Smart Button

Featuring LoRaWAN®

WS101

Milesight WS101 is a LoRaWAN®-based smart button for wireless controls, triggers and alarms. WS101 supports multiple press actions, all of which can be defined by the user to control devices or trigger scenes. Besides, Milesight also provides a red button that is primarily used to send SOS alarms. Compact and battery-powered, WS101 is easy to install and carry everywhere. Compliant with Milesight LoRaWAN® gateways and Milesight IoT Cloud solutions, users can know the alarms and use the WS101 to easily trigger other sensors or appliances remotely via web or mobile Apps.

WS101 can be widely used in smart homes, smart offices, hotels, schools, etc.

◆ Features

- Support multiple press actions to control devices, trigger a scene or send emergency alarms
- Easily to install or carry with the convenient size
- Built-in LED indicator and buzzer for press actions, network status, low battery indication
- Ultra-wide-distance wireless transmission: 15 km in line of sight scene
- Equipped with NFC for one-touch configuration and support card emulation mode
- Support Milesight LoRa D2D protocol to enable ultra-low latency and directly control without gateway

- Function well with standard LoRaWAN® gateways and network servers
- Compliant with Milesight IoT Cloud

Specifications

Wireless Transmission	
Technology	LoRaWAN®, LoRa D2D
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Tx Power	16 dBm (868 MHz)/22 dBm (915 MHz)/19 dBm (470 MHz)
Sensitivity	-137 dBm @300bps
Mode	OTAA/ABP Class A
Interface	
Button	1 × External Button + 1 × Reset Button (Internal)
LED Indicator	1
Buzzer	Support
Software	
Configuration	NFC Configuration via Mobile App
Advanced Feature	LoRa D2D Controller
Physical Characteristics	
Power Supply	1 × 1650 mAh ER14335 Li-$SOCl_2$ battery
Battery Life*	Over 5 years (1080 min interval + 10 presses per day)
Operating Temperature	-20°C to +60°C
Relative Humidity	≤90% (non-condensing)
Ingress Protection	IP30
Dimension	50 × 50 × 18 mm (1.97 × 1.97 × 0.71 in) Button: Φ20 mm (Φ0.79 in)
Material	Anti-flaming Polycarbonate
Color	White (Button: White/Red Optional)
Installation	On the flat surfaces with screws or 3M tapes, Lanyard
Approvals	
Regulatory	CE, FCC, RoHS

* Tested under laboratory conditions and for guideline purposes only.