boneIO Black

boneIO Black — from the electrical cabinet to a working home in a few steps, without programming.

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Welcome to the boneIO Black documentation

boneIO Black is a DIN-rail controller that **works as soon as it is powered** — out of the box its inputs drive its outputs (for example IN01 → OUT01), even without a network. Everything else you set up in a web browser: no programming and no editing files.

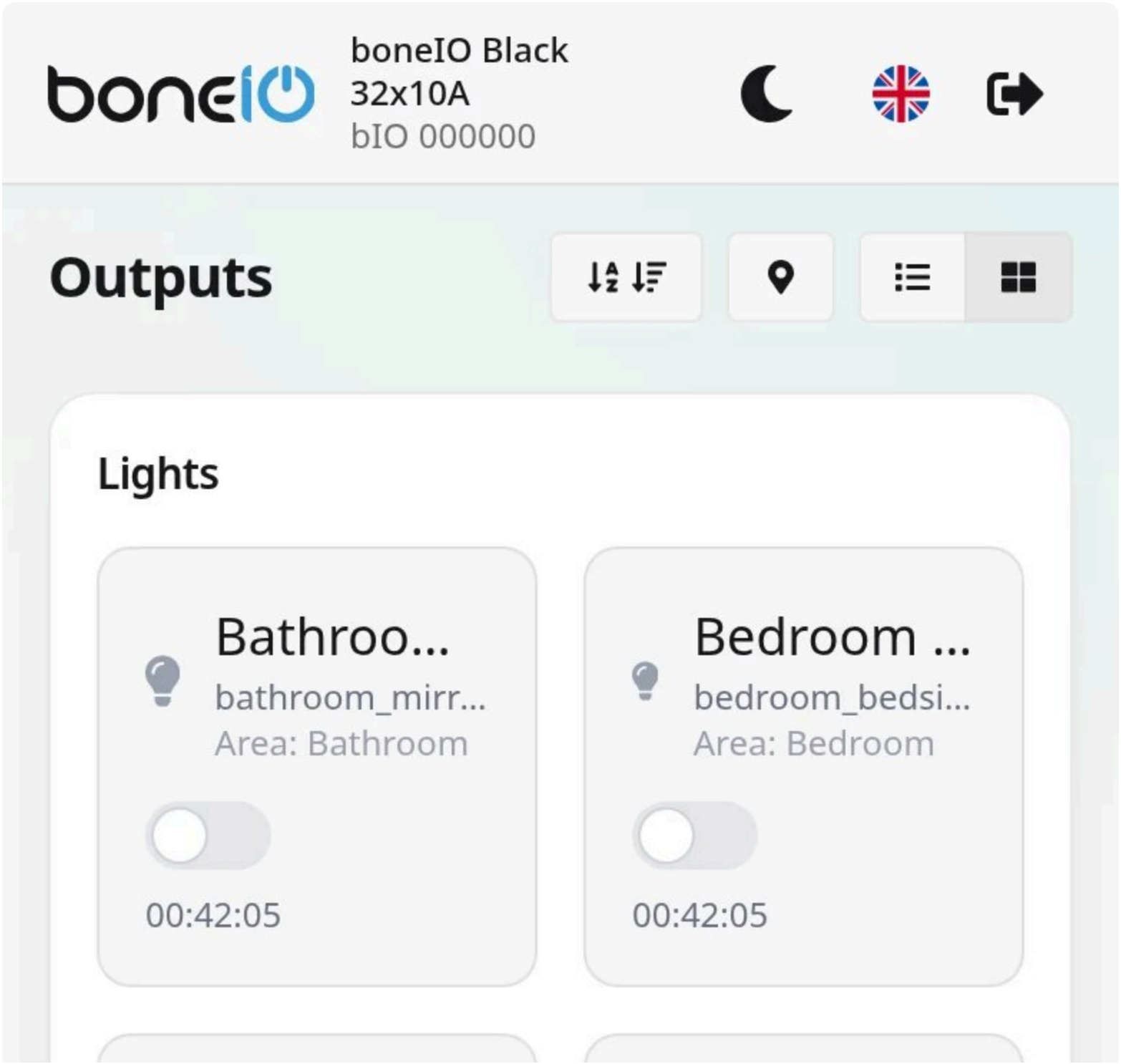
Moving to version 1.6? Start with What's new in 1.6 — what changes for you, and what to do before and after the update.

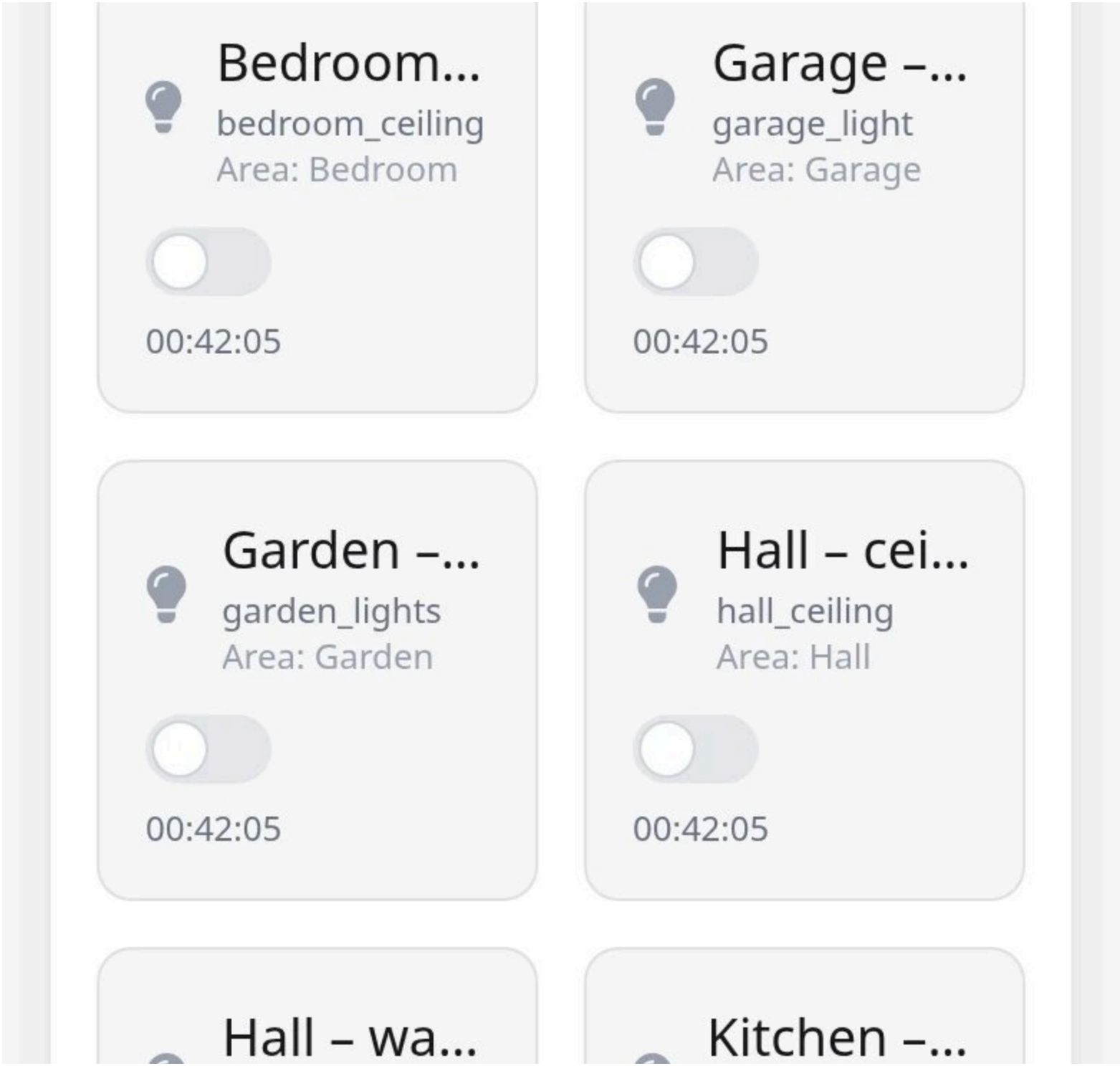
From the box to a working controller

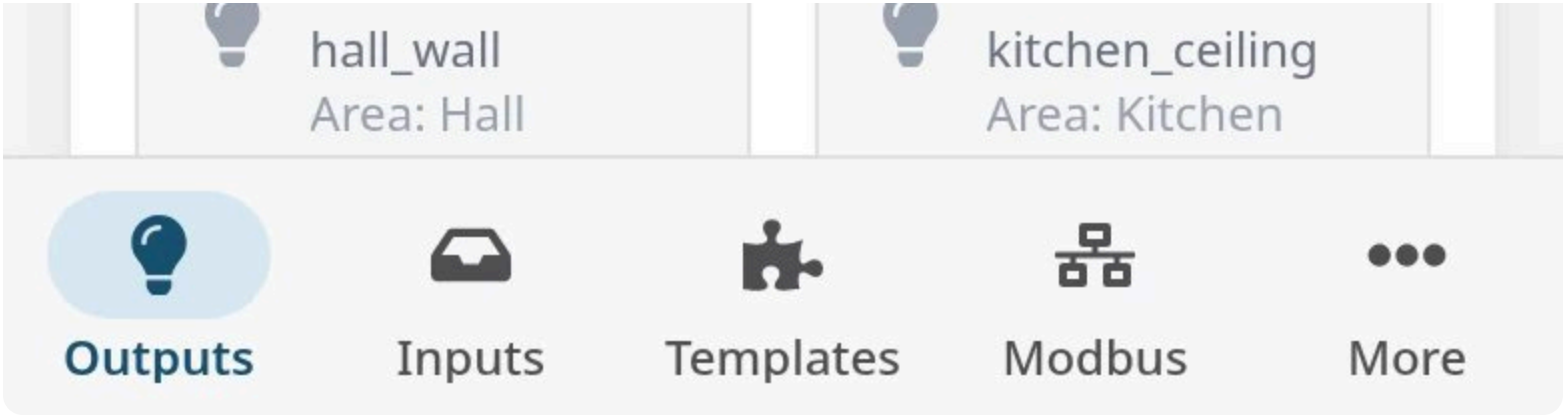
1. **Mount and power it.** DIN rail, 24 V DC — preferably from a UPS or buffered power supply. Hardware installation: 32x10A · Cover · Cover Mix.
2. **Connect it to the network and open the panel.** An Ethernet cable, then `https://<controller IP>:8443` in a browser — Connect to your boneIO.
3. **Go through the short wizard.** An administrator account and a few questions about the controller — First-time setup.

4. **Name your inputs and outputs, assign rooms.** In the panel's forms — Naming inputs, Areas.
5. **Connect Home Assistant.** The controller announces its entities over MQTT — they appear in Home Assistant with no manual setup, grouped by room — Home Assistant connection.

From there you can add actions to buttons, covers, schedules and everything described in boneIO Black App.


boneIO Black
32x10A
bIO 000000
Outputs
Lights
Bathroo...
bathroom_mirr...
Area: Bathroom
00:42:05
Bedroom ...
bedroom_bedsi...
Area: Bedroom
00:42:05


Bedroom...
bedroom_ceiling
Area: Bedroom
00:42:05
Garage –...
garage_light
Area: Garage
00:42:05
Garden –...
garden_lights
Area: Garden
00:42:05
Hall – cei...
hall_ceiling
Area: Hall
00:42:05
Hall – wa...
Kitchen –...



Choose your controller

Inputs and buses are the same on every boneIO Black controller; the outputs and how they are wired differ.

boneIO Black 32x10A
49 digital inputs and 32 relay outputs — whole-home automation.

boneIO Black Cover
A dedicated controller for up to 16 blinds or shutters.

boneIO Black Cover Mix
8 blinds and 16 lighting circuits.

Have a boneIO Black 24x16A? It is discontinued; its guide stays available.

What the app can do

The boneIO app is the same on every boneIO Black controller — only the factory configuration differs.

Lights, sockets, covers

Buttons and sensors

Outputs, output groups, time-based covers and venetian blinds with tilt, gates.

Single, double and long press, reed switches, motion sensors, temperature, Modbus.

On its own, on time

Schedules at a clock time or with the sun, virtual switches, presence simulation.

More than relays

Alarm, irrigation, thermostat, energy counters, Node-RED, MQTT and Loxone.

Secure from the first start

The panel over HTTPS, accounts with roles, no default passwords, and a page that tells you what is left to fix.

Looks after itself

boneIO and whole-system updates from the panel, backups, diagnostics, recovery mode.

Version 1.6 is our work of adapting boneIO Black towards the EU Cyber Resilience Act (CRA) — details in the release notes.

What's new in 1.6 >

Version 1.6 in plain words — what you get, what you need to do after the update, and where things moved.