

## Tech specs

EN54 LINE

# EN54 Fire ReX Jeweller

Wireless addressable radio signal range extender for a fire alarm system, supporting intrusion protection devices



Device compatibility

Check

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Connection possibilities

## Number of EN54 Fire ReX Jeweller connected to the CIE

up to 5

## Number of devices connected to EN54 Fire ReX Jeweller

up to 199

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## Wireless communication

### 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.

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## 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 20 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 CIE and connected devices (in an open space). Maximum range depends on the connected device.

[Learn more](#) >

## 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 and update firmware.

Key features:

- Two-way communication.
- Advanced sabotage protection.

- Block encryption featuring a dynamic key.
- Data packet reload in case of transmission errors.
- Photo delivery check.

## 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.

## Radio communication range

up to 1,800 m

Between the CIE and a radio signal range extender, or between a range extender and connected devices (in an open space). Maximum range depends on the connected device.

[Learn more >](#)

## Encrypted communication

All stored and transmitted data is protected by block encryption featuring a dynamic key.

## Frequency hopping

To prevent radio interference and jamming.

[Learn more >](#)

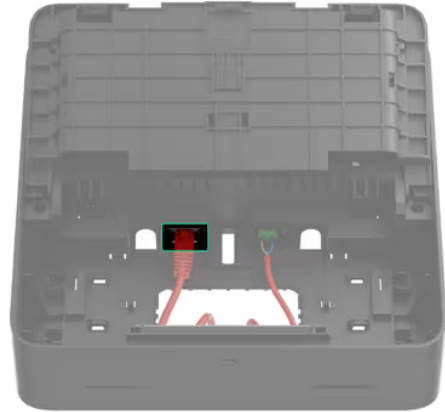
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## Communication channels

### Ethernet

1 8P8C socket

Up to 100 Mbps.



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## Delivery time

### Alarm delivery time to the CIE

0.3 s

### Photo delivery time to the CIE

18 s

Via EN54 Fire ReX Jeweller using the Wings channel. Delivery time depends on the settings.

10 s

Via EN54 Fire ReX Jeweller using the Ethernet channel. Delivery time depends on the settings.

[Learn more >](#)

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## Additional features

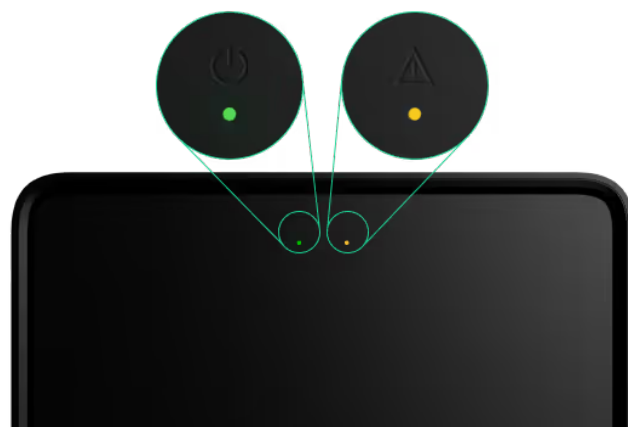
### LED indication

green

For power supply status.

yellow

For device faults.



### Special tool (key)

The special tool is used to remove the front panel from the range extender.



## Installation recommendations

The device is designed for indoor use only.

The device operating voltage is 110–240 V~.

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## Sabotage protection

### Tamper buttons

2

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

[Learn more >](#)

### Protection against spoofing

device authentication

### Connection loss detection

after 36 s

Detection time depends on **Jeweller** settings.

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## Power supply

### External

100–240 V, 50/60 Hz

Up to 0.48 A of mains power consumption.

### Internal

7.4 V<sub>DC</sub>, 5 Ah/10 Ah

On a rechargeable Li-ion battery (not included in the complete set): EN54 Internal Battery (24h) or EN54 Internal Battery (72h).

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### **Quiescent device's current consumption at nominal voltage**

80 mA

### **Maximum device's current consumption at nominal voltage**

105 mA

### **Low battery voltage**

6 V<sub>min</sub>

### **Low battery recovery voltage**

6.2 V<sub>min</sub>

### **End-of-life battery voltage**

6 V<sub>min</sub>

Device is switched off.

### **Minimum energy level for a backup battery in the charged state**

8 V<sub>min</sub>

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## **Autonomous operation**

## On internal battery

up to 50 hours

When Ethernet is enabled. On EN54 Internal Battery (24h) not included in the complete set.

up to 100 hours

When Ethernet is enabled. On EN54 Internal Battery (72h) not included in the complete set.

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## Enclosure

### Dimensions

210 × 210 × 51 mm

### Weight

890 g



### Operating temperature range

from -10 °C to +40 °C

### Operating humidity

up to 75% non-condensing

### Protection class

IP20

## Flammability rating

UL 94 V-0

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## Colors

Black



White



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## Complete set

EN54 Fire ReX Jeweller

SmartBracket mounting panel

Installation kit

Ethernet cable

Special tool (key)

Quick start guide

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## Revision

3

## Certification and compliance with standards



EN54 Fire ReX Jeweller



## Additional information

**Compliance with standards**

[Learn more >](#)

**User manual**

[Learn more >](#)

**Warranty**

24 months

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### Request extra help

- +447451279411
- support@ajax.systems
- @AjaxSystemsSupport\_Bot
- Send a request



**4,500,000**  
people worldwide under Ajax protection

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### Products

- Intrusion protection
- Video surveillance
- Fire and life safety
- Comfort and automation
- All products
- Services

### Software

- Ajax Security System
- Ajax PRO: Tool for Engineers
- Ajax Desktop
- Ajax PRO Desktop
- Ajax TV
- Ajax Translator PRO

System integrations  
Ajax Ready products  
Fibra wired protocol  
Ajax radio protocols

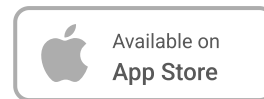
## Solutions

Customer stories  
Solutions by facility type  
Commercial fire detection and alarm system  
Wireless Grade 3 solution  
Video surveillance solution  
Integration with Yale smart locks  
Upgrades and retrofits  
Why Ajax  
How it works

## Company

Blog  
About us  
Press page  
Events  
Career  
Ajax Next  
Reviews and feedback

Ajax Cloud Signaling  
Scenarios



## Support

Manuals and articles  
Compliance with standards

## Tools

Ajax kit configurator  
Ajax device compatibility  
CMS software compatibility  
Ajax Services availability  
Video storage calculator  
Video device calculator  
Battery life calculator  
Radio communication range calculator  
Switches and outlets configurator  
Fibra power supply calculator  
All web tools

## Monitoring solutions and integrations

Intrusion alarm monitoring  
Video monitoring and visual alarm verification  
Audio alarm verification

## For partners

For partners  
Ajax Academy  
Partner Portal

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