

Wireless Customized Voice Announcer

R603 Datasheet

Wireless Network Based on LoRa Technology



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Wireless Customized Voice Announcer

Introduction

R603 is a wireless customized voice announcer. With programmable RGB light and 16MB capacity for 10 audios to upload, you can personalize each event by setting different light colors and alarm sounds. In addition, it is powered by DC 12V and supported by three 1.2V AAA Ni-MH backup batteries as an outage occurs. R603 reminds you of an upcoming event, ensuring everything is on track.

Features

- Upload alarm sounds through Type-C cable
- Recurring alarm setting
- Programmable RGB LED color
- 2 LED flash modes
- Adjustable volume and mute mode
- 12V power supply
- Backup power (3* 1.2V AAA Ni-MH batteries)
- IP30
- Compatible with LoRaWAN™ Class C
- Frequency hopping spread spectrum technology
- Configure parameters through third-party software platforms, read data, and set alarms via SMS text and email (optional)
- Applicable to third-party platforms: Actility / ThingPark, TTN, MyDevices / Cayenne

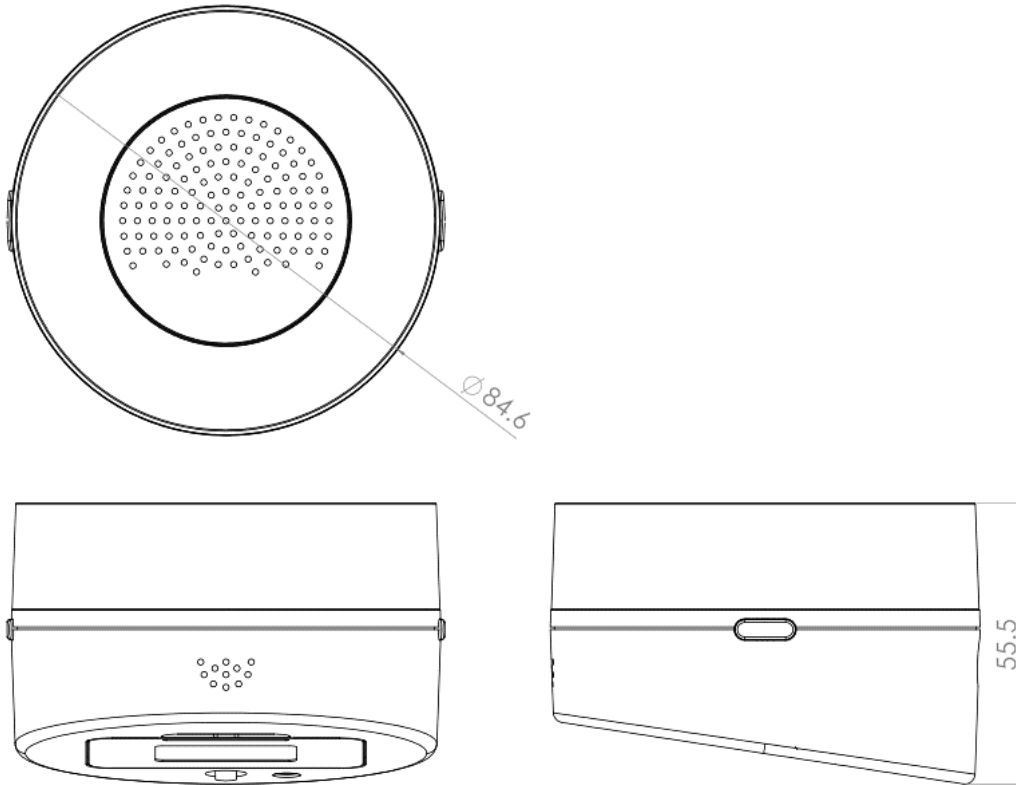
Applications

- Smart home
- Mall
- Poor air quality, high temperature, burglar, welcome, and smoking alarm

Wireless Customized Voice Announcer

Dimensions

Ø84.6mm x 55.5mm



Electrical Specifications

Power Supply	12V power adapter
Operating Current (Max.)	250mA
Standby Current (Max.)	30mA
Backup Power	3* 1.2V AAA Ni-MH batteries in series
Battery Average Operating Current	25mA (typical value) Note: The data was obtained when DC does not power the device and the alarm is not triggered.
Operating Time after Fully Charged	About 24 hours
Low Battery Alarm	3.6V
dB of alarm	≥80dB (3 meters away from device)

Note: The electrical specifications may vary due to the voltage of the power supply.

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Frequency

Frequency Range	863MHz-928MHz 470MHz-510MHz
Tx Power	US915 20dbm AS923 16dbm AU915 20dbm CN470 19.15dbm EU868 16dbm KR920 14dbm IN865 20dbm
Rx Sensitivity	123 dBm for 2-FSK (at 1.2 Kbit/s), -148 dBm for LoRa® (at 10.4 kHz, spreading factor 12)
Antenna Type	Built-in antenna
Communication Range	10km (line of sight) Note: The actual transmission distance depends on the environment.
Data Transfer Rate	0.3kbp–50kbps (LoRa); 0.6kbps–300kbps (FSK)
Modulation	LoRa / FSK Note: One modulation method is required.
Available LoRaWAN Band	EU863-870, US902-928, AU915-928, KR920-923, AS923-1, AS923-2, AS923-3, IN865-867, CN470-510 Note: optional and need to be configured before shipment

Physical Properties

Dimensions	Ø84.6mm x 55.5mm
Ambient Temperature	-20°C to +55°C
Ambient Humidity	<90%RH (no condensation)