# 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 m  up to 5,550 ft  Between 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 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  Automatic power control to reduce power consumption and radio interference.  **Radio signal modulation**  GFSK  **Radio communication range**  up to 1,700 m  up to 5,550 ft  Between 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.   **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.  **Radio signal range**  up to 1,700 m  up to 5,550 ft  Between 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.  **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 m  up to 5,550 ft  Between the device and a hub in an open space.  **Frequency band**  863.0–865.0 MHz |
| **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 m  Auto adjustment of the microphone sensitivity.  **Output speaker power**  3 W  **Speaker volume**  up to 103 dB  83 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 s  Detection time depends on the Jeweller settings. |
| **Power supply** | **Battery**  4 × CR123  Pre-installed.  **Calculated battery life**  up to 3 years  In a standby mode.  up to 12 hours  In a conversation mode.  **Optional external power supply**  12 V⎓, 1 A  The 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 mm  4.41" × 4.41" × 1.65"  **Weight**  270 g  9.52 oz  **Operating temperature range**  from 0 °C to +40 °C  from 32 °F to 104 °F  **Operating humidity**  up to 75%  **Protection class**  IP50 |
| **Colors** | Black  White |
| **Complete set** | SpeakerPhone Jeweller  SmartBracket mounting panel  Installation kit  Quick start guide |
| **Warranty** | 24 months |