

EN54 Fire Hub Jeweller

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

Capacity

Devices

up to 200

Supports Ajax devices from the EN54 product line, wireless intrusion devices, and resettable buttons for manual fire alarm activation. Specifically, up to 10 intrusion sirens or keypads with a built-in buzzer and up to 5 EN54 Fire ReX Jeweller devices.

Fire zones

up to 40

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

Ajax NVRs

up to 36

Ajax cameras

up to 224 via Ajax NVRs and up to 492 standalone

Third-party IP cameras

up to 10 when using RTSP via SDK

up to 224 when using ONVIF via Ajax NVRs

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.

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.
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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.

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

up to 5,900 ft

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

Encrypted communication

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

Frequency hopping

To prevent radio interference and jamming.

Wings communication technology

Proprietary wireless communication technology to transmit photo verifications and update firmware.

Key features:

- Two-way communication.
- Advanced sabotage protection.

	<ul style="list-style-type: none"> ● Block encryption featuring a dynamic key. ● Data packages reload in case of transmission errors. ● Photo delivery check. <p>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.</p> <p>Radio communication range up to 1,800 m up to 5,900 ft Between the CIE and connected devices (in an open space). Maximum range depends on the connected device.</p> <p>Encrypted communication All stored and transmitted data is protected by block encryption featuring a dynamic key.</p> <p>Frequency hopping To prevent radio interference and jamming.</p>
<p>Communication channels</p>	<p>Ethernet 1 8P8C socket Up to 100 Mbps.</p> <p>Cellular 2 micro-SIM slots</p> <p>Cellular frequencies 2G GSM900/DCS1800 (B3/B8) 4G (LTE) FDD B1/B3/B5/B7/B8/B20</p> <p>Wi-Fi 802.11 b/g/n module up to 72 Mbps.</p> <p>Automatic switching between communication channels</p> <ul style="list-style-type: none"> ● Instant switching between Ethernet, Wi-Fi, and SIM. ● Instant switching between 4G (LTE), 3G, and 2G networks of one SIM.

	<ul style="list-style-type: none"> • Switching between SIMs takes up to 4 minutes. <p>Communication channels prioritization</p> <ol style="list-style-type: none"> 1. Ethernet 2. Wi-Fi 3. Cellular connection <p>Communication channels work in parallel to increase the system's reliability. Most of the data is transmitted via Ethernet.</p>
Notifications	<p>Supported notification types</p> <ul style="list-style-type: none"> • Push notifications • SMS • Calls <p>Event types</p> <ul style="list-style-type: none"> • 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 <p>The notification types are configured individually for each user.</p>
Monitoring	<p>Supported protocols</p> <ul style="list-style-type: none"> • SIA (DC-09) • SurGard (Contact ID) <p>Event types</p> <ul style="list-style-type: none"> • System alarms and events • Panic button coordinates • Photo verification

<p>Fire alarm system management</p>	<p>Indication of fire alarms and faults</p> <ul style="list-style-type: none"> ● display ● LED indicators ● sound <p>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.</p> <p>Fire alarm control</p> <ul style="list-style-type: none"> ● start evacuation ● reset ● mute buzzer ● silence / resound sounders ● override delays (coming soon) ● indication test <p>Users with appropriate rights can manage the fire alarm system via these options.</p> <p>Fire alarm system settings</p> <p>Users with appropriate rights can configure all fire alarm system settings via the CIE.</p> <p>Event log</p> <p>Stores a detailed log of fire alarms and system events. Capacity: up to 5,000 events.</p>
<p>Photo verification</p>	<p>Photo verification types</p> <ul style="list-style-type: none"> ● Photo by alarm ● Photo by scenario ● Photo on demand ● Photo by schedule ● Photo by arming/disarming <p>Photo delivery time up to 9 s By default.</p> <p>Photo resolution up to 960 × 720 pixels Depends on the detector.</p> <p>Number of photos in a series from 1 to 5 pictures</p>

<p>Additional features</p>	<p>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.</p> <p>Control</p> <ul style="list-style-type: none"> ● codes ● Tag key fobs (coming soon) ● Pass cards (coming soon) <p>Contactless access (coming soon) DESFire® EV1, EV2 ISO14443-A (13.56 MHz)</p> <p>Access codes up to 200 codes One code per each user. Defines user access level to security and fire alarm system management.</p> <p>Duress codes up to 200 personal codes One code per each user.</p> <p>Built-in buzzer volume at least 60 dB at a distance of 1 m volume at least 60 dB at a distance of 3.3 ft Sound alerts of fire alarms.</p> <p>volume at least 50 dB at a distance of 1 m volume at least 50 dB at a distance of 3.3 ft Sound alerts of faults.</p> <p>LED indication red For fire alarms.</p> <p>yellow For device faults, tests, and disablements.</p> <p>green For power supply status.</p> <p>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.</p>
<p>Display</p>	<p>Diagonal 10.1"</p>

Matrix type

IPS

Resolution

1024 × 600 px

Sensor

capacitive

Backlight settings

Manually adjustable in the CIE on-screen settings.

Backlight lifetime

50,000 hours

Guaranteed at 80% brightness.

User interface appearance

- dark
- light

Interface language

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

<p>Outputs</p>	<p>Output 1 Relay output for alerting the monitoring company in case of a system fault. Contact state is normally closed (NC) by default.</p> <p>Output 2 Relay output for alerting the monitoring company in case of a fire alarm. Contact state is normally open (NO) by default.</p> <p>Operating mode bistable</p> <p>External power supply 10–30 V= The relay does not supply power to connected devices.</p> <p>Energy consumption up to 60 W In standby mode.</p> <p>Maximum resistive load up to 2 A at 30 V= </p> <p>Maximum inductive/capacitive load up to 2 A at 30 V= </p>
<p>Installation recommendations</p>	<p>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~.</p>
<p>Sabotage protection</p>	<p>Tamper button Notifications about the fault on attempts to detach the device from the surface or remove the mounting panel.</p> <p>Protection against spoofing device authentication</p> <p>Connection loss detection after 36 s Detection time depends on Jeweller settings.</p>
<p>Power supply</p>	<p>External 110–240 V, 50/60 Hz Up to 0.48 A of mains power consumption.</p> <p>Internal 7.4 V= 5 Ah/10 Ah On Rechargeable Li-ion battery not included in the complete set: EN54 Internal Battery (24h) or EN54 Internal Battery (72h).</p>

<p>Autonomous operation</p>	<p>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.</p> <p>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.</p>
<p>Enclosure</p>	<p>Dimensions 263 × 223 × 54 mm 10.35" × 8.78" × 2.11"</p> <p>Weight 1,526 g 3.36 lbs</p> <p>Operating temperature range from -10 °C to +40 °C from 14 °F to 104 °F</p> <p>Operating humidity up to 75% non-condensing</p> <p>Protection class IP20</p> <p>Flammability rating UL 94 V-0</p>
<p>Color</p>	<p>Black White</p>
<p>Complete set</p>	<p>EN54 Fire Hub Jeweller SmartBracket mounting panel Installation kit Ethernet cable Special tool (key) Quick start guide</p>
<p>Warranty</p>	<p>24 months</p>

