



WLRI-SR1



Multi function Annunciator

This wireless annunciator can be used with any WatchNET IoT devices to generate sirens which can be triggered by a condition/event of another device. This device has high powered speakers and LEDs to seek the attention of personnel around. Multiple alert tones can be assigned to different alarm conditions.

Features:

- Super Long Range Signal Penetration
- 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
- DC +12V Power



Applications:

- Condominium concierge
- Shopping mall security desks
- Elderly care
- Disabled washroom alert
- Water leak sirens
- Smoke alarm sirens
- Activity detection alarms
- Emergency button sirens

Schematic Diagram:



Technical Specifications

Electrical	
Input Power	DC +12V
Working Current (max)	250mA (DC 12V)
Standby Current (max)	30mA (DC 12V)
Alarm sound level (at three meters)	>=80dB
Alarm light illumination	LUX(TBD)
Frequency	
Frequency Range	863MHz-928MHz 470MHz-510MHz
TX Power	19dBm±1dBm
Rx Sensitivity	-136dBm (LoRa, Spreading Factor=12, Bit Rate=293bps) -121dBm (FSK,Frequency deviation=5kHz, Bit Rate=1.2kbps)
Antenna Type	Built-in antenna
Communication Range	Up to 500m/0.310miles, 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	Φ85mm x 52mm / Φ3.35" x 2.05"
Weight	48.9g / 0.11lb
Environment Temperature Range	-20°C ~ 55°C / -4°F ~ 131°F
Environment Humidity Range	<90%RH (No condensation)

* Actual signal range may vary depending on the environment.

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