

Hub Hybrid

Hybrid security system control panel supporting detectors with photo verification.







PD 6662

2017

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The detailed information on the device is available via QR code or at the link:





Hub Hybrid is the control panel of the Fibra product line. The Fibra devices can only be purchased, installed and administered by accredited Ajax Systems partners.

Key features



8 Fibra lines to connect wired devices







The synergy of wired and wireless technologies

Hub Hybrid supports connecting the **Jeweller** wireless devices and the **Fibra** wired devices. These technologies are combined to provide security for large-scale facilities regardless of metal and concrete obstructions, the radio signal can't get through.

Hub Hybrid supports the connection of up to 100 devices – any share of them can be wired or wireless. And security control via the app, photo verification and automation scenarios make protection even more reliable and convenient.

Technical Data Sheet: Hub Hybrid



Fibra

Wired communication technology with a range of **up to 2,000 m**. Hub Hybrid supports up to 8 Fibra lines. Fibra lines are generic: security detectors, detectors with photo verification, sirens, and keypads are connected to a 4-core cable.



Jeweller

Wireless communication technology with a range of **up to 2,000 m**. To expand the radio coverage area, up to **5 range extenders** can be connected to Hub Hybrid, each with a range of up to 1,800 m. And with the **ability to connect them to a hub via Ethernet**, the system will protect a metal hangar, a



Wings

Wireless communication technology to transmit the photos at a distance of **up to 1700 m**. With the built-in algorithms for data package checking and uploading, Wings delivers the first photo from the scene **in 9 seconds**.

Protecting the line against sabotage [Coming soon]

The following OS Malevich updates will provide support for the **Ring connection topology**, and no hardware upgrade will be required. Hub Hybrid will support up to 4 rings. Even being broken, the ring is divided into two stable operating segments, and the security company and users are immediately notified.



Ring connection method

Two working lines







Short circuit detection



Technical Data Sheet: Hub Hybrid

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Always online

Hub Hybrid connects to three Internet service providers via Ethernet and two SIM cards (2G/3G/LTE). Channels work in parallel, and automatic switching between them takes seconds.

Hub Hybrid is connected to the apps, security companies and users through the Ajax Cloud server with an availability of 99.995% in 2021. For more excellent reliability, the servers are located in several data centres. We use the proprietary binary protocol and automatic load balancing for the uninterrupted processing of millions of data packets and the stable operation of security systems.



Hub Hybrid is available in two versions: Hub Hybrid (2G) supporting 2G cellular networks and Hub Hybrid (4G) supporting 2G, 3G, and 4G/LTE networks.

More than two days of running on a backup battery

Fibra devices consume less than 60 μ A, which is 100 times less than similar bus detectors from other manufacturers. It allows connecting more devices on a single line and provides longer wired connections.





The low-power consumption also provides high system autonomy in case of a blackout. Hub Hybrid with 7 Ah battery backup powers a system of 30 Fibra devices for **up** to 60 hours. This is five times longer than required for Grade 2 and actually meets Grade 3 requirements.



A system with 30 connected Fibra devices runs up to 60 hours on a backup battery

The power consumption of Fibra devices is 100 times lower compared to similar detectors from other manufacturers

Convenience down to details

Security detectors, keypads, and sirens are connected to one line to ensure the security of a specific zone at the facility.

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Once devices are installed, an engineer launches automatic line scanning in the Ajax PRO app. It shows all devices connected to the Fibra lines. The installer can then assign names, security groups and virtual rooms. There are two ways to determine which device is in front of you: switching on the LED and triggering the alarm.

After installing the system, an engineer runs the **Bus Power Test**. It simulates the maximum possible power consumption: detectors give alarms, keypads are activated, and sirens are turned on. If the system passes the test, it will have sufficient power in any case.

A monitoring station engineer does not need to configure zones manually. PRO Desktop monitoring software automatically synchronises all information about the hub devices.



Configuring via a smartphone or desktop app







Technical specifications

Compliance with standards	EN 50131 (Grade 2) PD 6662:2017	CMS connectivity	SurGard (Contact ID) SIA (DC-09) Other proprietary protocols
Devices	Up to 100 wired / wireless devices Including up to 5 range extenders and up to 10 sirens	Features	50 users 32 automation scenarios 25 cameras or DVRs 9 security groups 50 virtual rooms
Communication channels with Ajax devices	s with technology communic	communication	Ethernet 8P8C socket Up to 100 Mb/s Cellular networks 2 slots for mini SIM cards
			Hub Hybrid (2G):



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Technical Data Sheet: Hub Hybrid

Communication channels with Ajax devices

Wings
communication
technology
Communication range
up to 1,700 m
In an open space
Frequency bands
866.0 - 866.5 MHz
868.0 - 868.6 MHz

External communication channels

Hub Hybrid (4G): 2G GSM900/DCS1800 (B3/B8)

3G WCDMA 850/900/2100 (B1/B5/B8)

4G/LTE FDD B1/B3/B5/B7/B8/B20

	Depends on the sales region		
	Maximum effective radiated power (ERP) ≤ 25 mW		
Power supply	Main power supply 100–240 V, 50/60 Hz	Installation	Operating temperature range from –10°C to +40°C
	Backup power supply 12V == accumulator with 4 or 7 Ah capacity		Operating humidity up to 75%
	Backup battery not included in the set		Protection class IP50
Casing	Colour white, black	Complete set	Hub Hybrid (2G) or Hub Hybrid (4G) board Casing
	Dimensions 196 × 238 × 100 mm		Power cable 12 V— battery connection

Weight 852 g Tampering alarm Two tampers to detect the lid opening and alert of detachment from a wall cable Ethernet cable Installation kit 8 terminating resistors (120 Ω) Quick Start Guide

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