

Tech specs

BASELINE

vhfBridge Jeweller

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



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= 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 $\overline{=}$, 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 tampers

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](#) >

Enclosure

Dimensions

196 × 238 × 100 mm

Weight

840 g

Operating temperature range

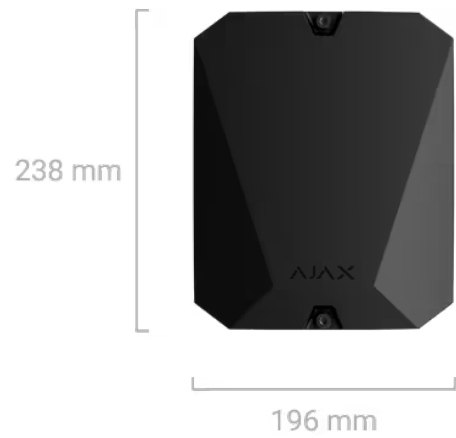
from -10 °C to +40 °C

Operating humidity

up to 75%

Protection class

IP40



Colors

Black



White



Complete set

vhfBridge Jeweller

Power cable

12 V battery connection cable

Installation kit

Casing

Quick start guide

Certification and compliance with standards



vhfBridge Jeweller



Additional information

Compliance with standards

[Learn more >](#)

User manual

[Learn more >](#)

Warranty

24 months

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Fibra wired protocol

Ajax radio protocols

Solutions

Customer stories

Solutions by facility type

Commercial fire detection and alarm system

Wireless Grade 3 solution

Wired Grade 3 solution

Outdoor intrusion protection

Video surveillance solution

Integration with Yale smart locks

Water damage prevention

Upgrades and retrofits

Why Ajax

How it works

Software

Ajax Security System

Ajax PRO: Tool for Engineers

Ajax Desktop

Ajax PRO Desktop

Ajax Response

Ajax TV

Ajax Translator PRO

Ajax Cloud Signaling

Ajax Media Player

Scenarios



Available on
App Store



Available on
Google Play

Support

Manuals and articles

Compliance with standards

Tools

Ajax kit configurator

Ajax device compatibility

Ajax compatibility with monitoring software

Ajax Services availability

Video storage calculator

Video device calculator

Battery life calculator

Radio communication range calculator

Switch and outlet configurator

Fibra power supply calculator

All web tools

Monitoring solutions and integrations

Intrusion alarm monitoring
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