# SpeakerPhone Jeweller

Wireless voice module for alarm verification

| **Devices compatibility** | **Hub 2 (4G) Jeweller**With firmware version OS Malevich 2.24 or later.**Hub Hybrid (4G)**With firmware version OS Malevich 2.25 or later. |
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| **Communication** | **VoRF communication technology**Proprietary wireless audio streaming protocol using time division duplex.Key features:* Two-way communication.
* Advanced sabotage protection.
* Full duplex audio communication.

**Radio communication range**up to 1,700 mup to 5,550 ftBetween the device and a hub in an open space.**Frequency band**863.0–865.0 MHz**Jeweller communication technology**Proprietary wireless communication technology to transmit commands, alarms, and events.Key features:* Two-way communication.
* Advanced sabotage protection.
* Block encryption featuring a dynamic key.
* Instant notifications.
* Remote control and configuration in Ajax apps.

**Frequency bands**866.0–866.5 MHz868.0–868.6 MHz868.7–869.2 MHz905.0–926.5 MHz915.85–926.5 MHz921.0–922.0 MHzDepends on the sales region.**Maximum effective radiated power (ERP)**up to 25 mWAutomatic power control to reduce power consumption and radio interference.**Radio signal modulation**GFSK**Radio communication range**up to 1,700 mup to 5,550 ftBetween the device and a hub in an open space.**Encrypted communication**All stored and transmitted data are protected by block encryption featuring a dynamic key.**Frequency hopping**To prevent radio interference and jamming.**Wings communication technology**Proprietary wireless communication technology to update firmware.Key features: * Two-way communication.
* Advanced sabotage protection.
* Block encryption featuring a dynamic key.
* Reloading the data packages in case of transmission errors.

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| **Key features** | **AI-powered sound optimization**It provides:* Clear voice transmission.
* Suppression of extraneous noise.
* Improved audibility even at long distances.
* Option to set up the AI feature in Ajax apps.

**Voice audibility**up to 10 mAuto adjustment of the microphone sensitivity.**Output speaker power** 3 W**Speaker volume** up to 103 dB83 dB at a distance of 1 m.**Frequency range** from 200 Hz to 16 kHz**Audio codec**Opus**Remote firmware update**When a new firmware is available, an admin or PRO with the rights to configure the system can run the update in Ajax apps.**The hub must be connected to Ajax Cloud via Ethernet.** |
| **Recommendations** | It is recommended to install the device at a height of 1.6 m.It is recommended to install the device at a height of 5.2 ft.The device is designed for indoor use only. |
| **Sabotage protection** | **Tamper alarm**Notifications on attempts to detach the device from the surface.**Microphone cut-off detection**Notifications of attempts to damage an in-built microphone.**Holding screw**To secure the device on SmartBracket.**Protection against spoofing**device authentication**Communication loss detection**after 36 sDetection time depends on the Jeweller settings. |
| **Power supply** | **Battery**4 × CR123Pre-installed.**Calculated battery life**up to 3 yearsIn a standby mode.up to 12 hoursIn a conversation mode.**Optional external power supply**12 V⎓, 1 AThe power supply cable length should not exceed 10 m when using the 2 × 0.35 copper-conductor cable. When the external power supply is connected, the batteries operate as a backup power source.The power supply cable length should not exceed 32 ft when using the 2 × 0.35 copper-conductor cable. |
| **Enclosure** | **Dimensions**112 × 112 × 42 mm4.41" × 4.41" × 1.65"**Weight**270 g9.52 oz**Operating temperature range**from 0 °C to +40 °Cfrom 32 °F to 104 °F**Operating humidity**up to 75%**Protection class**IP50 |
| **Colors** | BlackWhite |
| **Complete set** | SpeakerPhone JewellerSmartBracket mounting panelInstallation kitQuick start guide |
| **Warranty** | 24 months |