Smart Button

Featuring LoRaWAN®

WS101



WS101 is a LoRaWAN®-based smart button for wireless controls, triggers and alarms[1]. 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 Development Platform solutions, users can know the alarms and use the WS101 to easily trigger other sensors or appliances remotely.

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 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 and Milesight Development Platform

◆ Specifications

Wireless Transmission	
Technology	LoRaWAN®, Milesight D2D
Antenna	Internal Antenna
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
Button	
Button	1 × External Press Button
Button Mode	Short Press, Long Press, Double Press
Others	
Button	1 × Reset Internal Button
LED Indicator	1 × Status/Alarm Indicator
Buzzer	1 × Buzzer
Software	
Configuration	Mobile App via NFC or Downlink
Advanced Feature	Milesight D2D Controller
Physical Characteristics	
Power Supply	1 × 1650 mAh ER14335 Li-$SOCl_2$ battery
Battery Life[2] (1080-min report interval, 10 presses per day, 25°C)	Around 9.5 Years (SF7, EU868) Around 7.7 Years (SF10, EU868) Around 9.3 Years (SF7, US915) Around 7.1 Years (SF10, US915)
Operating Temperature	-20°C ~ 60°C
Relative Humidity	≤90% (non-condensing)
Ingress Protection	IP30
Housing	Anti-flaming Polycarbonate
Color	White (Button: White/Red Optional)
Weight	38.8g (Battery Included)
Dimension	50 × 50 × 18 mm (1.97 × 1.97 × 0.71 in) Button: Φ20 mm (Φ0.79 in)
Installation	On the flat surfaces with screws or 3M tapes, Lanyard

Approvals	
Regulatory	CE, FCC, LoRaWAN® Certified
Environmental	RoHS

[1]: This product is intended to provide a convenient call or control function, but should not be used as the sole emergency response tool. In an emergency, you should take appropriate measures to ensure your own safety. For details please refer to Disclaimer and Important Information.

[2]: Tested under laboratory conditions and for guideline purposes only.

◆ Ordering Information

Model	PN	Description
WS101	Scene	Button Color: White
	SOS	Button Color: Red

◆ Dimensions (mm)

