

Baseline product line

Hub (2G) Jeweller

Control panel with Jeweller support (1 × SIM 2G, Ethernet)



Connection to the security company's CMS



Wireless communication with Ajax devices up to a distance of 2,000 m



Informing users via push notifications, calls, and SMS



Integration with cameras and NVRs

Hub (2G) Jeweller supports 2G networks only. In regions where 2G networks are not available, you can use the Hub (4G) Jeweller control panel, which supports 2G and 4G (LTE) networks.

Instant alarm transmission

To ensure swift alarm transmission to security companies and users, Hub (2G) Jeweller features two communication channels – Ethernet and SIM card on 2G networks. Operating in parallel, these channels seamlessly switch in seconds, providing an always-online assurance for uninterrupted communication.



Jeweller

communication technology



The Ajax system uses secure two-way radio communication based on the Jeweller proprietary protocol. It ensures a communication range of up to 2,000 m between the hub and connected devices, using time frames for synchronization, authentication to prevent spoofing, and encryption for data theft protection.

Jeweller uses polling to display real-time device status in the Ajax apps. Automatic power adjustment ensures energy efficiency by avoiding the constant use of maximum power in system devices' radio transmitters.

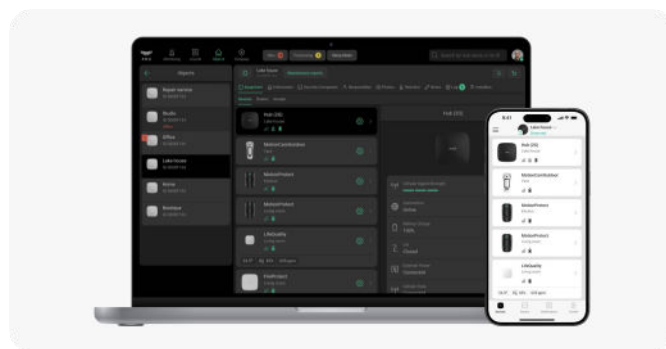
Up to 2,000 m of radio communication in an open space

Encrypted two-way radio communication

Notifications about jamming and connection loss

Always connected

The Ajax Cloud server boasts a 99.99% availability rate to maintain a constant connection between the hub, Ajax apps and CMS. The internet is all you need to configure the hub and monitor security system's information. It is easy to do it remotely, with no on-site visits.



Built-in backup battery ensures up to **15 hours** of autonomous operation

Detecting lost connection with devices in **36 seconds**

Detecting lost connection with Ajax Cloud in **1 minute**

Tamper alarm and frequency hopping

Superior, Fibra, and Baseline product lines are mutually compatible. This opens up numerous possibilities for building systems of any configuration.

Compliance with standards	Communication with Ajax devices	Communication channels	Features
<p>EN 50131 (Grade 2) PD 6662:2017 NIST (AES-128)</p>	<p>Jeweller communication technology</p> <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>Communication range up to 2,000 m In an open space</p>	<p>Ethernet 8P8C slot Up to 100 Mb/s</p> <p>Cellular network 1 slot for micro SIM 2G (GSM900/DCS1800 (B3/B8))</p>	<p>100 wireless Ajax devices (including 1 range extender and up to 10 sirens) 50 users 200 cameras (connected to Ajax NVRs) 14 Ajax NVRs 5 automation scenarios 9 security groups</p>
<p>Power supply</p> <p>Main 100–240 V~, 50/60 Hz</p> <p>Backup Li-Ion battery with 2 Ah capacity Up to 15 hours of autonomous operation</p>	<p>Enclosure</p> <p>Color white black</p> <p>Dimensions 163 × 163 × 36 mm</p> <p>Weight 350 g</p>	<p>Installation</p> <p>Operating temperature range from -10 °C to +40 °C</p> <p>Operating humidity up to 75%</p>	<p>Complete set</p> <p>Hub (2G) Jeweller Power cable Ethernet cable SIM card Depends on the sales region Installation kit Quick start guide</p>



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

ajax.systems/support/devices/hub/

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