
Wireless Siren with Rechargeable Battery Backup

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Wireless Sensor Network Based on LoRa Technology



R602B

Data Sheet

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Introduction

R602B is a smart wireless alarm that can communicate with other devices through a wireless network. It has a high-decibel speaker and high-brightness LED which can realize sound and light alarms. It adopts SX1276 wireless communication module.

The power supply mode is DC 12V adapter, and 3 sections AAA Ni-MH rechargeable batteries (1.2V/section) are connected in series as backup power supply.

Main Characteristic

- Compatible with LoRaWAN™ Class C
- Frequency hopping spread spectrum (FHSS)
- A high-decibel speaker and high-brightness LED, it can be used as a sound and light alarm
- The payload can remotely turn off the sound individually or turn off both lights and sounds
- The power supply mode is DC 12V adapter, and 3 sections AAA Ni-MH rechargeable batteries (1.2V/section) are connected in series as backup power supply.
- Applicable to the third-party platforms: Actility/ThingPark, TTN, MyDevices/Cayenne

Application

- Smart home
- Shopping mall
- Other

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Electric

Input Power	DC 12V
Working Current (max)	250mA (DC 12V)
Standby Current (max)	30mA (DC 12V)
Backup rechargeable battery	3 sections 1.2V AAA Ni-MH rechargeable batteries
Average working current of backup rechargeable battery (without DC power supply)	25mA (when no alarm)
Backup rechargeable battery once full use time	about 24 hours
Backup rechargeable battery low voltage alarm voltage	3.6V
Alarm Sound Decibel	≥80dB
The Brightness Of Warning Lights	LUX(TBD)

Frequency

Frequency Range	863MHz-928MHz 470MHz-510MHz
TX Power	US915 20dbm; AS923 16dbm; AU915 20dbm; CN470 19.15dbm; EU868 16dbm; KR920 14dbm; IN865 20dbm;
Receiving Sensitivity	-136 dBm (LoRa, Spreading Factor=12, Bit Rate = 293bps) -121 dBm (FSK, Frequency deviation=5kHz, Bit Rate=1.2kbps)
Antenna Type	Build-in antenna
Communication Distance	10 km (Visible linear obstacle-free transmission distance, actual transmission distance depending on the environment.)

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Data Transfer Rate	0.3kbps ~ 50kbps (LoRa) 1.2kbps ~ 300kbps (FSK)
Modulation	LoRa / FSK (Note: choose one of them)
Supportable LoRaWAN Frequency	EU863-870, US902-928, AU915-928, KR920-923, AS923-1, AS923-2, AS923-3, IN865-867, CN470-510 (Note: The frequency band is optional and needs to be configured before shipment.)

Physical

Dimension	Ø85mm * 52mm
Environment Temperature	-20°C ~ 55°C
Environment Humidity Range	<90% RH (No condensation)