

# EN54 Fire Hub Jeweller

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



## Compliant doesn't mean complicated

Introducing EN54 Fire Hub Jeweller, Ajax's touchscreen CIE designed for all-around management of a fire safety system. It's easy to install, simple to use, and doesn't require much upkeep. Built-in communicators and a fully wireless device connection allow the system to be quickly deployed and connected to monitoring stations through Ajax apps. With its large touch screen and intuitive interface, the CIE provides detailed system status and alarm notifications, ensuring that staff are immediately aware of any situation.

The CIE also supports EN 50131 (Grade 2) intrusion protection, video surveillance, and automation devices, making it a unified solution for commercial and municipal sites. Each alarm can be supported by visual verification, which helps the facility staff in responding to the emergency.

## Built to stand out



One device for many use cases: fire safety, intrusion protection, video surveillance, and automation within a single system.



User-centric system control and management via the CIE's touch screen and Ajax apps, on-site or remotely.



Best-in-class wireless connectivity that easily outperforms wired alternatives.



Hassle-free installation with all communicators built in – no enclosure disassembling or programming.

## Intuitive system management via a big touch screen

### Fire alarm control

With a single tap, authorized users can:

- reset the fire alarm
- start or silence the evacuation alarm
- mute or re-enable the CIE's built-in buzzer
- override preset activation delays
- run an indication test

### Zone management

All sensors, sounders, and VADs are grouped within the **Fire zones** tab. Based on access permissions, users can view each device's status, disable selected devices, or initiate testing.

### Sound and LED indication

The CIE has 40 LED indicators for each fire zone and six additional indicators to show the overall system status, including fire alarms, power supply state, and faults. A built-in 60 dB buzzer provides sound notifications.

### Event log

The CIE log tab chronologically captures every fire alarm event and holds up to 5,000 entries. The log provides explicit data, including the device name, timestamp, and a detailed event description.

# Fully equipped with all necessary EN 54-25 certified communicators

## Communication with system devices

- Jeweller, Wings, and TurboWings radio protocols
- Wireless range of up to 1,800 m
- Visual verification transmission
- Firmware updates transmission from the CIE to connected devices
- Data packets reload in case of transmission errors

## Communication with Ajax server and apps

- Ethernet, Wi-Fi, and 2 × SIM 2G/4G (LTE) to access the internet
- Up to four providers can be connected simultaneously
- Instant automatic switch between communication channels
- Communication channels prioritization

## Events transmission to the monitoring station

- SurGard (Contact ID) protocol
- SIA DC-09 protocol (IP-based)

## All-in-one solution

EN54 Fire Hub Jeweller isn't just a fire alarm CIE – it's a flexible solution for building comprehensive security. It can operate as a standalone fire alarm or as part of an integrated system that combines fire alarm, intrusion protection, automation, and even video surveillance.

### Fire detection and alarm system

- Reliable detection of smoke and rapid temperature rise
- Audible and visual indication that meets strict regulatory requirements
- Automated control of fire protection and evacuation equipment during fire alarms
- System management via the CIE touch screen or Ajax apps

### Integrated system

- Fire alarm, intrusion protection, video surveillance, and automation in a single system
- Support for visual alarm verification to provide faster threat identification
- Enhanced system capabilities through automation
- Full control of all devices via Ajax mobile and desktop apps

## Visual verification of alarms

The CIE supports photo and video alarm verification via Ajax MotionCam detectors and security cameras. Integrated in one powerful system, this device combination does the trick. It helps quickly assess the situation, saving users from concerns and monitoring companies from unnecessary dispatches.

**Fire alarm confirmation**   Fire detected   Alarm raised   Cause of fire captured

**Verification of other alarms**   Motion detected   Alarm raised   Evidence captured

## Fast and secure authentication

Up to 200 personal access codes

Contactless access via Pass cards and Tag key fobs<sup>1</sup>

Three access levels for users, fire officers, and administrators



## Quick installation and easy maintenance

- Adding to the system via QR code scanning
- Installation without disassembling the enclosure
- Maintenance and commissioning in Ajax apps
- Remote access and control for increased awareness
- Instant fault and maintenance notifications
- Internal battery hot swap without the CIE shutdown
- Automatic synchronization with a CMS



## Sabotage protection

- Tamper alarm to notify of attempts to dismantle the device
- Device authentication to prevent spoofing
- Jamming detection and frequency hopping
- Detection of communication loss between the CIE and connected devices in 36 s
- Regular polling to display the current device state
- Data encryption throughout the transmission process

<p><b>Compliance with standards</b></p> <p>EN 54-2 EN 54-4 EN 54-13 EN 54-21 EN 54-25 EN 50131 (Grade 2)</p> <p><b>Compatibility with devices</b></p> <p>For detailed information, scan the QR code or follow the link:</p>  <p><a href="https://ajax.systems/tools/devices-compatibility/">ajax.systems/tools/devices-compatibility/</a></p>	<p><b>Communication with Ajax devices</b></p> <p>Jeweller, Wings, and TurboWings communication technologies</p> <p><b>Communication range</b> up to 1,800 m up to 5,900 ft In open space</p> <p><b>Frequency bands</b> 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><b>Radio signal modulation</b> GFSK</p> <p><b>Maximum effective radiated power (ERP)</b> ≤ 25 mW</p> <p><b>Polling interval</b> 12–300 s Adjusted by a PRO or user with admin rights in the Ajax apps.</p>	<p><b>Communication channels</b></p> <p><b>Ethernet</b> 8P8C socket Up to 100 Mbps</p> <p><b>Cellular networks</b> 2 slots for micro-SIM</p> <ul style="list-style-type: none"> <li>• 2G GSM900/DCS1800 (B3/B8)</li> <li>• 4G (LTE) FDD B1/B3/B5/B7/B8/B20</li> </ul> <p><b>Wi-Fi</b> 802.11 b/g/n module up to 72 Mbps</p> <p><b>Automatic switching between communication channels</b></p> <ul style="list-style-type: none"> <li>• instantly between Ethernet, Wi-Fi, and cellular channel</li> <li>• instantly between 4G (LTE) and 2G networks of one SIM</li> <li>• up to 4 min between two SIM cards</li> </ul> <p><b>Communication channels prioritization</b></p> <ol style="list-style-type: none"> <li>1. Ethernet</li> <li>2. Wi-Fi</li> <li>3. Cellular connection</li> </ol> <p>Communication channels work in parallel for increased system reliability, with Ethernet handling most data.</p>	<p><b>Capacity</b></p> <p><b>Ajax devices</b> up to 200</p> <ul style="list-style-type: none"> <li>• wireless devices in any proportion</li> <li>• 5 range extenders max</li> <li>• 10 intrusion sirens or keypads with a built-in buzzer max</li> </ul> <p><b>Fire zones</b> up to 40</p> <p><b>Users</b> up to 200</p> <p><b>Security groups</b> up to 25</p> <p><b>Rooms</b> up to 80</p> <p><b>Automation scenarios</b> up to 64</p> <p><b>Cameras or DVRs</b></p> <ul style="list-style-type: none"> <li>• up to 36 Ajax NVRs</li> <li>• up to 224 Ajax cameras via Ajax NVRs</li> <li>• up to 492 standalone cameras</li> </ul> <p><b>Event log</b> up to 5,000 events Alarms and events are saved on the non-volatile onboard flash memory.</p>
<p><b>Display</b></p> <p><b>Type</b> IPS, capacitive touch screen</p> <p><b>Diagonal</b> 10.1"</p> <p><b>Resolution</b> 1024 × 600 px</p> <p><b>Backlight lifetime</b> 50,000 hours Guaranteed lifetime when the backlight brightness is 80%. Screen backlight can be manually adjusted in the CIE on-screen settings.</p> <p><b>Interface language</b> English (by default) Can be configured in the CIE on-screen settings or Ajax apps.</p>	<p><b>Relay outputs</b></p> <p><b>Output 1</b> NC For sending fault events to the monitoring software.</p> <p><b>Output 2</b> NO For sending fire alarms to the monitoring software.</p> <p><b>Operating mode</b> bistable</p> <p><b>External power supply</b> 10–30 V<sub>DC</sub> The relay does not supply connected devices.</p> <p><b>Energy consumption</b> up to 60 W In a standby mode.</p> <p><b>Maximum resistive load</b> up to 2 A at 30 V<sub>DC</sub></p>	<p><b>Power supply</b></p> <p><b>Main power supply</b> 110–240 V<sub>AC</sub>, 50/60 Hz</p> <p><b>Backup power supply</b> Li-ion 7.4 V<sub>DC</sub> battery with 5 or 10 A·h capacity Provided by EN54 Internal Battery (24h) or EN54 Internal Battery (72h). Batteries are sold separately.</p> <p><b>Autonomous operation</b> from 24 to 72 h Depends on the internal battery model. Batteries are sold separately.</p>	<p><b>User authorization</b></p> <p><b>Contactless access<sup>1</sup></b> Pass cards and Tag key fobs (up to 200 devices) DESFire® EV1, EV2 ISO14443-A (13.56 MHz)</p> <p><b>Access codes</b> up to 200 personal codes for registered users up to 200 codes for unregistered users</p> <p><b>Duress codes</b> up to 200 personal duress codes</p>

Enclosure	Installation	Complete set
<p><b>Color</b> white, black</p> <p><b>Dimensions</b> 263 × 223 × 54 mm 10.35" × 8.78" × 2.11"</p> <p><b>Weight</b> 1.526 g 3.36 lbs</p> <p><b>Flammability rating</b> UL 94 V-0</p> <p><b>Tamper alarm</b></p>	<p><b>Operating temperature range</b> from -10 °C to +40 °C from 14 °F to 104 °F</p> <p><b>Operating humidity</b> up to 75%</p> <p><b>Protection class</b> IP20</p>	<p>EN54 Fire Hub Jeweller</p> <p>SmartBracket mounting panel</p> <p>Installation kit</p> <p>Ethernet cable</p> <p>Special tool (key)</p> <p>Quick start guide</p>

<sup>1</sup> Contactless access will be available with future firmware updates.



For detailed information, scan the QR code or follow the link:

[ajax.systems/support/devices/en54-fire-hub-jeweller](https://ajax.systems/support/devices/en54-fire-hub-jeweller)

- ✉ support@ajax.systems
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