MultiTransmitter

Module for connecting wired alarm to Ajax and managing security via the app

The second life of an old wired alarm

We understand how difficult it is to decide on a wired alarm upgrade. It is a common situation when your system is still capable of protecting your property but is clearly outdated. Renovating with Ajax doesn't force you to leave behind the current equipment. It gives you a chance to build modern complex security based on existing wired equipment.

Security via smartphone

With MultiTransmitter, system users get security control via app, data-rich notifications, and automation scenarios. An installer can set up the system or device in the PRO-app, both while on-site and remotely.

More Ajax features

Perimeter IR detectors, household gas sensors, thermostats, float sensors, and other devices are ready to expand the Ajax areas of use. Connect them to a hub via MultiTransmitter and manage the combined security system in the Ajax app.

Multitasking in a single body

Rails for fixing the backup battery 4 or 7 Ah[1]	3 power lines for fire and intrusion detectors
18 zones for connecting devices NO, NC, EOL, 2EOL, 3EOL[2]	Sabotage-proof body tampers against opening and detaching from the surface

Less hassle with automated security

Use automation scenarios so that the security system instantly responds to threats without waiting for police. Ajax will be armed by schedule, turn on the light by the alarm of a motion detector, switch off the potential cause of ignition at the first sign of fire. With MultiTransmitter, an old alarm system becomes part of a safe and smart home.

Data-rich alarms

With MultiTransmitter, you can specify the device name, the type of alarm and a room for each wired device. This makes notifications more informative — you know not just what happened but where. This information is displayed using push notification, SMS, and is also sent to the security company's monitoring station using an appropriate code. A total of 9 types of alarms are available: intrusion, fire alarm, medical help, panic button, gas alarm, leakage, tamper alarm, malfunction, custom (service event).

Radio communication without reliability compromises

MultiTransmitter communicates with a hub via an encrypted Jeweller radio protocol. This is a TDMA technology developed by Ajax Systems for uninterrupted communication with devices. Jeweller detects jamming attempts, switches to the backup frequencies in case of interference, and allows Ajax wireless devices to run on battery power for years.

- Connection to a hub at a distance of up to 2000 meters
- Alarm delivery in 0.15 seconds
- Adjustable ping from 12 seconds

Learn more about Jeweller

Security without barriers

When using radio signal range extenders, Ajax security system's radio network can cover up to 35 km^2. But if some rooms are impermeable to radio waves, connecting wired devices via MultiTransmitter is the best solution. The length of wires can reach 400 meters.

Protected against sabotage

MultiTransmitter will inform you instantly if the connected devices have been interrupted with short circuit failure, disconnection of the signal cable, or tampering alarm. Electricity loss at the site will not be a problem either — the backup battery can provide power to devices for up to 4 days. MultiTransmitter body itself is equipped with two tampers that respond to removal of the integration module from the surface and removal of the lid.

- Instant connection loss detection with wired device (EOL)
- Free space in the body for a backup battery 7 A · h
- 2 tampers that detect dismounting and opening of the body

Made by professionals for professionals

We made sure that the installation and setup process does not require any extra time or effort. Like other Ajax devices, MultiTransmitter connects to a hub in the app by scanning a QR-code. When connecting wired devices, you don't need to know the resistors' resistance values. The system will also warn you if a device was not connected correctly.

1. Adding to the system via QR-code
2. Mounting on a wall
3. Wired devices connection
4. Configuring in the app

Tech specs

Colour	White, black
Installation	Indoors
Compatibility with central units	Hub, Hub Plus, Hub 2 (2G), Hub 2 Plus Hub Hybrid (2G) Hub Hybrid (4G) * When using the Hub model, 2EOL and 3EOL connections are not available
Compatibility with range extenders	+
Remote configuration and testing	+
Number of zones for connecting devices	18
Supported detector connection types	NO, NC, EOL (with firmware version lower than 2.13.0) NO, NC, EOL, 2EOL, 3EOL (with firmware version 2.13.0 and higher) * When using the Hub model, 2EOL and 3EOL connections are not available
Resistance of EOL resistors	1 kΩ to 7.5 kΩ (for MultiTransmitter with firmware version lower than 2.13.0)

	1 kΩ to 15 kΩ for each resistor with total resistance of 30 kΩ (for MultiTransmitter with firmware version 2.13.0 and higher)
Supported detector types	Pulsed and bistable
Event types for connected detectors	Tamper alarm Intrusion Fire alarm Medical help Panic button Gas alarm Leakage Malfunction Custom
Main power supply	110−255 V, 50/60 Hz
Backup power	12 V⎓(from battery)
Supported battery type	Battery with 4 or 7 Ah capacity (not included in the complete set), dimensions up to 150 × 64 × 94 mm
Power supply lines for connecting devices	3
Power supply voltage and current of connected devices	12 V⎓, up to 1 A for all power supply outputs
Anti-sabotage	Protection against fraud Radio frequency hopping Two tampers: against opening and detaching from the surface
Alarm signal delivery time	0.15 s
Temperature sensor	No
Jeweller radio protocol	Communication range — up to 2,000 m in an open space Two-way communication between devices Radio 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 25 mW Block encryption featuring a dynamic key Polling interval: 12–300 s Adjusted by PRO or user with admin rights in the Ajax app Learn more
Operating temperature range	From -10°C to +40°C
Operating humidity	Up to 75%
Dimensions	196 x 238 x 100 mm
Weight	805 g
Warranty	24 months from the date of sale Learn more
Complete set	MultiTransmitter board Body Installation kit Power cable 12 V⎓ battery connection cable Quick start guide
Service life	10 years

1 — battery is not included in the complete set
2 — support for 2EOL and 3EOL connection is available for MultiTransmitter with firmware version 2.13.0 and higher. A hub should have firmware version OS Malevich 2.13 or higher. When using the Hub model, 2EOL and 3EOL connections are not available.