo Wiring Instructions](#)

## Setup Driver

### Requirements

- ELAN Core Version 8.8 is the minimum required.

**Please make sure you follow the Hardware and Firmware Setup steps onlined above before proceeding**

**IMPORTANT - Perform Licencing Steps as outlined first**

1. Click on 'Lighting'
2. Right click on 'Lighting Controllers'
3. Click on '+ Add new Lighting Controller'
4. Click on 'Import'
5. Browse to the folder you have downloaded the driver. Select the 'ratgdo.EDRVC' file
6. Click on 'ratgdo' under Lighting Controllers
7. Enter in the 'Activation Key' (or leave it for 90 day trial).
8. Type in the 'IP Address' of the ratgdo device (note must be on a reserved IP address).
9. The 'Connection Status' should now change to 'Connected'
- 10.Right click on 'Custom Pages'
- 11.Click on '+ Add new Custom Page'
- 12.Name the page 'Garage Door'
- 13.Right click on 'Garage Door' and click on 'Import from File...'
- 14.Browse to the folder you have downloaded the driver. Select the 'ratgdo.ECV' file
- 15.Go through each interface (Large, Small, HHR and HR10) and map each control to the relevant control in the driver. Eg Position Bar Gauge connects to ratgdo: POSITION
- 16.Congratulations you have setup the ratgdo driver for ELAN.

Note: The custom pages include Motion Sensor and IR Beam sections. These are optional extras that require additional hardware (Motion Sensors are built into certain control panels - eg 889LM).

If you do not have these hardware it is recommended you delete these sections from the custom pages.

## Additional optional setup

This driver also supports the Lighting Door Controls. You can add this in if you wish via the following steps.

1. Click on Security
2. Right click on 'Door Controls'
3. Select '+ Add new Door Control'
4. Select 'Lighting'
5. Click on 'Lighting'
6. Rename 'Lighting' to 'Garage Door'
7. Click on the 'Lighting Device' drop down box and select 'Garage Door'
8. Click on the 'Input Logic' drop down box and select 'Reverse'
9. Congratulations you have setup the Lighting Garage Door Controller.

## FAQ

### What are the Requirements for this driver?

- ELAN Core Version 8.8 minimum

### Why is this product so exciting?

ratgdo is a WiFi control board for your garage door opener that works over your local network. No subscriptions required.

ratgdo connects to your door opener with three simple wires and works with virtually any residential Chamberlain or Liftmaster manufactured garage door opener and also offers basic support for other brands which use dry contacts to control the door.

It can control the door and report back the actual status of the door (closed, opening, open, closing). For Security + 2.0 door openers, the obstruction sensors, light, wireless lockout and even motion sensing are also integrated.

As a local based integration if there is internet disruptions you will still have control / feedback over your garage door through ELAN.

### What garage doors will this work on?

Any residential door opener manufactured Chamberlain/Liftmaster which has a yellow learn button except for wall mounted jackshaft openers with model # 8500, 8500C, RJ020 or RJ020C

A matrix of known / tested compatible garage doors can be found via link below.

[ratgdo wiki](#)

### How does the motion sensors and obstruction sensors work?

- Motion detection requires a wall control panel with a built in motion detector such as the 889LM.
- Obstruction Status requires Obstruction Detection Beams be installed. This can be purchased from the garage door manufacturer.
- The ratgdo custom page includes the motion sensor and obstruction sections. If these are not available on your product configuration then please delete the motion sensor or irbeam sections of the custom page from your project.

### What is the remote control lock?

This feature allows you to disable the RF remote control from controlling the garage door. This is useful if the car is parked outdoors or if it is loaned out to someone whom the homeowner does not want to give access to the garage to.

## **Help i cannot use my garage door RF remote anymore.**

You have locked the remote control. Unlock it via the driver or via the ratgdo web server.

## **How do i install ratgdo hardware?**

Please see link below instructions. Take note that you need to pre-install the ESPHome firmware as per instructions below.

- [ratgdo ESPHome firmware](#)
- [ratgdo Wiring Instructions](#)

## **How does the Control4 driver talk to ratgdo?**

The driver will communicate to ratgdo via IP. Please ensure that the ratgdo is put on a static or reserved ip address.

## **Do i need to install reed switches for garage door position feedback?**

ratgdo provides full two way feedback on the motor position. As such we know at any time if it is fully open, partially open or fully closed. As such no reed switches are required.

## **Where can i purchase ratgdo?**

This driver is designed to work with ratgdo with the ESPHome firmware installed. You can order the hardware from the following website

- [ratgdo website](#)
- [ratgdo ESPHome firmware](#)

## **Do you offer any other cool drivers?**

ELAN is a major part of our business. We develop new drivers all the time. You can see all of our drivers on our website (<https://chowmain.software>). Sign up to our newsletter to get notified when new drivers are released.

## **I want to try this driver out before buying it?**

All Chowmain drivers for ELAN come with a 90 day trial.



## Developer Information



Copyright © 2024 Chowmain Ltd. <http://www.chowmainsoft.com>

All information contained herein is, and remains the property of Chowmain Ltd and its suppliers, if any. The intellectual and technical concepts contained herein are proprietary to Chowmain Ltd and its suppliers and may be covered by U.S. and Foreign Patents, patents in process, and are protected by trade secret or copyright law. Dissemination of this information or reproduction of this material is strictly forbidden unless prior written permission is obtained from Chowmain Ltd.

Information stated in this document is current as of July 2020 and may change. For latest information please visit <http://www.chowmainsoft.com>

# Support

## Ticket / Live Chat Support

We provide ticket based support and live chat support for those who can't contact us via phone. Click the button below to visit our online helpdesk.

Support Centre	Hours of Operation	URL
American Support Desk	8:30AM – 4:30PM Mountain Time	<a href="https://help.drivercentral.io/">https://help.drivercentral.io/</a>

## Phone Support

Support Center	Hours of Operation	Phone Number
Australian Support Desk	6:30AM – 5:30PM Australian Eastern Time	+61 3 9028 6999

## Driver Documentation

All of our drivers come with detailed instructions on how to install and configure the driver for use in different projects. Please refer to the documentation included with the driver you downloaded, or [contact us](#) if you are unable to locate the documentation for your driver.

# CHANGELOG

## **Version 1.0.2 - 16-FEB-2024**

- if ratgdo does not send data it will automatically reconnect after 60 seconds
- added drop down to enable discrete open and discrete close commands rather than toggle (please test out in ratgdo web interface to see if open and close commands work before setting the driver's drop down to true)

## **Version 1.0.1 - 13-FEB-2024**

- Fixed issue where setting IP address does not connect to event stream until reboot or driver update.
- Added Status Colors

## **Version 1.0.0 - 12-JAN-2024**

- Initial release