

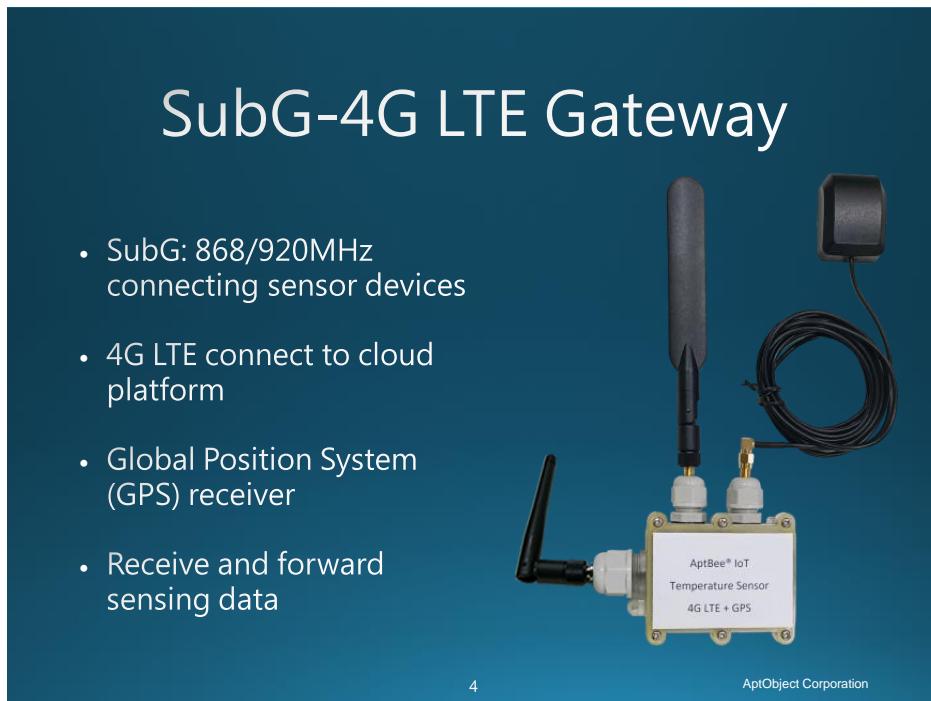
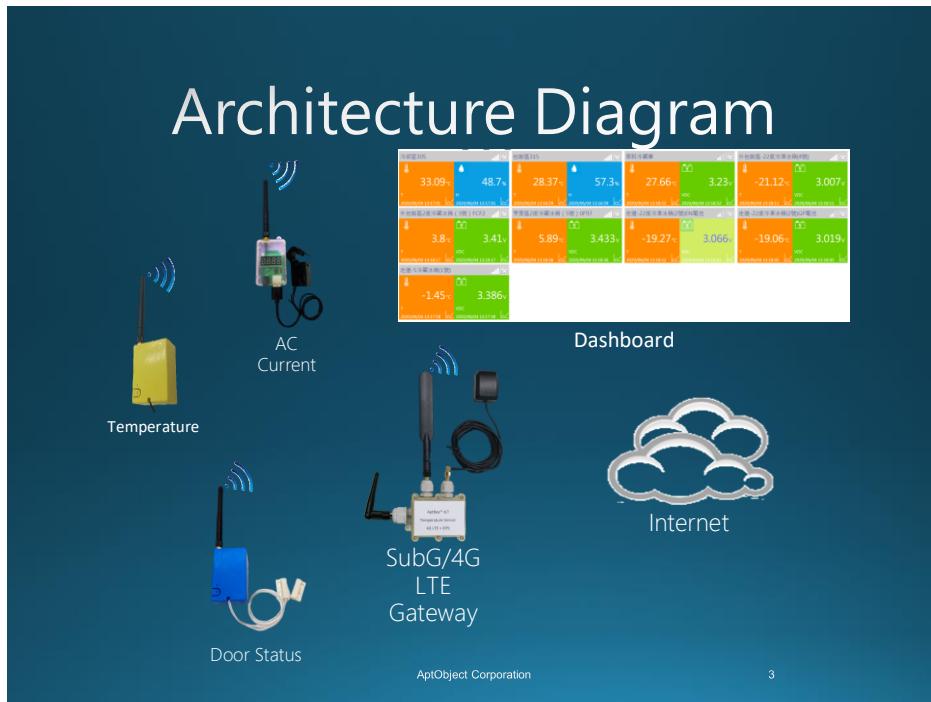
Cold Chain Monitoring and Tracking

AptBee IoT Solution



Solution

- Continuously record temperature and door status during storage and transportation
- Visualize data anytime, anywhere
- Custom alarm conditions and notification messages
- Historical data can be queried and exported
- Use wireless communication to avoid destructive construction deployment
- Use 4G LTE communication and GPS to react instantly



Wireless Temperature Sensor Device

- SubG: 868/920MHz connect with gateway
- NTC sensor: -40°C~85°C
- 2*AA batteries powered, at -20°C, last more than 18 months if transmitted every minute



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Wireless Door Status Sensor Device

- SubG: 868/920MHz connect with gateway
- Reed switch sensor
- 2*AA batteries powered, at -20°C, last more than 24 months if transmitted every minute



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Wireless AC Current Sensor Device

- SubG: 868/920MHz connect with gateway
- Current Transformer (CT): 0-80A
- Transmit current value per second
- Fixed power supply



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2.4GHz Temperature and Humidity Data Logger

- 2.4GHz Bluetooth Low Energy (BLE)
- Records 130,000 temperature and humidity values
- Export historical records via mobile App
- 2*AAA batteries powered, more than 36 months



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Hardware Features

- 868/920Mhz, 4G LTE and GPS
- Connect multiple wireless sensor devices simultaneously
- Using high-precision sensors
- Automatically send sensor data to cloud system
- Suitable for cold chain environment
- IP68 housing

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Software Features

- Real-time data visualization
- web-based dashboard and map display
- android and iOS mobile applications(App)
- Unlimited alarm conditions
- Alert messages via web, email or App
- Historical data can be queried and exported
- APIs are available for system integration

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Real-time data visualization

The screenshot shows a real-time data visualization interface for AptBee. At the top, there's a header with the service name and a user log-in status. Below it is a search bar with the identifier '8611080'. The main area features a graph titled '00124B0017B00FC6_溫度' (Temperature) with a Y-axis from 26.00°C to 32.00°C. The X-axis shows dates from 2020/07/10 to 2020/07/11. A blue line represents the temperature data, which starts around 28.00°C, drops to a minimum of about 27.5°C on July 11th, and then rises sharply to approximately 31.5°C by the end of the period. There are also some minor fluctuations between 28.00°C and 29.00°C earlier in the day. The interface includes various controls like date/time selection, unit conversion, and data export options.

AptBee® 物聯網雲端服務

8611080

00124B0017B00FC6_溫度

2020/07/10 02:34

時間單位: 時間實行 - 時間範圍: 12hr 資料單位: 鏡氏度 (°C)

查詢 退出 Save PNG Add Series

28.00°C 30.00°C 32.00°C

2020/07/10 11:00:00 2020/07/10 14:00:00 2020/07/10 17:00:00 2020/07/10 20:00:00 2020/07/10 23:00:00 2020/07/11 00:00:00 2020/07/11 03:00:00 2020/07/11 06:00:00

Source Offset

最高溫 = 31.44°C 平均溫 = 29.98°C 最低溫 = 26.87°C
資料時間 = 2020/07/09 14:35:00 - 2020/07/10 02:34:59 實時測量 = 21.42°C
Device MAC address: 00124B0017B00FC6

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web-based dashboard and map display

The screenshot shows a web-based dashboard and map display for AptBee. The top part is a map of a city area with several green dashed lines forming a polygon. Inside this polygon, there are several location markers (blue dots with arrows) and a red dot with a pin. The bottom part is a detailed data card for a specific sensor. The card has a blue header with the identifier '861108037983821 3/4' and the device ID '00124B0017B00FC6'. It displays two data points: '溫度' (Temperature) at 52.27°C and '電壓' (Voltage) at 2.515V. Below the card are two small graphs showing data trends over time. The footer of the card includes the timestamp '2020/07/10 14:34:08' and '2020/07/10 14:34:08' again. The overall interface is clean and modern, designed for easy monitoring of multiple sensors across a geographic area.

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00124B0017B00FC6

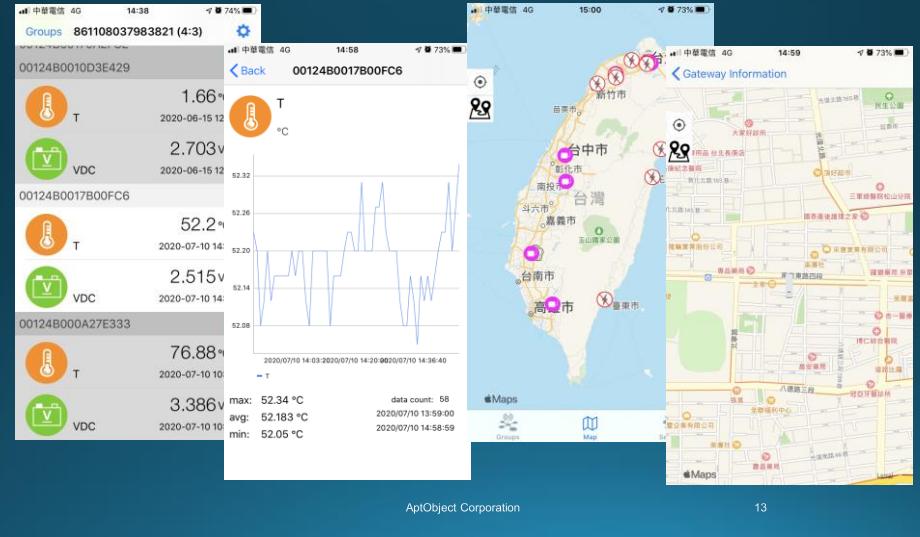
52.27°C 2.515V

溫度 電壓

2020/07/10 14:34:08 2020/07/10 14:34:08

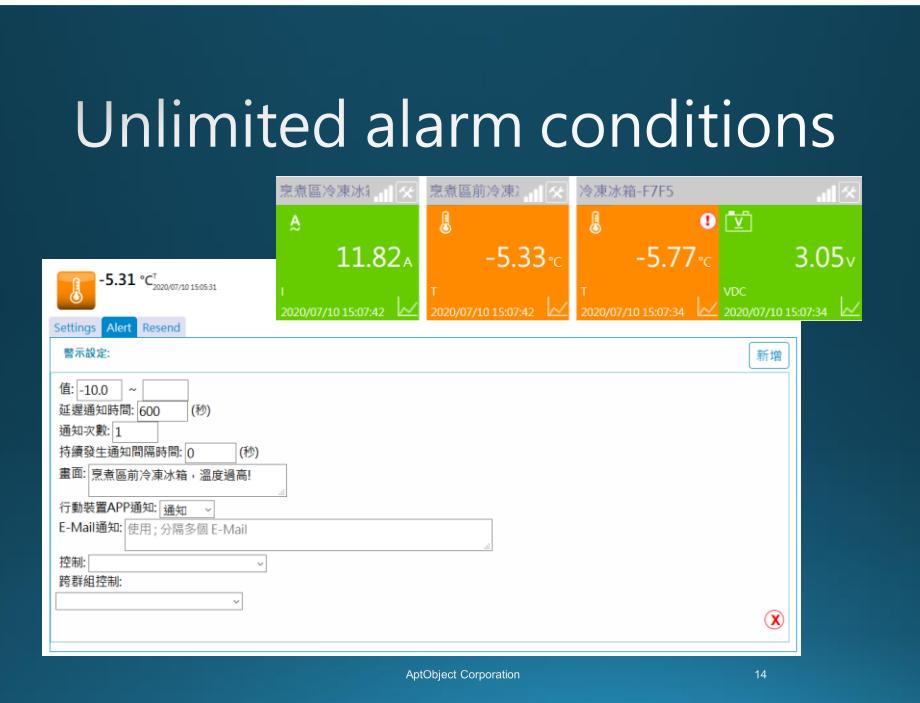
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android and iOS App



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Unlimited alarm conditions



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