

IAQ KIT DATASHEET



LINOVISION iBox IAQ Kit offers an easy-to-install LoRaWAN® indoor air quality monitoring solution including ambience monitoring sensors, gateway and cloud platform. This kit can definitely bring comfort feels to your indoor space by monitoring the temperature, humidity, concentration of CO₂, and many more environment data .

Device List

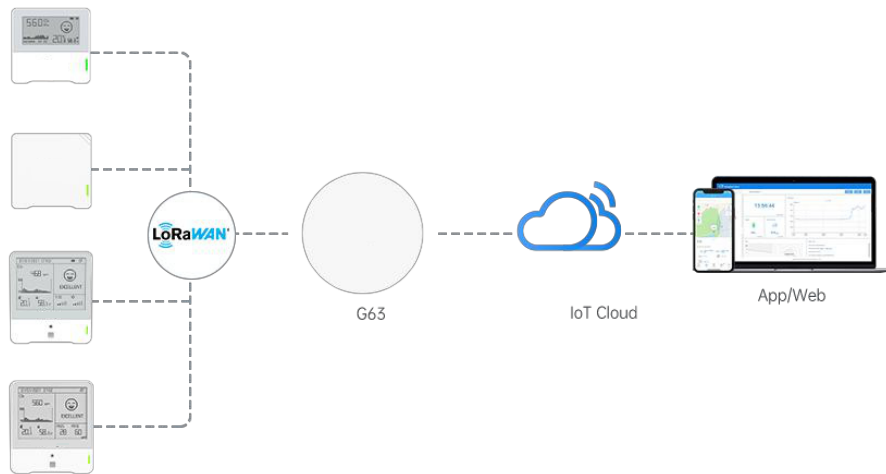
Set A:

Qty	Model	Description	LoRaWAN® Channel Plan
1	IOT-S500-IAQ3	Indoor Ambience Monitoring IAQ Sensor	CN470/RU864/IN865/EU868/ AU915/US915/KR920/ AS923-1&2&3&4
1	IOT-S500-IAQ3L		
1	IOT-S500-IAQ7		
1	IOT-S500-IAQ11		
1	IOT-G63	Mini LoRaWAN® Gateway	
1 Year	Linovision IoT Cloud	Pro 1 Standard Subscription	/

Set B:

Qty	Model	Description	LoRaWAN® Channel Plan
2	IOT-S500-IAQ3	Indoor Ambience Monitoring IAQ Sensor	CN470/RU864/IN865/EU868/ AU915/US915/KR920/ AS923-1&2&3&4
2	IOT-S500-IAQ7		
1	IOT-G63	Mini LoRaWAN® Gateway	
1 Year	Linovision IoT Cloud	Pro 1 Standard Subscription	/

Application Topology



Benefits

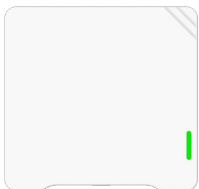
- Compact and futuristic design to suit offices, classrooms and any other indoor environment
- Plug and play, set up a LoRaWAN® solution quickly within a few steps
- Support worldwide LoRaWAN® frequency plans including 470 MHz to 928 MHz
- Monitor data locally via E-inkscreen or remotely via cloud webpage or mobile App
- Support local alarms via traffic light indicator and buzzer or remote email & mobile push notifications
- Customize dashboards and maps to know the indoor environment status intuitively

Features

Description

Applications

IOT-S500-IAQ3L sensor



IOT-S500-IAQ3L is a 3-in-1 ambience monitoring sensor including the measurement of temperature, humidity and CO₂ concentration and can transmit to network server using LoRaWAN® technology.

- Monitor temperature, humidity and CO₂ levels
- Indicate CO₂ levels via traffic light
- Suitable for office or school indoor air quality monitoring

IOT-S500-IAQ3 sensor



IOT-S500-IAQ3 is a 3-in-1 ambience monitoring sensor including the measurement of temperature, humidity and CO₂ concentration and can display indoor status visually on the E-inkscreen in real-time and transmit to network server using LoRaWAN® technology.

- Monitor temperature, humidity and CO₂ levels
- Indicate CO₂ levels via traffic light or emoticon on the E-inkscreen
- Suitable for office or school indoor air quality monitoring

IOT-S500-IAQ7



IOT-S500-IAQ7 is a 7-in-1 ambience monitoring sensor including the measurement of temperature, humidity, CO₂ concentration, TVOC, pressure, light, motion, etc. It can show visually with differ modes on the E-inkscreen in real-time and transmit to network server using LoRaWAN® technology.

- Monitor main pollutants in indoor environment
- Indicate polluted levels via traffic light or emoticon on the screen
- Suitable for office or school indoor ambience monitoring

IOT-S500-IAQ11



IOT-S500-IAQ11 is a 9-in-1 ambience monitoring sensor including the measurement of temperature, humidity, CO₂ concentration, TVOC, pressure, light, motion, PM2.5&PM10, HCHO/O₃, etc. It can show visually with differ modes on the E-inkscreen in real-time and transmit to network server using LoRaWAN® technology.

- Monitor main pollutants in indoor environment
- Indicate polluted levels via traffic light or emoticon on the screen
- Suitable for office or school indoor ambience monitoring

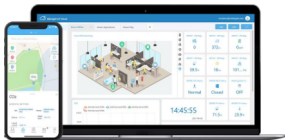
IOT-G63 Mini LoRaWAN® Gateway



IOT-G63 Mini LoRaWAN® Gateway provides stable connectivity between sensors and mainstream network servers or IoT cloud.

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

Linovision IoT Cloud



Linovision IoT Cloud provides unparalleled levels of vertical integration with Linovision 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

Specification

IAQ Sensor

Model	IOT-S500-IAQ11	IOT-S500-IAQ7	IOT-S500-IAQ3	IOT-S500-IAQ3L
Hardware Interfaces				
Screen	4.2 Inch E-ink		2.13 Inch E-Ink	-
LED	1 ×Traffic Light Status Indicator			
Buzzer	Support		-	-
Configuration	NFC or USB Type-CPort	NFC or USB Type-CPort	NFC	NFC
Sensors				
Temperature	✓	✓	✓	✓
Humidity	✓	✓	✓	✓
CO ₂	✓	✓	✓	✓
PIR	✓	✓	-	-
Light	✓	✓	-	-
TVOC	✓	✓	-	-
Barometric Pressure	✓	✓	-	-
PM 2.5 & PM 10	✓	-	-	-
HCHO/O ₃	Alternative	-	-	-

Physical Characteristics				
Power Supply	5V/1A by Type-CPort	4 ×2700 mAh ER14505 Li-SOCl ₂ Batteries or Type-CPort	2 ×2700 mAh ER14505 Li-SOCl ₂ Batteries	2 ×2700 mAh ER14505 Li-SOCl ₂ Batteries
Battery Life	-	Up to 3 Years	Up to 3 Years	Up to 4 Years
Dimension	100.8 ×114 ×22 mm		68 ×65 ×20.5 mm	
Operating Temperature	-20to +60°C (E-Ink Screen: 0 to +40°C)			
Ingress Protection	IP30			
Installation	Wall Mounting			

Specification

IOT-G63 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 ×10/100/1000Mbps (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-CPort
Operating Temperature	-20°C to +50°C
Ingress Protection	IP30
Dimension	Φ 115 ×21 mm
Installation	Desktop, Wall or Ceiling Mounting

Specification

Linovision 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			✓	