

Ajax Superior MultiTransmitter G3 Jeweller

Wireless module to integrate up to 18 third-party devices into an Ajax system

This is a device of the Superior product line. Only accredited Ajax Systems partners can sell, install, and maintain Superior products.

Ajax Superior MultiTransmitter G3 Jeweller is available for order either in its original casing or as a board. Both versions are compatible with Ajax Case¹ casings.



3
GRADE
EN 50131

PD 6662
2017



Pushing the boundaries of high security

Ajax Superior MultiTransmitter G3 Jeweller adds flexibility to Grade 3 installations. On the one hand, the integration module can modernize an existing security setup. It brings all the benefits of the Ajax ecosystem – centralized management in an Ajax app, informative notifications, integration with video surveillance and fire safety, and automation scenarios – without the cost of full replacement. On the other hand, the module can expand an Ajax system with almost any security device outside the Ajax portfolio. In both cases, the device helps build a complete Grade 3 security solution tailored to projects of any complexity.



Maximum compatibility

- Support for NC, NO, EOL, 2EOL, and 3EOL connection types
- Support for resistors from 1 kΩ to 30 kΩ
- Pulse and bistable operating modes
- KeyArm Zone for system arming/disarming with third-party devices
- One 12 V^{DC} power supply output for a fire detector and four outputs for other devices
- Automation scenarios triggered by connected devices



Sabotage protection

- Two tamper buttons to detect dismantling or detachment of the integration module, and a connector for an Ajax Case tamper board
- Authentication of the integration module to prevent spoofing
- Protection against third-party device spoofing thanks to EOL connection support
- Transmission of sabotage alarms from connected devices
- Communication loss detection within³ 36 seconds for the integration module
- Frequency hopping to prevent radio interference and jamming



Control and configuration in Ajax apps

- Mobile and desktop Ajax apps for end users and security professionals
- Remote configuration without third-party device disassembly
- Informative notifications on alarms and events
- Over ten selectable event types for connected devices
- Integration into the Ajax ecosystem within a single app



Superior Jeweller and Wings communication technologies

- Up to 3,000 m (9,840 ft) of radio communication in open space²
- Enhanced encryption throughout data transmission between the integration module and an Ajax hub
- Regular polling to display the current state of the integration module
- Over-the-air firmware updates for Ajax Superior MultiTransmitter G3 Jeweller



Power supply

Up to 24 hours of operation on a 12 V^{DC}, up to 7 Ah backup battery⁴

Main power supply: 100–240 V, 50/60 Hz

TDMA technology and power-saving mode



Hassle-free installation and setup

- Adding the integration module to the system via QR code
- Adding and configuring third-party devices via Ajax apps
- Versatile setup options: in the original casing or as a board for installing in an Ajax casing
- In-app EOL resistor scanning for time-efficient installation of third-party devices without enclosure disassembly
- Effortless cable management and battery placement
- Up to 400 m (1,300 ft) of wired connection with connected devices

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| <p>Compliance with standards</p> <p>EN 50131 (Grade 3) PD 6662:2017</p> | <p>Communication with a hub or range extender</p> <p>Superior Jeweller communication technology</p> <p>Frequency bands 865.0–868.0 MHz 868.0–868.6 MHz</p> <p>Wings communication technology 868.7–869.2 MHz 869.4–869.65 MHz</p> <p>The device supports all listed bands</p> <p>Wireless communication range² up to 3,000 m up to 9,840 ft In open space</p> <p>Polling interval 12–300 s Adjusted by a PRO or user with admin rights via Ajax apps</p> | <p>Features</p> <p>Number of zones 18 One wired device per zone</p> <p>Connection types NC, NO, EOL, 2EOL, 3EOL</p> <p>Operating modes pulse, bistable Set by a PRO or a user with admin rights</p> <p>Operating modes of connected sensors Detect alarms Switch arming modes (KeyArm) Control of blocking element Control of bolt lock</p> |
| <p>Compatibility with hubs and range extenders</p> <p>For detailed information, scan the QR code or follow the link:</p> <p>Ajax Superior MultiTransmitter G3 Jeweller</p> <p> ajax.systems/tools/devices-compatibility/?models=MTR.G3.J</p> <p>Ajax Superior MultiTransmitter G3 Jeweller (without casing)</p> <p> ajax.systems/tools/devices-compatibility/?models=MTR.G3WC.J</p> | <p>Board</p> <p>Dimensions Weight 178 × 99 × 38 mm 220 g 7.01" × 3.90" × 1.50" 7.77 oz</p> <p>Two tamper buttons and a connector for an Ajax Case tamper board</p> <p>Casing</p> <p>Dimensions Color 196 × 240 × 100 mm white, black 7.70" × 9.45" × 3.94"</p> <p>Weight of the device in a black casing Weight of the device in a white casing 847 g 882 g 1.87 lb 1.94 lb</p> <p>Two tamper buttons and a connector for an Ajax Case tamper board</p> | <p>Types of events over 10 selectable event types Set by a PRO or a user with admin rights</p> <p>Cable length between devices and Ajax Superior MultiTransmitter G3 Jeweller up to 400 m up to 1,300 ft When a signal cable with a 0.22 mm² copper-clad aluminum conductor is used</p> |
| <p>Power supply</p> <p>Main power supply 100–240 V, 50/60 Hz</p> <p>Backup power supply⁴ 12 V⁼⁼, up to 7 Ah capacity, with a full charge cycle of up to 24 h</p> <p>Power supply of connected wired devices 10.5–15 V⁼⁼, up to 1 A (total maximum current consumption) Four power supply lines from Ajax Superior MultiTransmitter G3 Jeweller</p> <p>Power supply of connected fire detectors 10.5–15 V⁼⁼, up to 0.4 A One power supply line from Ajax Superior MultiTransmitter G3 Jeweller</p> | <p>Installation</p> <p>Operating temperature range from –10 °C to +40 °C from 14 °F to 104 °F</p> <p>Operating humidity Protection class up to 75% IP30, IK06</p> <p>Complete set</p> <p>For Ajax Superior MultiTransmitter G3 Jeweller in the original casing Ajax Superior MultiTransmitter G3 Jeweller Power cable Battery connection cable Casing Installation kit Quick start guide</p> <p>For Ajax Superior MultiTransmitter G3 Jeweller as a board Ajax Superior MultiTransmitter G3 Jeweller (without casing) Power cable Battery connection cable Quick start guide</p> | |

¹ Ajax Case casings are sold separately. The integration module is compatible with only certain Ajax Case models. Use our Case configurator to choose the optimal casing for the specific setup: ajax.systems/tools/case-configurator.

² Communication range depends on the hub model.

³ If the polling interval is set to send three data packets as often as every 12 seconds.

⁴ Backup battery is not included in the complete set.



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

ajax.systems/products/superior-multitransmitter-g3-jeweller/manuals/

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