RidgeRelay

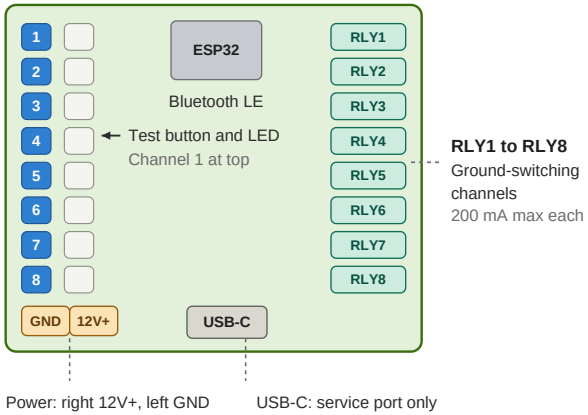
8-Channel Relay Control Board

Quick start guide

SKI LLC

Meet the board

RidgeRelay gives you **8 trigger channels** controlled from the RidgeRelay app over Bluetooth LE. Each channel switches its terminal to ground to trigger an automotive relay, and the relay handles the heavy load (up to 40A). Eight on-board test buttons toggle the channels directly, so you can check your install without pulling out a phone.

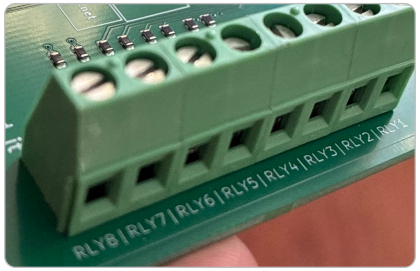


1 Power it

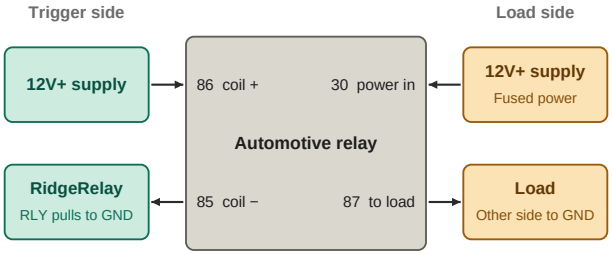
- Feed the harness through the gland. Right terminal: **12V+**. Left terminal: **GND**.
- Power it from a fuse tap (fuse included). Chassis ground is shared, so no separate ground run is needed for the relays.
- Input range: **5V to 24V**.
- The board always starts with every channel off.

2 Wire your relays

- Connect one side of each relay coil to **12V+** and the other side to that channel's **RLY** terminal (RLY1 to RLY8).
- When a channel is on, its terminal pulls to ground and the relay energizes.
- Max **200 mA** per channel.



Relay hookup



3 Test it

- Press a button to toggle its channel on or off.
- A **green LED** means the board is commanding that channel on. It shows the command, not the state of the circuit. No LEDs means every channel is off.
- To verify a channel, set a multimeter to **continuity** or **resistance** and connect it between GND and the channel's RLY terminal, both on the top screw terminals. On: continuity, about **0 Ω**. Off: open.

4 Pair with the app

1. Hold buttons **1 and 6** until the LEDs run a blue back-and-forth sweep.
2. Open the RidgeRelay app and go to pairing.
3. Select the board that shows as **open** to pairing. Every board appears as “SKI Relay” followed by a short ID, and the open one is yours.
4. When it pairs, the LEDs stream red, yellow, green from top to bottom.
5. No Bluetooth PIN or classic pairing is needed, since it uses BLE.



Pairing mode
blue sweep, back and forth
Paired
red, yellow, green stream

Strips show the LEDs from top to bottom on the board.

Troubleshooting

- **LED lit, load not on:** the LED only confirms the command. Check the relay coil wiring, the relay's fuse and the ground, then run the multimeter test.
- **Board not in the app:** confirm it is powered and showing the blue sweep, then refresh the list.
- **USB-C port:** service port for firmware updates only.

5 Use the app



- **Tap a tile** to toggle that relay. Channel 1 on the board is Relay 1 in the app, and so on up to 8.
- **Rename** each relay and pick an icon in Settings, so “Relay 1” becomes “Ditch Lights.”
- **Choose your own dash color**, or leave it on the default. Same on iOS and Android.
- **CarPlay and Android Auto** show your relays on the car's dash screen. Your phone must be paired with the board and the app must be running.

Support

sales@ridgerelay.net
www.ridgerelay.net

iOS: apps.apple.com/us/app/ridgerelay/id6467876360
Android: coming soon

Specs at a glance

Input voltage	5 to 24 V DC
Channels	8, switch to ground (low side)
Per-channel current	200 mA max sink
Relay load	Up to 40 A, set by your relay
Wireless	Bluetooth LE
Control	RidgeRelay app and 8 test buttons
In-car display	Apple CarPlay, Android Auto
Power-up state	All channels off
USB-C port	Service only (firmware updates)
Board version	BOARDV4-B

Specifications are subject to change without notice.

Safety

- Fuse the power feed, and wire with the battery disconnected.
- Do not exceed 200 mA per channel or a 24V supply.
- Not for use in safety-critical systems such as brakes, steering or airbags.
- Auxiliary lighting may be restricted on public roads. Follow local laws.
- Do not operate the app while driving.

Regulatory

Contains transmitter module.
FCC ID: 2AC7Z-ESPS3MINI1

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Channel log

Channel	Name in app	What it controls
RLY1		
RLY2		
RLY3		
RLY4		
RLY5		
RLY6		
RLY7		
RLY8		

Limited warranty

SKI LLC warrants this product to be free from defects in materials and workmanship for **[warranty period]** from the date of purchase.

This warranty does not cover damage caused by misuse, incorrect wiring, operation outside the stated ratings, or modification.

Our liability is limited to repair or replacement of the product. To the extent permitted by law, SKI LLC is not liable for incidental or consequential damages. The software is provided “as is.”

For warranty service, contact **sales@ridgerelay.net**.

Notices

Apple, CarPlay and App Store are trademarks of Apple Inc., registered in the U.S. and other countries. Android Auto and Google Play are trademarks of Google LLC. Other names are the property of their respective owners.

Recycle. Do not throw this product in household trash. Take it to an electronics recycling program.

RidgeRelay is a product of SKI LLC.
www.ridgerelay.net

Model BOARDV4-B · Guide rev 1.0, October 2026
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