Jeweller

ReX

Radio signal range extender boosting the range of Ajax security system devices that uses Jeweller communication protocol.



An Ajax hub is required for operation. Find the detailed information on the device by the link:

http://ajax.systems/support/devices/rex

Key features

- Frequency hopping against jamming
- Tampering alarm for lid protection
- Up to 35 hours on the back-up battery in case of external power loss
- Over-the-air updates
- Fast connection with security system via QR code
- Remote control and setup via an Ajax apps

Security for large and complex facilities



The maximum range of radio communication with connected devices is 1700 meters without obstacles. Up to 5 range extenders can be connected to the Ajax security system. It allows using Ajax products for large-scale facilities protection. Regardless of the number of devices connected to the ReX, alarms are delivered in 0.3 seconds.

Encrypted two-way communication

Jeweller is a **two-way wireless protocol** that provides fast and reliable communication between both: hub and ReX, and ReX and connected devices. The protocol delivers instant data-rich alarms and events: security companies and users know which device was triggered, when and where it happened.

Jeweller features **encryption** and **authentication** to prevent forgery, and **polling** to display connected devices statuses. Supporting **up to 1,800 m** of wireless connectivity, Jeweller is ready to protect facilities and deliver **the best user experience** for both end users and installers.

ReX connects to the hub only directly. Connection to another range extender is not provided.

1800 Up to 1,800 m communication range

Alarms and events delivery in 0.3 s

Quick installation

Connecting and configuring ReX is a straightforward process that saves the installer time. To add the range extender to the system, just scan a QR code in the Ajax app and assign a name, room, and group to the device. If necessary, the installer can deactivate or reconfigure ReX remotely without visiting the facility.



Technical specifications

Compliance with standards	EN 50131 (Grade 2) PD 6662:2017
Compatibility	**Hubs** all Ajax hubs **Range extenders** Connection to another range extender is not provided

Communication with control panel and range extenders	**Jeweller communication technology** **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 region of sales **Maximum effective radiated power (ERP)** ≤ 20 mW **Communication range** up to 1,800 m In an open space **Polling interval** 12–300 s Adjusted by PRO or user with admin rights in the Ajax app **Alarms and events delivery speed** 0.3 s **Protection against forgery** Device authentication **Protection against jamming** Frequency hopping
Power supply	**Main power supply** 110–240 V~, 50/60 Hz **Backup power supply** Li-Ion 2 Ah Up to 35 hours of autonomous operation
Installation	**Operating temperature range** from –10°C to +40°C **Operating humidity** up to 75%
Enclosure	**Colours** white, black **Dimensions** 163 × 163 × 36 mm

Installation	**Protection class** IP50	Enclosure	**Weight** 330 g **Tampering alarm**
Complete set	ReX Jeweller SmartBracket mounting panel Power supply cable Installation kit Quick start guide		