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.

| 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