


vhfBridge

Module to connect Ajax security systems to third-party VHF transmitters.

The Ajax hub is required for operation. Find the detailed information on the official website:

 <https://ajax.systems/support/devices/vhfbridge>



Grade 2 EN 50131



Can transmit all types of Ajax events to the VHF transmitters¹



Pairing via QR code.



8 positive/negative trip outputs.



Remote setup and control.



Power supply for VHF transmitters.



Tampering alarm.



Up to 75 hours on backup battery².

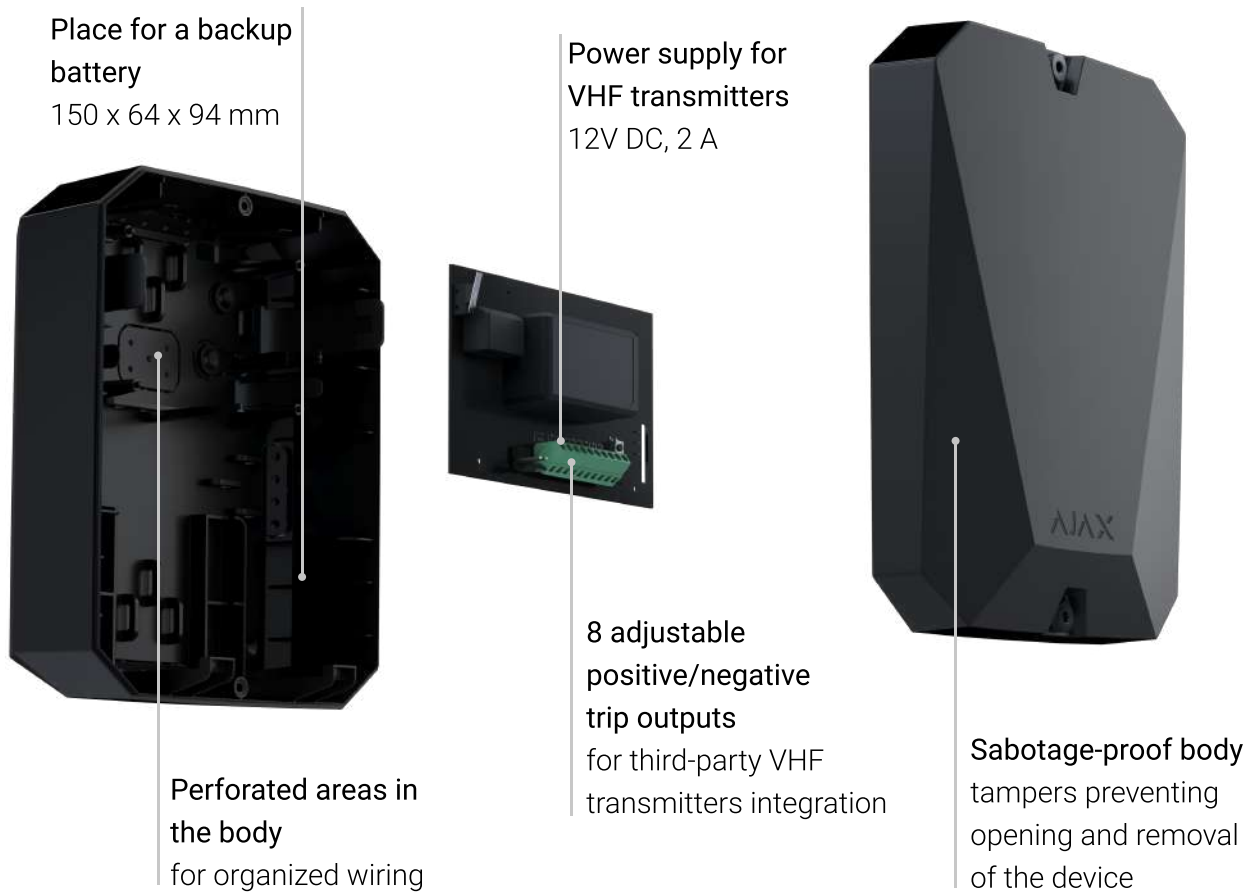


Supplied in two configurations: with or without its body.

¹ – vhfBridge doesn't transmit visual alarms verifications.

² – a backup battery not included.

Reliability and simplicity by design



The device can be supplied in two configurations: with or without its body.

Maximum compatibility

Receive only the events you need in a supported format. vhfBridge connects to any VHF transmitters with relay or positive/negative trip outputs. To provide more flexibility, we have implemented an option for you to configure each device output in a mobile or desktop app.

Use the PRO app to choose which output will communicate with one of 16 types of events, its type (positive/negative trip outputs), and pulse duration. Please, note that vhfBridge doesn't transmit visual alarms verifications.

Tech Specs

General

| | | | |
|-----------------------------------|-----------------------------|------------------------------------|--------|
| Colour | white, black | Installation | indoor |
| Compatibility with control panels | Hub 2, Hub Plus, Hub 2 Plus | Compatibility with range extenders | + |
| Compliance | EN 50131 (Grade 2) | | |

Communication

| | | | |
|------------------------|--|--|---------------|
| Communication protocol | Jeweller: two-way encrypted communication of events and alarms | Radio communication range | up to 1,800 m |
| Frequency band | 868.0–868.6 MHz 868.7–869.2 MHz 863.0–870.0 MHz (depends on the region of sale) | Maximum effective radiated power (ERP) | ≤ 25 mW |

Integration with third-party VHF radio transmitters

| | | | |
|-------------------------------------|----|-----------|--|
| Number of zones | 8 | Zone type | positive/negative trips set by users in the Ajax app |
| Visual alarms verifications support | no | | |

Power supply

| | | | |
|--|--------------------------|--------------------------|--|
| Main power supply | 110–240V AC | Backup power supply | 12V DC (battery not included) |
| Power supply output for VHF transmitters | 10.5–15.5V DC, up to 2 A | Recommended battery type | 12V battery with a capacity of 4 or 7 Ah |

Antisabotage protection

| | | | |
|-------------------|---|----------------------------|--------------------------------------|
| Tampering alarm | + | Pings | 12–300 sec (set by users in the app) |
| Frequency hopping | + | Protection against forgery | + |

Body and complete set

| | | | |
|-----------------------------|--|--------------------|---|
| Operating temperature range | from –10°C to +40°C | Operating humidity | up to 75% |
| Overall dimensions | 196 × 238 × 100 mm (with body) 145 × 89 × 51 mm (without body) | Weight | 840 g (with body) 165 g (without body) |
| Complete set | vhfBridge Power cable 12V battery connection cable Installation kit Body (depending on a set) Quick Start Guide | | |