

## **Tech specs**

#### BASELINE

# SpeakerPhone Jeweller

Wireless voice module for alarm verification



**Device compatibility** 

Check

#### Communication

#### VoRF communication technology

Proprietary wireless audio streaming protocol using time division duplex.

#### Key features:

- Two-way communication.
- Advanced sabotage protection.
- Full duplex audio communication.

#### Radio communication range

up to 1,700 m

Between the device and a hub in an open space.

## Frequency band

863.0-865.0 MHz

## **⇒** Jeweller communication technology

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

#### Key features:

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



#### Frequency bands

866.0-866.5 MHz

868.0-868.6 MHz

868.7-869.2 MHz

Depends on the sales region.

#### Maximum effective radiated power (ERP)

up to 25 mW

Automatic power control to reduce power consumption and radio interference.

#### Radio signal modulation

**GFSK** 

#### Radio communication range

up to 1,700 m

Between the device and a hub 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 **D**



#### **♥ Wings communication technology**

Proprietary wireless communication technology to update firmware.

#### Key features:

- Two-way communication.
- Advanced sabotage protection.
- Block encryption featuring a dynamic key.
- Reloading the data packages in case of transmission errors.

#### Frequency bands

866.0-866.5 MHz

868.0-868.6 MHz

868.7-869.2 MHz

Depends on the sales region.

#### Radio signal range

up to 1,700 m

Between the device and a hub in an open space.

Calculate the radio signal range at the facility **3** 

#### **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 **1** 

# **Key features**

## Al-powered sound optimization

It provides:

- Clear voice transmission.
- Suppression of extraneous noise.
- Improved audibility even at long distances.
- Option to set up the AI feature in Ajax apps.

#### Voice audibility

up to 10 m

Auto adjustment of the microphone sensitivity.

## **Output speaker power**

3 W

## Speaker volume

up to 103 dB

83 dB at a distance of 1 m.

#### Frequency range

from 200 Hz to 16 kHz

#### Audio codec

Opus

#### Remote firmware update

When a new firmware is available, an admin or PRO with the rights to configure the system can run the update in Ajax apps.

The hub must be connected to Ajax Cloud via Ethernet or Wi-Fi.

#### Recommendations

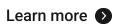
It is recommended to install the device at a height of 1.6 m.

The device is designed for indoor use only.

## Sabotage protection

#### Tamper alarm

Notifications on attempts to detach the device from the surface.





#### Microphone cut-off detection

Notifications of attempts to damage an inbuilt microphone.

#### **Holding screw**

To secure the device on SmartBracket.

## Protection against spoofing

device authentication

#### **Communication loss detection**

after 36 s

Detection time depends on the Jeweller settings.

## **Power supply**

#### **Battery**

4 × CR123

Pre-installed.

#### Calculated battery life

up to 3 years

In a standby mode.

up to 12 hours

In a conversation mode.

## Optional external power supply

12 V=, 1 A

The power supply cable length should not exceed 10 m when using the  $2 \times 0.35$  copperconductor cable. When the external power supply is connected, the batteries operate as a backup power source.

#### **Enclosure**

#### **Dimensions**

112 × 112 × 42 mm

#### Weight

270 g



## Operating temperature range

from 0 °C to +40 °C

# **Operating humidity**

up to 75%



#### **Protection class**

IP50

# Colors

Black White





# Complete set

# SpeakerPhone Jeweller

SmartBracket mounting panel

Installation kit

Quick start guide

# Certification and compliance with standards



SpeakerPhone Jeweller



#### Additional information

**Compliance with standards** 

User manual

Learn more **1** 

Learn more **1** 

Warranty

24 months

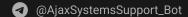
Learn more **>** 

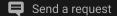
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#### Request extra help





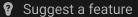




4,000,000

people worldwide under Ajax protection

Rating 4.7











in

#### **Products**

Intrusion protection

Video surveillance

Fire and life safety

Comfort and automation

All products

Services

System integrations

Ajax Ready products

Fibra wired protocol

Ajax radio protocols

#### **Software**

For users

Ajax PRO: Tool for Engineers

Ajax Desktop

Ajax PRO Desktop

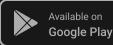
Ajax Translator PRO

Ajax Cloud Signaling

Scenarios



Available on **App Store** 



#### **Solutions**

Customer stories

Solutions by facility type

#### Support

Manuals and articles

Compliance with standards

Commercial fire detection and alarm system Tools Upgrades and retrofits Ajax device compatibility Why Ajax Video storage calculator How it works Video device calculator Battery life calculator Radio communication range calculator Switches and outlets configurator Fibra power supply calculator All web tools **Connecting to CMS** Intrusion alarm monitoring Video monitoring and visual alarm verification Audio alarm verification Company For partners Blog For partners About us Ajax Academy Partner Portal Press page **Events** Career Ajax Next Students at CES 2026 Reviews and feedback România Privacy policy Report a vulnerability **GDPR White Paper** NDAA Statement Cookie policy Anti-Spam Policy End user agreement Warranty

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