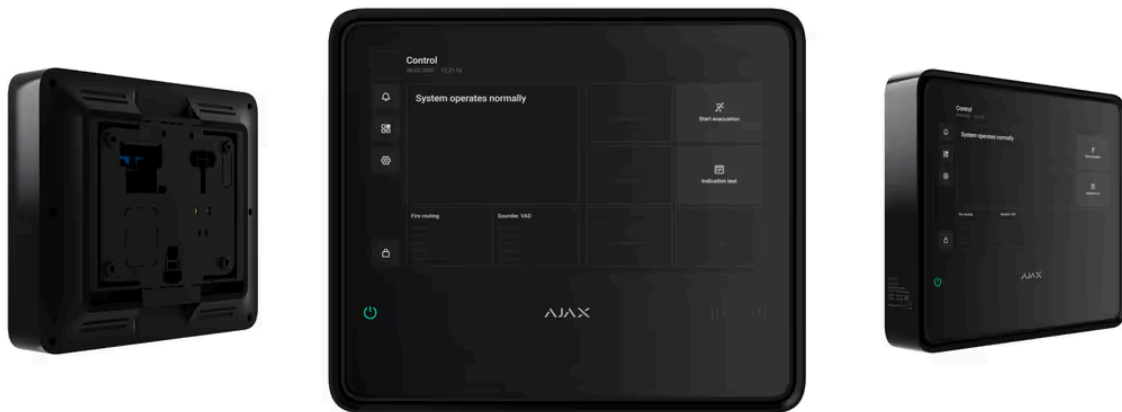


Tech specs

EN54 LINE

EN54 Fire Hub Jeweller

Wireless control and indicating equipment (CIE) for a fire alarm system, supporting intrusion protection devices



Device compatibility

Check >

Capacity

Devices

up to 200

Supports Ajax devices from the EN54 product line, wireless intrusion devices, and resettable buttons for manual fire alarm activation in any combination, except for the following:

- up to 10 intrusion sirens;
- up to 50 keypads with a built-in buzzer;
- up to up to 5 EN54 Fire ReX Jeweller range extenders.

More about devices >

Fire zones

up to 40

Alerts about fire in separate zones. Every zone may include multiple rooms.

Ajax NVRs

up to 36

Learn more >

Ajax cameras

up to 224 via Ajax NVRs and up to 492 standalone

Learn more >

Third-party IP cameras

up to 10 when using RTSP via SDK
up to 224 when using ONVIF via Ajax NVRs

Learn more >

Users

up to 200

- Any number of admin users within the CIE limit.
- PRO accounts for installers.
- PRO accounts for installation and monitoring companies.
- Access management for users.

Automation scenarios

up to 64

- By alarm.
- By schedule.
- By arming/disarming.
- By temperature, humidity, CO₂ concentration.
- By pressing Button.
- By touching LightSwitch.

Learn more >

Rooms

up to 80

Event log

up to 5,000 events

Fire alarm system events. Can be viewed on the CIE display. Events are saved on the non-volatile onboard flash memory.

up to 500 events

Fire alarm, intrusion, and other system events. Can be viewed in the events feed in Ajax apps.

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.

[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 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 packages 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 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.

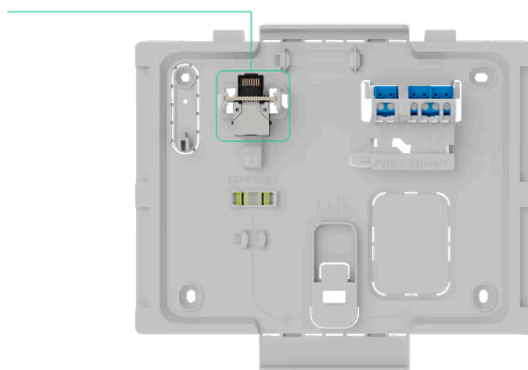
[Learn more](#) >

Communication channels

Ethernet

1 8P8C socket

Up to 100 Mbps.



Cellular

2 micro-SIM slots

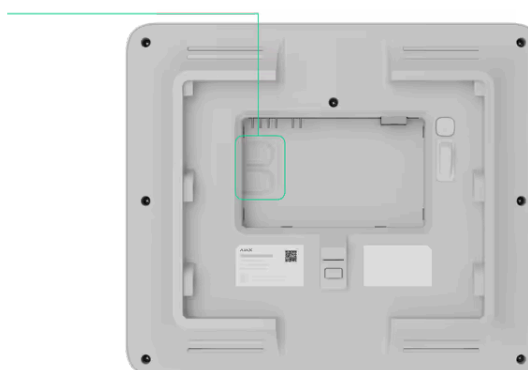
Cellular frequencies

2G

GSM900/DCS1800 (B3/B8)

4G (LTE)

FDD B1/B3/B5/B7/B8/B20



Wi-Fi

802.11 b/g/n module

up to 72 Mbps.

Automatic switching between communication channels

- Instant switching between Ethernet, Wi-Fi, and SIM.

- Instant switching between 4G (LTE), 3G, and 2G networks of one SIM.
- Switching between SIMs takes up to 4 minutes.

Communication channels prioritization

1. Ethernet
2. Wi-Fi
3. Cellular connection

Communication channels work in parallel to increase the system's reliability. Most of the data is transmitted via Ethernet.

Notifications

Supported notification types

- Push notifications
- SMS
- Calls

[Learn more](#) >

Event types

- Alarms
- Video alerts
- Faults (for fire alarm devices)
- Malfunctions (for other Ajax devices)



- Security state change
- System events
- Non-security alerts
- Automation devices
- Smart lock events
- Doorbell ringing

The notification types are configured individually for each user.

Monitoring

Supported protocols

- SIA (DC-09)
- SurGard (Contact ID)

[Learn more](#) >

Event types

- System alarms and events
- Panic button coordinates
- Photo verification

[Learn more](#) >

Fire alarm system management

Indication of fire alarms and faults

- display
- LED indicators
- sound

LEDs on the front panel of the CIE and the built-in buzzer notify users of fire alarms in zones, faults, and system states. In case of fire, the CIE also activates visual alarm devices and fire alarm sounders. The CIE display also shows system states and detailed alarm information.

Fire alarm control

- start evacuation
- reset
- mute buzzer
- silence / resound sounders
- override delays (coming soon)
- indication test

Users with appropriate rights can manage the fire alarm system via these options.

Fire alarm system settings

Users with appropriate rights can configure all fire alarm system settings via the CIE.

Event log

Stores a detailed log of fire alarms and system events. Capacity: up to 5,000 events.

Photo verification

Photo verification types

- Photo by alarm
- Photo by scenario
- Photo on demand
- Photo by schedule
- Photo by arming/disarming

More about photo by scenario >

More about photo on demand >

More about photo by schedule >

More about photo by arming/disarming >

Photo delivery time

up to 9 s

By default.

Learn more >

Photo resolution

up to 960 × 720 pixels

Depends on the detector.

Number of photos in a series

from 1 to 5 pictures

Additional features

User authorization

To manage the fire alarm system via the CIE touch screen, the user must log in by entering a code or presenting a personal access device.

Control

- codes
- Tag key fobs (coming soon)
- Pass cards (coming soon)

Contactless access (coming soon)

DESFire® EV1, EV2

ISO14443-A (13.56 MHz)

Access codes

up to 200 codes

One code per each user. Defines user access level to security and fire alarm system management.

Duress codes

up to 200 personal codes

One code per each user.

Built-in buzzer

volume at least 60 dB at a distance of 1 m

Sound alerts of fire alarms.

volume at least 50 dB at a distance of
1 m

Sound alerts of faults.

LED indication

red

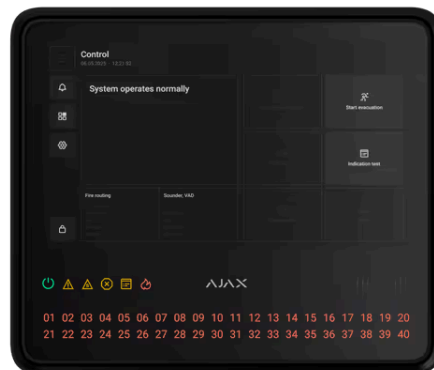
For fire alarms.

yellow

For device faults, tests, and
disablements.

green

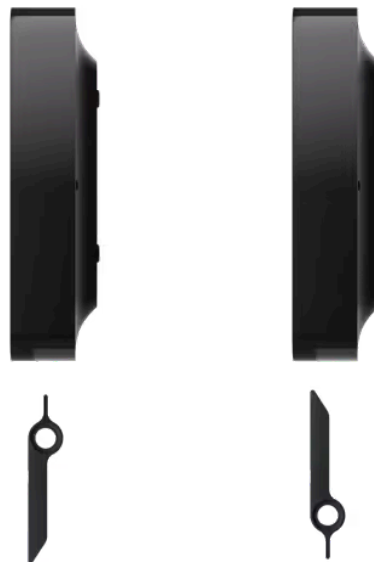
For power supply status.



Special tool (key)

The special tool is used to unlock the housing and replace the internal battery or dismantle the device from the SmartBracket mounting panel. The battery is not included in the CIE complete set.

[Learn more](#) >



Display

Diagonal

10.1"

Matrix type

IPS

Resolution

1024 × 600 px

Sensor

capacitive

Backlight settings

Manually adjustable in the CIE on-screen settings.

Interface language

Configurable via the CIE touch screen or in the CIE settings in Ajax apps.

Outputs

Output 1

Relay output for alerting the monitoring company in case of a system fault. Contact state is normally closed (NC) by default.

Output 2

Relay output for alerting the monitoring company in case of a fire alarm. Contact state is normally open (NO) by default.

Operating mode

bistable

External power supply

10–30 V \equiv

The relay does not supply power to connected devices.

Energy consumption

up to 60 W

In standby mode.

Maximum resistive load

up to 2 A at 30 V \equiv

Maximum inductive/capacitive load

up to 2 A at 30 V \equiv

Installation recommendations

The device is designed for indoor use only.

Use GlandBox if power and signal cables are not routed inside the wall.

The device operating voltage is 110–240 V \sim .

Sabotage protection

Tamper button

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.

Power supply

External

110–240 V, 50/60 Hz

Up to 0.48 A of mains power consumption.

Internal

7.4 V_{DC}, 5 Ah/10 Ah

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

[Learn more >](#)

Autonomous operation

On internal battery

up to 24 hours

On EN54 Internal Battery (24h) not included in the complete set. Battery life is based on display activation only when tapped, using W-Fi, Ethernet, and cellular (LTE) communication channels.

up to 72 hours

On EN54 Internal Battery (72h) not included in the complete set. Battery life is based on display activation only when tapped, using W-Fi, Ethernet, and cellular (LTE) communication channels.

[Learn more >](#)

Enclosure

Dimensions

263 × 223 × 54 mm

Weight

1,526 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



263 mm

54 mm

Color

Black

White



Complete set

EN54 Fire Hub Jeweller

SmartBracket mounting panel

Installation kit

Ethernet cable

Special tool (key)

Quick start guide

Revision

1

Certification and compliance with standards



EN54 Fire Hub Jeweller



Additional information

Compliance with standards

[Learn more >](#)

User manual

[Learn more >](#)

Warranty

24 months

[Learn more >](#)

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Subscribe to our emails about secure life. No spam.

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Request extra help

support@ajax.systems

[@AjaxSystemsSupport_Bot](#)

[Send a request](#)



4,500,000

people worldwide under Ajax protection

 Suggest a feature



Products

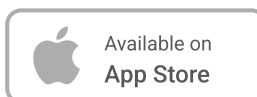
- Intrusion protection
- Video surveillance
- Fire and life safety
- Comfort and automation
- All products
- Services
- System integrations
- Ajax Ready products
- Fibra wired protocol
- Ajax radio protocols

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

Software

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



Support

- Manuals and articles
- Compliance with standards

Tools

- 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

Company

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