

vhfBridge Jeweller

Tech specs

vhfBridge Jeweller (without casing)

Wireless module for connecting an Ajax system to third-party VHF transmitters



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Device compatibility

Check

Communication

Jeweller communication technology

Proprietary wireless communication technology to transmit commands, alarms, and events.

Key features:

- Two-way communication.
- Advanced anti-sabotage.
- Block encryption featuring a dynamic key.
- Instant notifications.
- Remote control and configuration in Ajax apps.

Learn more >

Frequency bands

866.0–866.5 MHz

868.0–868.6 MHz

868.7–869.2 MHz

905.0–926.5 MHz

915.85–926.5 MHz

921.0–922.0 MHz

Depends on the sales region.

Maximum effective radiated power (ERP)

up to 25 mW

Radio signal modulation

GFSK

Radio communication range

up to 1,800 m

Between the module and a hub (or a range extender) in an open space.

Calculate radio communication range at the facility >

Encrypted communication

All stored and transmitted data are protected by block encryption featuring a dynamic key.

Frequency hopping

To prevent radio interference and jamming.

Learn more >

Power supply

Main

100–240 V, 50/60 Hz

Backup

12 V \equiv battery, 4 or 7 Ah

A backup battery is not included. The battery should have a full charge cycle of up to 30 hours.

Calculated battery life

up to 75 hours

[Learn more](#) >

VHF transmitter power

10.5–15.5 V \equiv , up to 2 A

Key features

Control via smartphone

Users can set up the module configurations and receive notifications in Ajax apps.

Number of potential outputs

8

Compatibility with third-party VHF radio transmitters

Any VHF transmitter with relay inputs can be connected to vhfBridge Jeweller

Recommended VHF transmitter models >

Adjustable pulse duration

from 0.5 to 255 s

Operation modes

- pulse
- bistable

Output types

- high potential (positive trip)
- low potential (negative trip)

Recommendations

The device is designed for indoor use only.

Sabotage protection

Protection against spoofing

device authentication

Tamper alarm

2 tamperers

Notifications on attempts to detach the device from the surface or open the front lid.

[Learn more >](#)

Communication loss detection

after 36 s

Detection time depends on the Jeweller or Jeweller/Fibra settings.

[Learn more >](#)

Board

Dimensions

145 × 89 × 51 mm

Weight

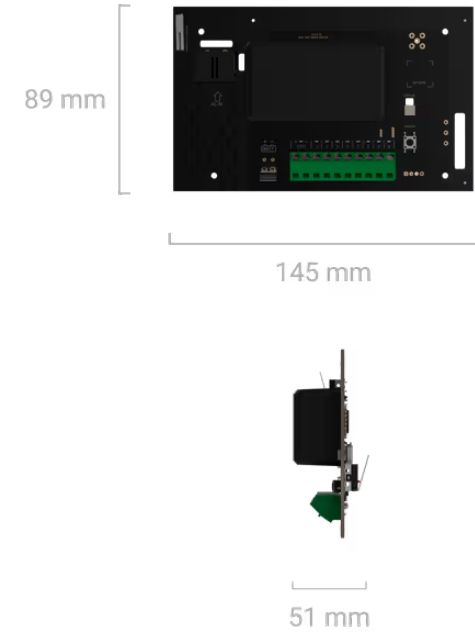
165 g

Operating temperature range

from -10 °C to +40 °C

Operating humidity

up to 75%



Complete set

vhfBridge Jeweller

Power cable

12 V battery connection cable

Installation kit

Quick start guide