

WLRI-EB2



Wireless Emergency Push Button

A supervised wireless push-button that is reliable and has long battery life. It can be used for various functions that need notification instantly. Using our smart controller other devices can be linked such a siren or control devices.

Features:

- Super Long Range Signal Penetration
- 5 years plus Battery Life*
- Easy Installation
- Frequency Hopping Spread Spectrum (FHSS)
- Improved interference immunity
- Encrypt-RF™ Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- Over-the-air updates
- Interactive WatchNET IoT platform with dashboard, search and notification settings



Applications:

- Emergency restroom help button
- Emergency buttons in parking garage
- School/Campus safety
- Construction sites and factories

Schematic Diagram:

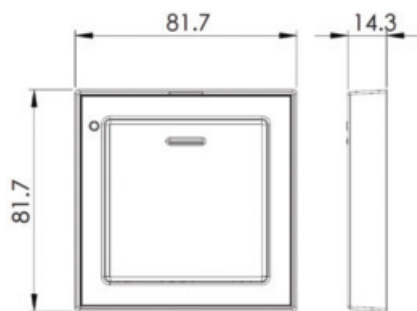


Wireless Emergency Alert System

Technical Specifications

Electrical	
Power Supply	2*AAA batteries
Operating Voltage	2.1V-3V
Standby Current	14uA
Transmitting Current (max)	120mA/3.0
Receiving Current (max)	11mA/3.0V
Frequency	
TX Power	19dBm±1dBm
Rx Sensitivity	-121dBm (FSK, Frequency deviation=5kHz, Bit Rate=1.2kbps) -136dBm (LoRa, Spreading Factor=12, Bit Rate=293bps)
Antenna Type	Built-in antenna
Communication Range	Up to 500m/0.310miles (line-of-sight, the actual transmission distance depends on the environment)*
Data Transfer Rate	0.3kbps~50kbps
Spread Technique	LoRa/FSK
Available Frequency	EU863-870, US902-928, Configured before shipment
Physical	
Dimension	81.7 x 81.7mm x 14.3mm / 3.22" x 3.22" x 0.56"
Weight	280g / 0.62lb
Protection class	Main Part IP40
Environment Temperature Range	-20°C ~ 55°C / -4°F ~ 131°F
Environment Humidity Range	<90%RH
Storage Temperature	-40°C ~ 85°C / -40°F ~ 185°F

Dimensions



* Actual signal range may vary depending on the environment.

* Battery life is determined by sensor reporting frequency and other variables.

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Rev. Dec., 2021

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