

Tech specs

BASELINE

ReX 2 Jeweller

Wireless radio signal range extender supporting Jeweller and Wings protocols



Device compatibility

Check

Connection possibilities

Number of ReX 2 Jeweller connected to the hub

5

For all compatible hub models.

Number of devices connected to ReX 2 Jeweller

up to 199

Depends on the hub model.

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

Automatic power control to reduce power consumption and radio interference.

Radio signal modulation

GFSK

Radio communication range

up to 1,700 m

Between the range extender 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 >](#)

Wings communication technology

Proprietary wireless communication technology to transmit photo verifications.

Key features:

- Two-way communication.
- Advanced anti-sabotage.
- Block encryption featuring a dynamic key.
- Data packages reload in case of transmission errors.
- Photo delivery check.

[Learn more >](#)

Frequency bands

 **ReX 2 Jeweller**

[More](#) 

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[Learn more](#) >

Ethernet

1 8P8C socket (up to 100 Mbps)

An alternative or main communication channel to transmit events, alarms, and photos.

Delivery time

Alarm delivery time to the hub

0.3 s

Photo delivery time to the hub

18 s

Via ReX 2 Jeweller using the Wings channel. Delivery time depends on the settings.

10 s

Via ReX 2 Jeweller using the Ethernet channel. Delivery time depends on the settings.

[Learn more >](#)

Recommendations

The device operating voltage is 110–240 V~.

ReX 2 Jeweller is designed for indoor use only.

Sabotage protection

Tamper alarm

Notifications on attempts to detach the device from the surface or remove it from the mounting panel.

[Learn more >](#)

Protection against spoofing

device authentication

Communication loss detection

after 36 s

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

[Learn more](#) >

Power supply

Main

110–240 V, 50/60 Hz

Up to 6 W of mains power consumption.

Backup

built-in rechargeable battery Li-ion 2 Ah

- Up to 24 hours of backup battery life when Ethernet is disabled.
- Up to 12 hours of backup battery life when Ethernet is enabled.

Calculated battery life:

- Up to 38 hours of backup battery life. ReX 2 Jeweller average consumption is up to 41* mA when Ethernet is disabled.
- Up to 12 hours of backup battery life. ReX 2 Jeweller average consumption is up to 161* mA when Ethernet is enabled.
- Up to 4 hours of maximum time to recharge a backup battery of maximum capacity to 80% of its rated capacity.

** From the backup battery after the loss of the main power supply.*

The range extender manufactured after **October 7, 2022**, has a **3-pin** battery. If the range extender was manufactured earlier, the battery can be a **2-pin** or **3-pin** one. To find out

the battery type, contact [Ajax Technical Support](#) or check it manually.

[Learn more](#) >

Type

type A

Power supply is used inside the supervised premises.

Quiescent device's current consumption at nominal voltage

14.5 mA

Maximum device's current consumption at nominal voltage

95.8 mA

Low battery voltage

3.7 V_{DC}

Low battery recovery voltage

4.1 V_{DC}

End-of-life battery voltage

3.6 V_{DC}

Device is switched off.

Minimum energy level for a backup battery in the charged state

100%

Alternative

6 V₌₌

Connected via an alternative power supply unit 6V PSU (type A) which is sold separately.

12-24 V₌₌

Connected via an alternative power supply unit 12-24V PSU (type A), which is sold separately.

[Learn more](#) >

Enclosure

Dimensions

163 × 163 × 36 mm

Weight of the white device

364 g

Weight of the black device

336 g

Operating temperature range

from -10 °C to +40 °C



Operating humidity

up to 75%

Protection class

IP30, IK06

Colors

Black



White



Complete set

ReX 2 Jeweller

SmartBracket mounting panel

Power cable

Screw terminal block Adapter (only for INCERT compliance)

Ethernet cable

Installation kit

Quick start guide

Certification and compliance with standards



ReX 2 Jeweller



Additional information

Compliance with standards

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User manual

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Warranty

24 months

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