Tech specs

SUPERIOR

Superior ReX G3 Jeweller

Wireless radio signal range extender with support for photo verification and Ethernet connection



Device compatibility

Check

Connection possibilities

Number of Superior ReX G3 Jeweller connected to the hub

up to 5

For all compatible hub models.

Number of devices connected to Superior ReX G3 Jeweller

up to 249

Depends on the hub model.

Wireless communication

Data transfer protocols

Superior Jeweller

To transmit commands, alarms, and events. An upgraded version of the Jeweller radio protocol for Superior devices, ensuring compliance with Grade 3 (EN 50131). If at least one device operates via the regular Jeweller protocol, the system will be limited to Grade 2: encryption remains, but frequency hopping is disabled.

Jeweller

To transmit commands, alarms, and events from devices without Superior Jeweller support.

Wings

To transmit large data packets, such as firmware updates, and photos.

Learn more

Frequency bands

865.0–868.0 MHz
868.0–868.6 MHz
868.7–869.2 MHz
869.4–869.65 MHz

Radio communication range

up to 3,500 m

Between a hub and a radio signal range extender, or between a range extender and connected devices (in an open space). The maximum range depends on the connected device and the hub model.

Learn more

Maximum effective radiated power (ERP)

up to 20 mW

Automatic power control to reduce power consumption and radio interference.

Radio signal modulation

GFSK

Advanced encrypted communication

The communication between the device and the hub is protected by an advanced encryption scheme that ensures data confidentiality and integrity.

Enhanced frequency hopping

To prevent radio interference and jamming. For enhanced hopping to function, all devices in the system must use the Superior Jeweller protocol. If even one device uses the regular Jeweller protocol, hopping will be limited to only 2 frequencies.

Learn more

Recommendations

The device operating voltage is 110–240 V~.

Superior ReX G3 Jeweller is designed for indoor installation only.

Communication channels

Ethernet

1 × 8P8C socket

Up to 100 Mbps.



External antenna connectors

Jeweller
Wings

The system will notify of the damaged antenna. Ajax ExternalAntenna is sold separately.



Delivery time

Alarm delivery time to the hub

0.3 s

Photo delivery time to the hub

18 s

Via Superior ReX G3 Jeweller using the Wings channel. Delivery time depends on the settings.

10 s

Via Superior ReX G3 Jeweller using the Ethernet channel. Delivery time depends on the settings.

Learn more

Sabotage protection

Tamper alarm

The system receives notifications about attempts to detach the device from the surface or remove it from the mounting panel.

Learn more

Protection against spoofing

device authentication

Frequency hopping

The system sends notifications to all users and the security company of jamming or losing connection with the devices.

Learn more

Jamming alert

Superior ReX G3 Jeweller analyzes the channel’s noise level and the quality of communication with added devices and sends an alert in 30 seconds.

Communication loss detection

after 36 s

Detection time depends on the Jeweller/Fibra settings.

Learn more

Power supply

Main power supply type

Type A.

Device operating AC voltage range

110–240 V, 50/60 Hz

From the main power supply. Up to 15 W of mains power consumption.

Device operating DC voltage range

6.0–8.2 V⎓

Low battery voltage

7.0 V⎓

Low battery recovery voltage

8.135 V⎓

End-of-life battery voltage

6.0 V⎓

Superior ReX G3 Jeweller is switched off.

Minimum backup battery energy level in the charged state

100%

Autonomous operation

On Superior Internal Battery (16h)

up to 16 hours

When Ethernet is enabled. Superior Internal Battery (16h) is not included in the complete set.

On Superior Internal Battery (60h)

up to 60 hours

When Ethernet is enabled. Superior Internal Battery (60h) is not included in the complete set.

Learn more

Current consumption

Maximum at nominal voltage

87 mA

Quiescent at nominal voltage*

up to 87 mA

When Ethernet is enabled.

up to 29 mA

When Ethernet is disabled.

* From the backup battery after the loss of the main power supply.

Enclosure

Dimensions

216 × 216 × 45 mm



Weight

1,200 g

Operating temperature range

from −10 °C to +40 °C

Operating humidity

up to 75%

Protection class

IP20

Colors

Black



White

Complete set

Superior ReX G3 Jeweller

SmartBracket mounting panel

Power cable

Ethernet cable

Installation kit

Quick start guide

Additional information

Compliance with standards

Learn more

User manual

Learn more

Warranty

24 months

Learn more

Subscribe

Subscribe to our emails about secure life. No spam.

Subscribe

Request extra help

support@ajax.systems

@AjaxSystemsSupport_Bot

Send a request

Trustpilot

Rating 4.8

4,000,000

people worldwide under Ajax protection

Suggest a feature

Products

Intrusion protection

Video surveillance

Fire and life safety

Comfort and automation

All products

Services

System integrations

Ajax Ready products

Fibra wired protocol

Ajax radio protocols

Software

Ajax Security System

Ajax PRO: Tool for Engineers

Ajax Desktop

Ajax PRO Desktop

Ajax TV

Ajax Translator PRO

Ajax Cloud Signaling

Scenarios

Available on App Store

Available on Google Play

Solutions

Customer stories

Solutions by facility type

Commercial fire detection and alarm system

Wireless Grade 3 solution

Upgrades and retrofits

Why Ajax

How it works

Support

Manuals and articles

Compliance with standards

Tools

Ajax device compatibility

CMS software compatibility

Ajax Services availability

Video storage calculator

Video device calculator

Battery life calculator

Radio communication range calculator

Switches and outlets configurator

Fibra power supply calculator

All web tools

Monitoring solutions and integrations

Intrusion alarm monitoring

Video monitoring and visual alarm verification

Audio alarm verification

Company

Blog

About us

Press page

Events

Career

Ajax Next

Reviews and feedback

For partners

For partners

Ajax Academy

Partner Portal

© 2026 AJAX SYSTEMS CH. All rights reserved