



# Hub 2 (4G)

Security system control panel supporting alarm photo verification.

Has 3 independent communication channels: Ethernet and two 4G SIM cards. Automated switching between channels occurs in seconds.



Find detailed information about the device on the official website:



<https://ajax.systems/support/devices/hub-2-4g>



Grade 2 EN 50131



PD 6662:2017

## Features



Communication range with Ajax devices via Jeweller and Wings radio protocols is up to 2,000 m.



Up to 16 hours on a backup battery<sup>1</sup>



Frequency hopping against jamming.



Over-the-air updates.



Tampering alarm.



Remote setup and control via smartphone and desktop apps.

<sup>1</sup> With a hub communicating with Ajax Cloud via LTE or Ethernet

## More options with these two hub versions

To meet the requirements of the professionals and today's security market, we will manufacture and sell two Hub 2 models simultaneously. They have the same body and specifications, but only with one difference: a type of built-in cellular modem.

We will ship Hub 2 in two versions: with a 2G and a 4G modem. The hubs will be marked as Hub 2 (2G) and Hub 2 (4G) – and have different packaging to avoid confusion. Choose and install the equipment that precisely matches the client's needs. We will keep producing and selling all the preceding hub models to offer you even more choices.



Existing Hub 2 with a 2G modem will change the name to Hub 2 (2G). We will indicate this modification in all marketing materials. Please, note that hubs with 2G cellular modems will gradually cease to be supplied in regions where 2G/3G frequencies are planned to be disabled in the near future.

## Guaranteed delivery of alarms and photo confirmations

### Jeweller



We have developed Jeweller radio protocol to ensure the continuous operation of all devices within the security system. It provides two-way communication between a hub and devices at a distance of up to 2,000 meters. Jeweller uses time frames to synchronize communication with connected devices, authentication to eliminate forgery, and encryption to protect against data theft.

### Wings



Wings is a radio protocol developed for the fast transmission of visual data over vast distances. Hub 2 (4G) uses dedicated antennas to improve channel reliability. Built-in algorithms of package checking and uploading allow Wings to deliver photos at a distance of up to 1,700 meters, even if the signal level is unstable.

## Hubs' differences

	Hub	Hub Plus	Hub 2 (2G)	Hub 2 (4G)	Hub 2 Plus
Devices	100	150	100	100	200
Cameras & DVRs	10	50	25	25	100
Range extenders	1	5	5	5	5
Users	50	99	50	50	200
Security groups	9	25	9	9	25
Scenarios <sup>2</sup>	5	64	32	32	64
Visual alarm verification support	No	No	Yes	Yes	Yes
Communication channels	2G <sup>3</sup> 1xSIM Ethernet	2G/3G <sup>4</sup> 2xSIM Ethernet Wi-Fi	2G <sup>3</sup> 2xSIM Ethernet	2G/3G/4G (LTE) <sup>5</sup> 2xSIM Ethernet	2G/3G/4G (LTE) <sup>5</sup> 2xSIM Ethernet Wi-Fi

<sup>2</sup> Scenarios "By arming and disarming" are not included in the overall limit of the hub's scenarios. The number of such scenarios depends on how many automation devices are connected to the security system — one scenario per one automation device.

<sup>3</sup> GSM 850/900/1800/1900 MHz.

<sup>4</sup> 2G (GSM 900/DCS 1800), 3G (WCDMA 900/2100, B8/B1).

<sup>5</sup> LTE (FDD B1/B3/B5/B7/B8/B20).

# Tech Specs

## General

Colour	white, black	Installation	indoor
Compliance	EN 50131 (Grade 2) PD 6662:2017		

## Communication

Communication channels	2G (GSM900/DCS1800 (B3/B8)) 3G (WCDMA 850/900/2100 (B1/B5/B8)) LTE (FDD B1/B3/B5/B7/B8/B20) Ethernet	CMS connectivity	SurGard (Contact ID) SIA (DC-09) Other proprietary protocols
Communication protocols	Jeweller: two-way encrypted communication of events and alarms  Wings: two-way encrypted communication of photo verifications	Radio communication range	up to 2,000 m (Jeweller) up to 1,700 m (Wings)
Frequency band	868.0–868.6 MHz 868.7–869.2 MHz 863.0–870.0 MHz (depends on the region of sale)	Maximum effective radiated power (ERP)	≤ 25 mW
Alarms delivery speed	0.15 seconds	Photos delivery speed	9 seconds (default settings)

## Power supply

Power supply	110–240 V, 50/60 Hz	Backup power supply	Li-Ion 2 Ah (up to 16 hours of autonomous operation)
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## Antisabotage protection

Tampering alarm	+	Pings	12–300 sec (set by an admin in the app)
Frequency hopping	+	Protection against forgery	+

## Body and complete set

Operating temperature range	from –10°C to +40°C	Operating humidity	up to 75%
Overall dimensions	163 × 163 × 36 mm	Weight	362 g
Complete set	Hub 2 (4G) SmartBracket mounting panel Power supply cable Ethernet cable Installation kit Quick start guide		