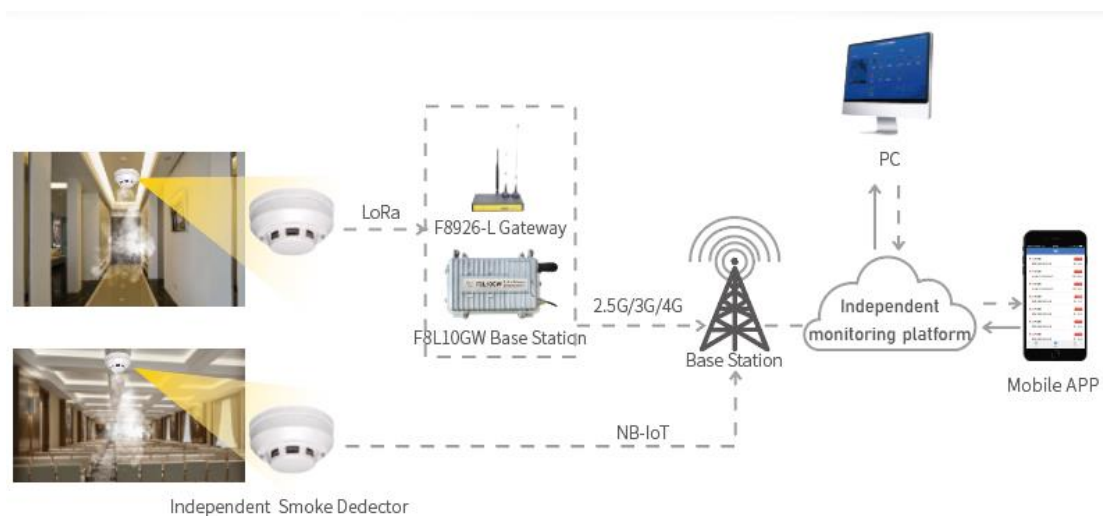# Wireless Smoke Detector System

——IOT•SMART•SECURITY

OVERVIEW

The Four-faith wireless smoke detector platform consists of wireless smoke alarm and monitor system. It can solve the disadvantages of the traditional device which cannot be connected to network and wiring trouble. And it contains many features, such as independent installation and wireless deployment, independent power supply, wireless network communication, working stability, no need debug, etc. Now it has been widely used for many fields to fire safety monitoring and automatic alarm, such as hotels, shops, houses, internet bars, KTV, coffee houses, etc.

TOPOLOGY

- ✧ **Sensing Unit:** Real-time environmental monitoring. When detected smoke, it will report alarm message.
- ✧ **Collection Unit:** Real-time get the sensing unit status.
- ✧ **Communication Unit:** Provide the message transmission channels.
- ✧ **Platform:** Module design, easy deployment, easy operation, real-time data viewing, warning management, data analysis, device positioning, mobile application and other functions.

FUNCTIONS

✓ **Real-time monitoring**：24 hours monitoring environmental fire potential.

✓ **Alarm warning:** When the system receives failure information, it will alert to the responsible person in many ways.

✓ **Data analyzing:** You can discover the fire potential in time through the platform big data analysis technology, in order to ensure the safety of building space.

✓ **History record:** All warning messages are written into platform log, and the platform users can consult it.

✓ **Authority management:** The platform can assign different authorities to different operators according to users' actual business process and management requirements, thus improving the overall security of the platform.

✓ **Mobile APP:** Through the mobile APP, the relevant authorized personal who can know the monitoring situation of each region, floor and room at anytime and anywhere, master the building safety status, receive alarm information, conduct remote warning and early warning processing.

APPLICATION

✧ **School, Hospital and Commercial district**

Through the big data analysis of the monitoring data by smoke detector, fire security hidden danger found in time, ensure the safety of the building.

✧ **Home, Club, Hotel and Restaurant**

As a security device of the smart home for the mass-market, consumers can buy and install it by themselves.

✧ **Beadhouse, Welfare agency and Museum**

As a smart fire protection system, it provides one-stop solution for buildings that are difficult to be rebuilt.

✧ **Ancient architecture and other need protect building**

Ancient architecture is a precious resource left over from history and should not be lost.

ADVANTAGE

✓ **Low-cost:** NB-IoT/ LoRa mode, use the IOT AD hoc network and operator network, exempt base station construction, reduce system cost.

✓ **Easy-installation**：Wireless communication, built-in battery, no wiring required, reduce construction time, reduce construction cost.

✓ **Easy maintenance:** The smoke detector has low power consumption, and can keep working more than 2 years; real-time monitoring, with anti-disassembly, low electric quantity, fault and over-temperature alarm.

✓ **Security:** The national fire mandatory product certification, with standard, safe and reliable.

✓ **Convenience:** The internet operation and management mode, users can monitor the fire anytime and anywhere through mobile APP.

PRODUCT

■ **LoRa Gateway/Base station**

✓ Support 2.5G/3G/4G network.

✓ Simultaneous transmission of multiple data centers.

✓ Improved receive sensitivity.

✓ Rich interface, convenience for users used.

✓ Easy build and deploy.

■ **LoRa Module**

✓ Long transmission distance; transmission reliable.

✓ Strong anti-interference ability.

✓ New spread spectrum technology.

✓ Improved receive sensitivity.

✓ Demodulation under 20dB noise.

✓ Easy build and deploy.

✓ Low power consumption, multistage dormancy.

✓ The transmitting power is multistage adjustable.

■ **NB Module**

✓ Deep coverage: more than 20db coverage gain compare with GSM.

✓ Low-cost.

✓ Huge connection: each block can reach up to 100,000 connections.