

Tech specs

 BASELINE

ReX Jeweller

Wireless radio signal range extender



Device compatibility

Check

Connection possibilities

Number of ReX Jeweller connected to the hub

up to 5

Depends on the hub model.

Number of devices connected to ReX 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 1,800 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 >

Delivery time

Alarm delivery time to the hub

0.3 s

Recommendations

The device operating voltage is 110–240 V~.

ReX 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.

Calculated battery life:

- **Up to 35 hours** of backup battery life.
- **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

Quiescent device's current consumption at nominal voltage

11.4 mA

Maximum device's current consumption at nominal voltage

14 mA

Low battery voltage

3.7 V_{min}

Low battery recovery voltage

4.1 V_{min}

End-of-life battery voltage

3.6 V₌₌

Device is switched off.

Minimum energy level for a backup battery in the charged state

100%

Alternative

12 V₌₌

Connected via an alternative power supply unit 12V PSU for Hub/Hub Plus/ReX which is sold separately.

[Learn more](#) >

Enclosure

Dimensions

163 × 163 × 36 mm

Weight

330 g



Operating temperature range

from -10 °C to +40 °C

Operating humidity

up to 75%

Protection class

IP20



36 mm

Colors

Black



White



Complete set

ReX Jeweller

SmartBracket mounting panel

Power cable

Installation kit

Quick start guide

Certification and compliance with standards



ReX Jeweller



Additional information

Compliance with standards

[Learn more](#) >

User manual

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Warranty

24 months

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