Tech specs

SUPERIOR

Superior MultiTransmitter IO (4X4) Fibra

Wired module with 4 inputs and 4 outputs. Designed to integrate third-party devices into an Ajax system

Device compatibility   (Check)

⬛ Superior MultiTransmitter IO (4X4) Fibra   More ⌄

◈ Fibra communication technology

Proprietary wired communication technology to transmit commands, alarms, and events.

Key features:

- Two-way communication.
- Advanced sabotage protection.
- Instant notifications.
- Remote control and configuration in Ajax apps.

Learn more ›

Line connection

4-core cable

Connection

to any point of the Fibra line

The device can be installed behind the hub or any other device.

Fibra line length

up to 2,000 m

When the U/UTP cat.5 twisted pair cable is used.

Calculate the line length at the facility ›

Encrypted communication

All stored and transmitted data are protected by block encryption featuring a dynamic key.

Inputs

Number of input lines for third-party devices

4

Input terminals

- **Z1–Z4** — inputs for connecting third-party wired devices.
- **COM** — common inputs for connecting signal contacts of third-party wired devices.

Type of connection

NO, NC, EOL, 2EOL, 3EOL, roller shutter

With the EOL total resistance from 1 kΩ to 15 kΩ with a 100 Ω increment.

EOL resistor scanning

Allows you to measure EOL resistance automatically.

Operating mode of connected sensors

Detect alarms

Allows receiving alarms from connected third-party devices that detect doors being opened, vibration, glass breakage, gas and water leakage, etc.

Switch arming modes (KeyArm)

KeyArm allows arming/disarming the system and individual groups or setting up Night mode.

Control of blocking element

Allows controlling the position of the blocking element pin.

Control of bolt lock

Allows controlling the position of the lock bolt switch.

Operating mode

pulse
bistable

It can be configured in Ajax apps.

Length of the wired connection to third-party devices

up to 400 m

For the EOL connection type, with the U/UTP cat.5, 4×2×0.51 mm (24 AWG) cable, copper conductor, or 4×0.22 mm^2 signal cable, copper conductor (cable resistance of 22 Ω per 100 m) if the device is powered by an external power supply. The maximum connection length for devices powered by an integration module depends on cable resistance and the sensor's current consumption.

Outputs

Number of output lines for third-party devices

4

The device is equipped with 2 logic outputs and 2 relays with dry contact.

Output terminals

- **Relay1, Relay2** — relay outputs for connecting third-party wired devices.
- **L1, L2** — logic outputs for connecting third-party wired devices with a maximum load capacity of up to 25 mA.

Output modes

Relay

Allows controlling connected third-party devices (only for relay outputs).

Blocking element

Allows controlling the blocking element.

Electric lock

Allows controlling the electric lock.

Switch state by timer

If enabled, the connected device automatically switches to the opposite state when the selected Operating time expires.

Operating time

from 1 s to 3 min

It can be configured for pulse mode in Ajax apps separately for each relay.

Key features

Automation scenarios

They can be configured in Ajax apps separately for each relay.

Learn more ›

Relay state stability

If the feature is enabled, the current state of the relay contacts remains the same even after the power supply from the hub fails.

Controlling the blocking element position

The feature allows you to check the device's operation or forcibly change its position. It is configured in an Ajax app when the **Blocking element** output mode is selected.

Unavoidability principle

Superior MultiTransmitter IO (4X4) Fibra is an all-in-one solution for connecting third-party devices required for automatic door locking/unlocking on arming/disarming according to the unavoidability principle (German: Zwangsläufigkeit).

Event types

An Ajax app specifies the event types for wired device inputs. The selected type determines the text of alarm notifications and events of the connected device, as well as event codes transmitted to the CMS. A PRO or a user with admin rights in an Ajax app can configure the type of event.

Learn more ›

Remote firmware update

When a new firmware is available, an admin or a PRO with rights to configure the system can run the update in Ajax apps.

Recommendations

For indoor use only. It is recommended to install the module in Ajax Case, which is sold separately and available in several versions.

Case configurator ›

How to install devices in Case ›

Sabotage protection

Tamper alarm

Notification when the lid is opened or an attempt is made to detach the device from the surface or remove it from the mounting panel. The device has a connector that allows connecting a tamper board to the module. It is available in Case, which is sold separately.

What is a tamper board? ›

Learn more about Case ›

Protection against spoofing

device authentication

Connection loss detection

after 36 s

Detection time depends on the Jeweller/Fibra settings.

Learn more ›

Instant detection of wired connection loss, short circuits, and malfunctions

when the 2EOL/3EOL connection is used

Depends on the connection type.

Instant detection of short circuits of the power outputs

After detection, the system stops the power supply and sends a notification to the user.

Power supply

Fibra line

12–28 V⎓, up to 330 mA at a nominal voltage of 24 V⎓

The hub powers the device.

Power supply of connected wired devices

12 V⎓, up to 500 mA

Maximum total current consumption by third-party devices at a nominal voltage of 12 V⎓ should not exceed 500 mA.

Power terminals for input devices

- **+12V** — 12 V⎓ power supply output for third-party wired sensors.
- **GND** — power ground.

Power terminals for output devices

- **+12V** — power supply output for third-party electromechanical elements such as electric locks and 12 V⎓ blocking elements.
- **GND** — power ground of third-party electromechanical elements.


Board

Dimensions

93 × 55 × 27 mm
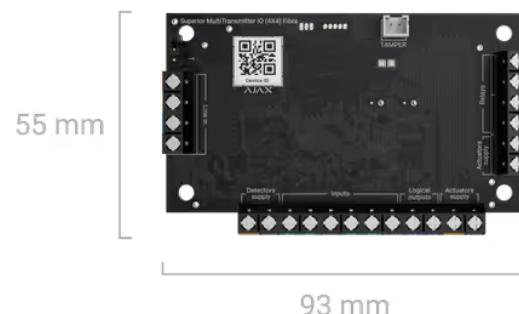
Weight

46 g

Operating temperature range

from −10 °C to +55 °C

Operating humidity

up to 75% non-condensing

Complete set

Superior MultiTransmitter IO (4X4) Fibra

Quick start guide

Certification and compliance with standards

Superior MultiTransmitter IO (4X4) Fibra

Additional information

Compliance with standards

Learn more ›

User manual

Learn more ›

Warranty

24 months

Learn more ›

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Ajax PRO Desktop

Ajax Translator

Scenarios

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App Store

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Google Play
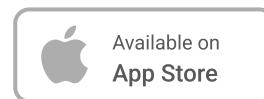
Solutions

Customer stories

Solutions by facility type

Upgrades and retrofits

Why Ajax

How it works

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Compliance with standards

Tools

Ajax device compatibility

Video storage calculator

Video device calculator

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For partners

Ajax Academy

Partner Portal

Hrvatska   Privacy policy   Report a vulnerability   GDPR White Paper   NDAA Statement   Cookie policy

Anti-Spam Policy   End user agreement   Warranty