Milesight

iBox

CoWork KIT DATASHEET

Milesight IoT Cloud

◆ Introduction

Milesight iBox CoWork Kit offers an easy-to-install LoRaWAN® smart office monitoring and control solution including a series of CoWork sensors, gateway and cloud platform. This kit can transform your environment into a smart, interconnected and comfortable space.
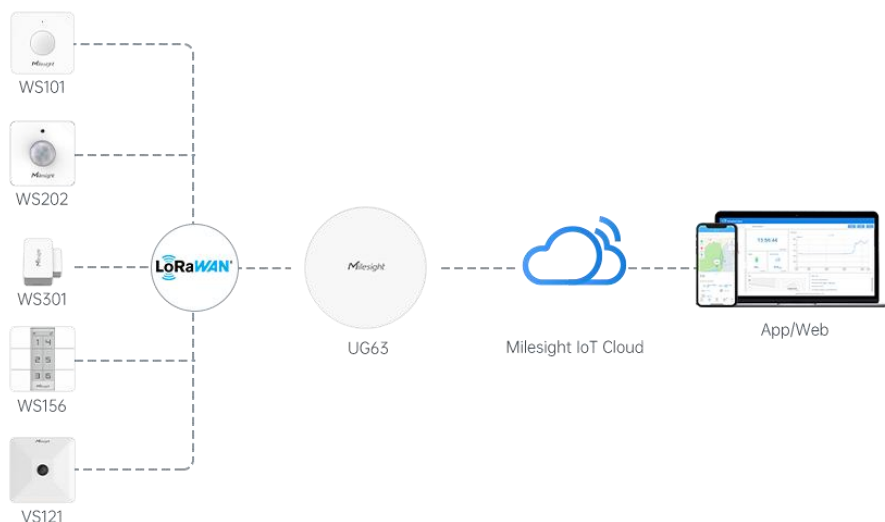
◆ Device List

Qty	Model	Description	LoRaWAN® Channel Plan
1	WS101	Smart Button	CN470/RU864 /IN865/EU868/AU915 /US915/KR920/AS923
1	WS202	PIR & Light Sensor	
1	WS301	Magnetic Contact Switch	
1	WS156	Smart Scene Panel	
1	VS121	AI Workplace Sensor	
1	UG63	Mini LoRaWAN® Gateway	
1 Year	Milesight IoT Cloud	Pro 1 Standard Subscription	/

◆ Benefits

- Compact and futuristic design to suit offices, classrooms and any other indoor environment
- Plug and play, set up a simple LoRaWAN® network quickly within a few steps
- Support worldwide LoRaWAN® frequency plans including 470 MHz to 928 MHz
- Support local alarms via indicator & buzzer or remote email and mobile push notifications
- Customize dashboards and maps to know the indoor environment status intuitively

◆ Application Topology

◆ Features

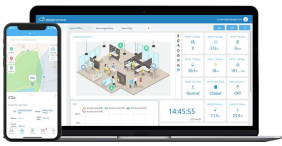| Item	Description	Applications
WS101 **Smart Button**	WS101 smart button sensor supports different alerts depending on various press actions and can be used in emergency alarm system, remote control or other remote push button applications.	● Easy to be carried out by the seniors and the disabled or to be installed anywhere ● Remote control like lights or curtains in Smart Office
WS202 **PIR & Light Sensor**	WS202 sensor detects the movement based on passive infrared technology and also equips with light sensor which can link PIR detection so as to control the lights to turn on/off automatically when people are coming or leaving.	● Meeting room or occupancy detection ● Asset protection ● Intelligent light control
WS301 **Magnetic Contact Switch**	WS301 sensor uses a magnet to detect the open/close status of door/window or something has been moved. It's wire-free and can be easily mounted on the doors, panes, cabinets, etc.	● Entry/fire door monitoring ● Asset protection in the cabinets or boxes ● Suitable for offices, homes or factories applications
WS156 **Smart Scene Panel**	WS156 has 6 buttons to define 6 scenes and each scene can consist of multiple device controls. Besides, it equips a programmable E-ink screen which can customize the display content depending on scenarios.	● Remote control or alarms ● Suit for offices, hotels or schools
VS121 **AI Workplace Sensor**	VS121 counts people based on AI technology and can monitor the occupancy and utilization in workplaces.	● Meeting room or sitting room occupancy monitoring ● Line crossing counting

UG63 Mini LoRaWAN® Gateway

UG63 mini indoor LoRaWAN® gateway provides stable connectivity between sensors and mainstream network servers or Milesight IoT cloud.

- Collect data from LoRaWAN® sensors
- Forward data to Milesight IoT Cloud or mainstream network servers via Ethernet

Milesight IoT Cloud

Milesight IoT Cloud provides unparalleled levels of vertical integration with Milesight LoRaWAN® gateways and sensors. It visualizes field data and enables user to monitor and control remote assets on an intuitive dashboard.

- Drag & drop dashboard to display data
- Real-time alarm notifications
- Exportable historical data and generate reports
- Custom trigger conditions & actions to enable collaborative interaction among end-devices
- Android & iOS versions available

◆ Specifications

➢ CoWork Sensors

Model	WS101	WS202	WS301	WS156	VS121
Sensors					
Sensor Type	Push Button	Movement & Light Status	Magnetic Contact Switch	6 Scenes Controls	People Counting
Detection Range	-	120 ° H, 100 ° V, Max 8 m	15-20 mm Distance	-	190 ° H, 112° V, 3m Height
LoRa D2D	√	√	√	√	√
Hardware Interfaces					
Screen	-	-	-	2.9 Inch E-ink	-
LED	√	√	√	√	√
Buzzer	√	-	-	-	-
Reset Button	√	√	√	√	√
Tamper Button	-	-	√	-	-
Configuration	NFC	NFC	NFC	NFC	Wi-Fi (2.4 GHz)
Physical Characteristics					
Power Supply	1 × 1650 mAh ER14335 Li-SOCl$_2$ Battery		1 × 1200 mAh ER14250 Li-SOCl$_2$	2 × 590 mAh CR2450 Lithium	5V/1A by Type-C

			Battery	Coin Cell Batteries	
Battery Life	Over 3 Years	Over 4 Years	Over 5 Years	Over 3 Years	-
Dimension	50 × 50 × 18 mm	50 × 50 × 23.8 mm	Sensor: 50.5 × 31 × 18.5 mm Magnet: 30 × 13.5 × 10 mm	86 × 86 × 14 mm	85 × 85 × 20 mm
Operating Temperature	-30 to +60 °C	-30 to +60 °C	-20 to +60 °C	-10 to +50 °C (E-Ink Screen: 0 to +50 °C)	-5 to +55 °C
Ingress Protection	IP30	IP30	IP20	IP30	IP20
Installation	On Flat Surfaces with Screws or 3M Tapes				Ceiling Mount

➤ UG63 Mini LoRaWAN® Gateway

LoRaWAN	
Chip	SX1302
Antenna	2 × Internal Antennas
Channel	8 (Half/Full-Duplex)
LBT	Support
Package Forwarder	Semtech, Basic Station, Chirpstack, etc.
Network Server	Support
Hardware Interfaces	
Ethernet Port	1 × 10/100/1000 Mbps (PoE PD)
Console Port	1 × Type-C
LED Indicators	1 × SYS, 1 × LoRa
Reset Button	1 × RST
Built-in	Watchdog, RTC, Timer
Physical Characteristics	
Power Supply	1. 1 × 802.3af Standard PoE Input 2. 5V by Type-C Port
Operating Temperature	-20°C to +50°C
Ingress Protection	IP30
Dimension	Φ 115 × 21 mm
Installation	Desktop, Wall or Ceiling Mounting

Click here to get more specification details.

➤ Milesight IoT Cloud

Features	Free	Pro 1	Pro 2	Pro 3
Manage Device				
Manage numbers (gateways + sensors)	10	50	100	300
Check historical data and chart		√		
Export historical data and chart		√		
Dashboard				
Create dashboards	2	10		
Widgets per dashboard	20	50		
Add custom map and charts		√		
Share the dashboard		√		
Control device in dashboard		√		
Trigger				
Add trigger rules	20	100	200	600
Trigger execution times monthly	1,000	5,000	10,000	30,000
Report				
Generate daily/weekly/monthly report	-	√		
Send reports via Emails	-	√		
Check and export historical report	-	√		
Event Notification				
Record device status and threshold events		√		
Send Email notifications monthly	100	1,000		
Share and Transfer				
Share devices to other accounts with different permissions	-	√		
Transfer devices to other accounts		√		

Contact Milesight sales if you need to upgrade the subscription in the kit.