

ReX 2

Radio signal range extender supporting photo verification of alarms

Connection possibilities	Number of ReX 2 Jeweller connected to the hub 5 For all compatible hub models. Number of devices connected to ReX 2 Jeweller up to 199 Depends on the hub model. Only Hub 2 Plus Jeweller and Hub 2 (4G) Jeweller are under certification by UL.
Communication	Jeweller communication technology Proprietary wireless communication technology to transmit commands, alarms, and events. Key features: <ul style="list-style-type: none">• Two-way communication.• Advanced anti-sabotage.• 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. <i>* Certified according to UL/ULC standards.</i> Maximum effective radiated power (ERP) up to 20 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 5,600 ft

Between the range extender 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 transmit photo verifications.

Key features:

- Two-way communication.
- Advanced anti-sabotage.
- Block encryption featuring a dynamic key.
- Data packages reload in case of transmission errors.
- Photo delivery check.

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.

** Certified according to UL/ULC standards.*

Radio communication range

up to 1,700 m

up to 5,600 ft

Between the range extender and a hub in an open space.

Encrypted communication

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	<p>Ethernet 1 8P8C socket (up to 100 Mbps) An alternative or main communication channel to transmit events, alarms, and photos.</p>
Delivery time	<p>Alarm delivery time to the hub 0.3 s</p> <p>Photo delivery time to the hub 18 s Via ReX 2 Jeweller using the Wings channel. Delivery time depends on the settings.</p> <p>10 s Via ReX 2 Jeweller using the Ethernet channel. Delivery time depends on the settings.</p>
Recommendations	<p>The device operating voltage is 110–240 V~. ReX 2 Jeweller is designed for indoor use only.</p>
Sabotage protection	<p>Tamper alarm Notifications on attempts to detach the device from the surface or remove it from the mounting panel.</p> <p>Protection against spoofing device authentication</p> <p>Communication loss detection after 36 s Detection time depends on the Jeweller or Jeweller/Fibra settings.</p>
Power supply	<p>Main 110–240 V, 50/60 Hz Up to 6 W of mains power consumption.</p> <p>Backup built-in battery Li-ion 2 Ah Calculated battery life:</p> <ul style="list-style-type: none"> • Up to 38 hours of backup battery life. ReX 2 Jeweller average consumption is up to 41* mA when Ethernet is disabled. • Up to 12 hours of backup battery life. ReX 2 Jeweller average consumption is up to 161* mA when Ethernet is enabled. • Up to 4 hours of maximum time to recharge a backup battery of maximum capacity to 80% of its rated capacity. <p><i>* From the backup battery after the loss of the main power supply.</i></p>

built-in backup battery

Rechargeable Li-ion Polymer Battery XK 953562T

3.7 V_{DC}, 2 Ah

Calculated battery life:

- **Up to 24 hours** of backup battery life when Ethernet is disabled.
- **Up to 12 hours** of backup battery life when Ethernet is enabled.

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

Manufacturer

Dongguan Lean Power

UL listed.

Type

type A

Power supply is used inside the supervised premises.

Quiescent device's current consumption at nominal voltage

14.5 mA

Maximum device's current consumption at nominal voltage

95.8 mA

Low battery voltage

3.7 V_{DC}

Low battery recovery voltage

4.1 V_{DC}

End-of-life battery voltage

3.6 V_{DC}

Device is switched off.

Minimum energy level for a backup battery in the charged state

100%

Alternative

6 V_{DC}

Connected via an alternative power supply unit* 6V PSU for Hub 2/Hub 2 Plus/ReX 2 which is **sold separately**.

12 or 24 V_{DC}

Connected via an alternative power supply unit* 12–24V PSU for Hub 2/Hub 2 Plus/ReX 2 which is **sold separately**.

	* Not evaluated by UL.
Enclosure	<p>Dimensions 163 × 163 × 36 mm 6.42" × 6.42" × 1.42"</p> <p>Weight 410 g 14.46 oz</p> <p>Operating temperature range from -10 °C to +40 °C from 14 °F to 104 °F Temperature range from 32 °F (0 °C) to 120 °F (+49 °C) is certified according to UL/ULC standards.</p> <p>Operating humidity up to 75% Humidity of up to 93% is certified according to UL/ULC standards.</p> <p>Protection class IP20</p>
Colors	<p>Black White</p>
Complete set	<p>ReX 2 Jeweller SmartBracket mounting panel Power cable Screw terminal block Adapter (only for INCERT compliance) Ethernet cable Installation kit Quick start guide</p>
Warranty	24 months