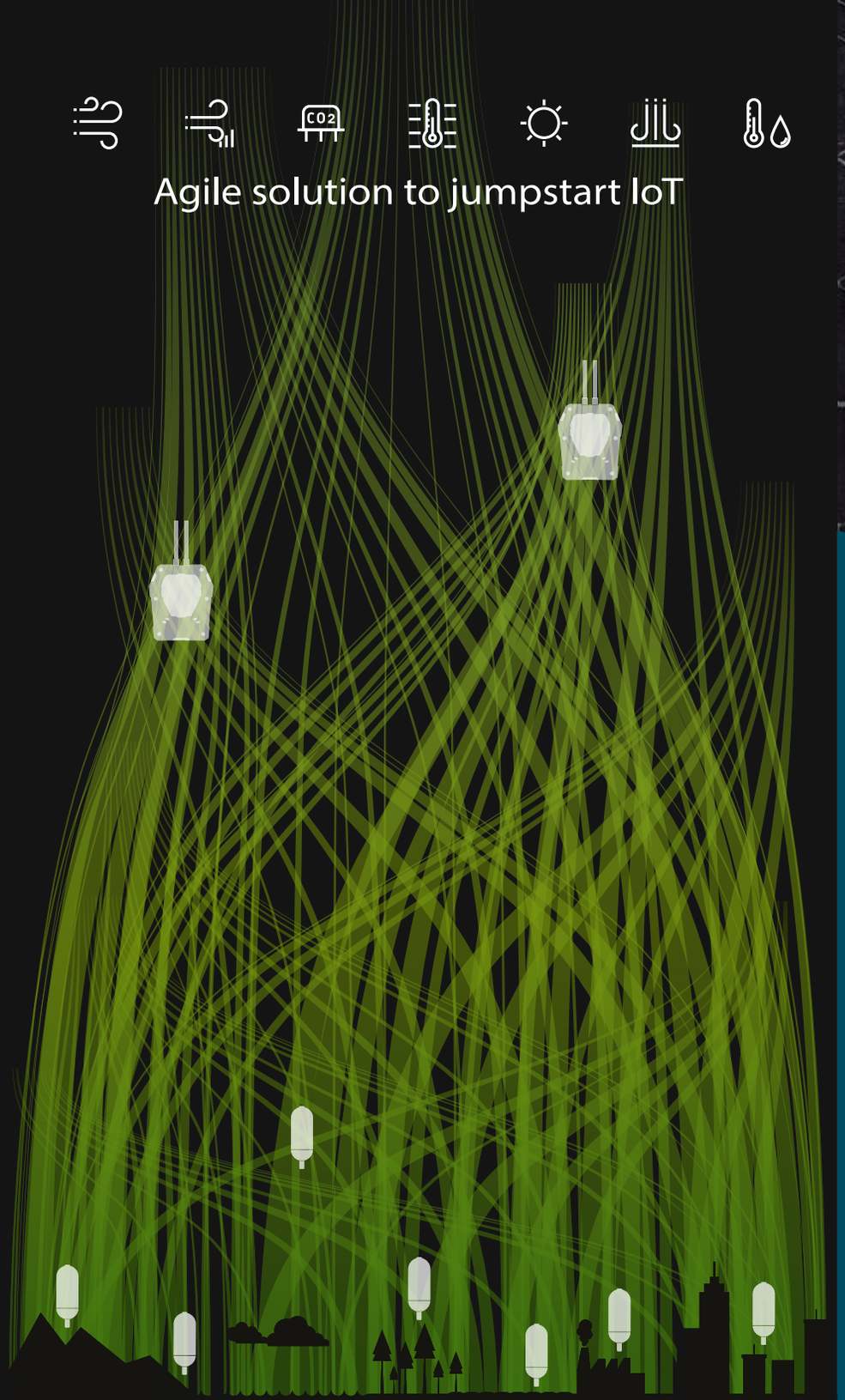
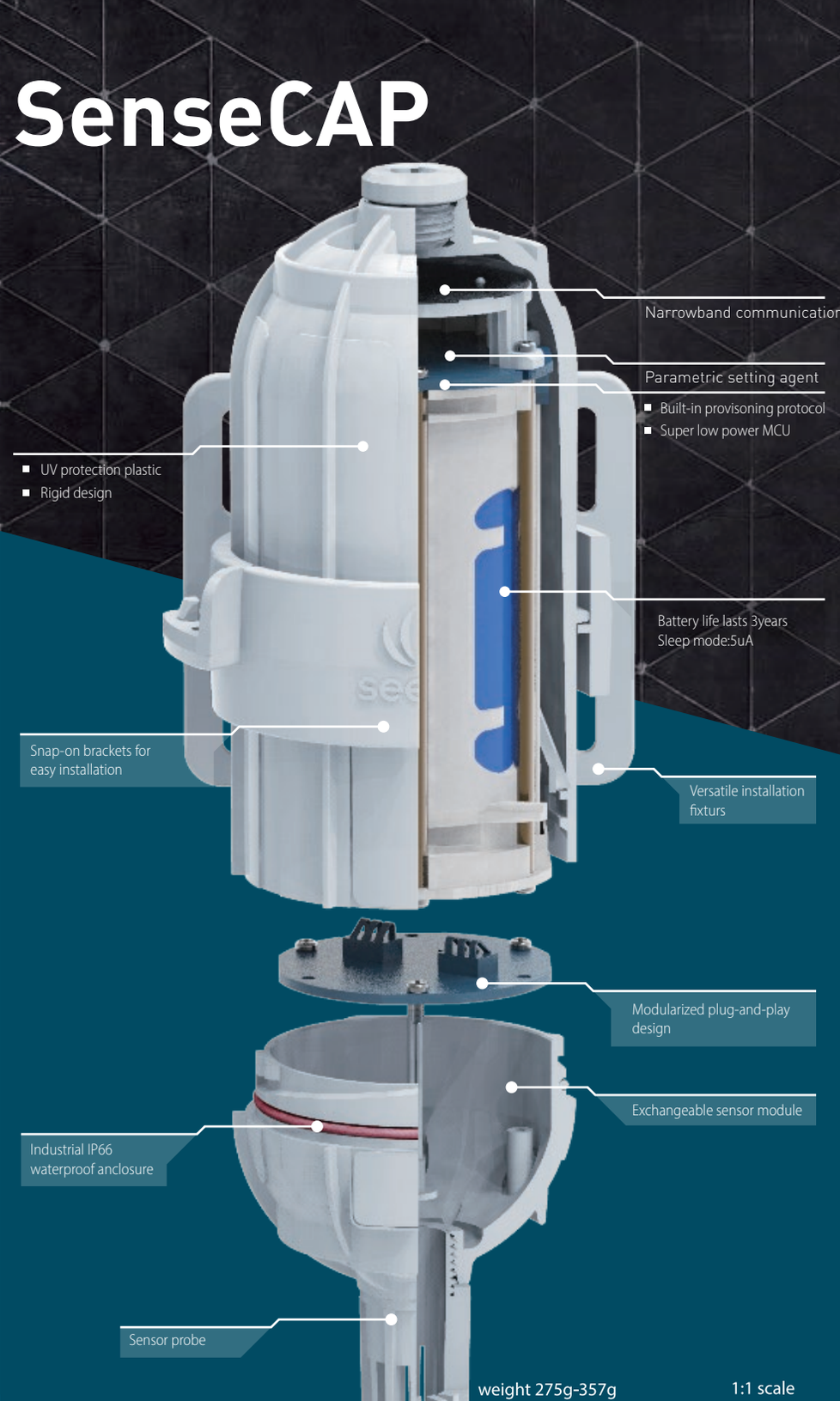
# SenseCAP

## Agile solution to jumpstart IoT



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The IoT Hardware Enabler

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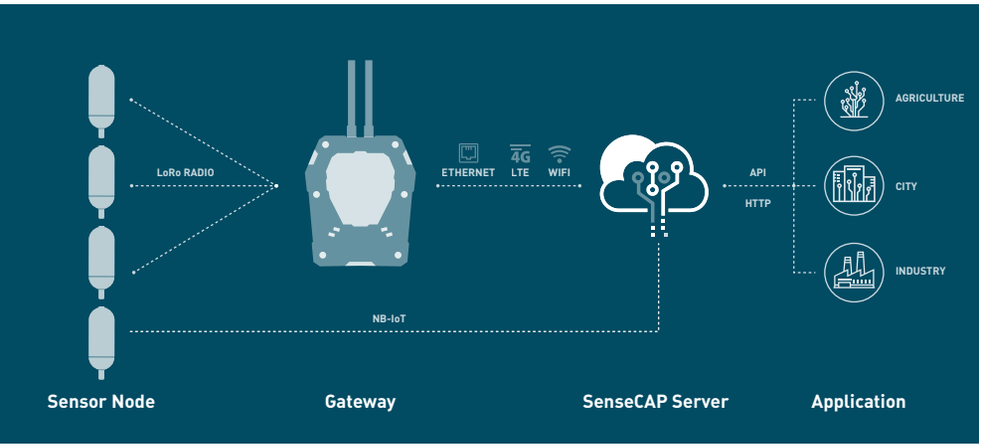
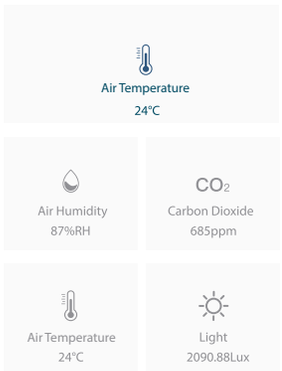
Our mission is to be the most integrated platform for global creative technologists to turn ideas into products, by providing open technology and agile manufacturing from Shenzhen, the hardware capital of the world.

# System Architecture




# Integrated Provisioning

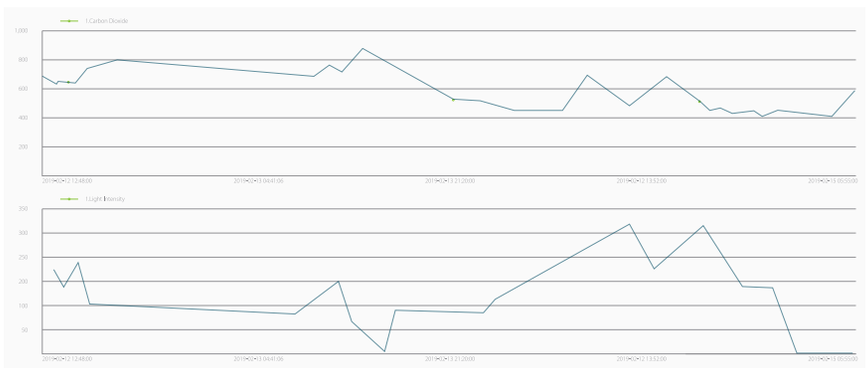
**Dashboard**




**DataTable**

| NO | Device Name | Measurement | Data Value | Data Update Time |
|---|---|---|---|---|
| 1 | Light | light | 2382.1Lux | 2019-02-15 10:01:09 |
| 2 | CO2 | carbon dioxide | 685ppm | 2019-02-15 10:00:57 |
| 3 | Temp-Humi | humidity | 65% | 2019-02-15 09:59:46 |
| 4 | Temp-Humi | temperature | 24°C | 2019-02-15 09:59:46 |
| 5 | Light | light | 2288.8Lux | 2019-02-15 09:55:23 |
| 6 | CO2 | carbon dioxide | 683ppm | 2019-02-15 09:54:23 |
| 7 | Temp-Humi | humidity | 65% | 2019-02-15 09:54:46 |
| 8 | Temp-Humi | temperature | 24°C | 2019-02-15 09:54:46 |
| 9 | Light | light | 2380.1Lux | 2019-02-15 09:51:12 |

**Chart**

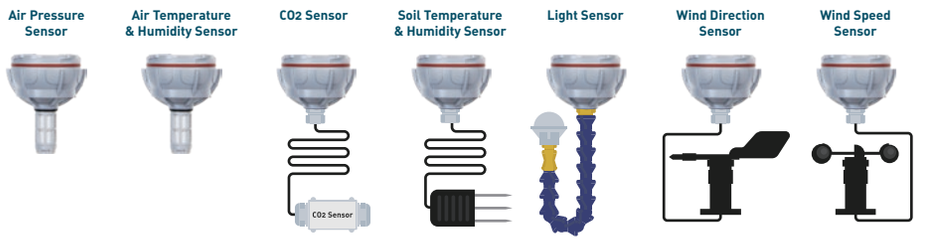


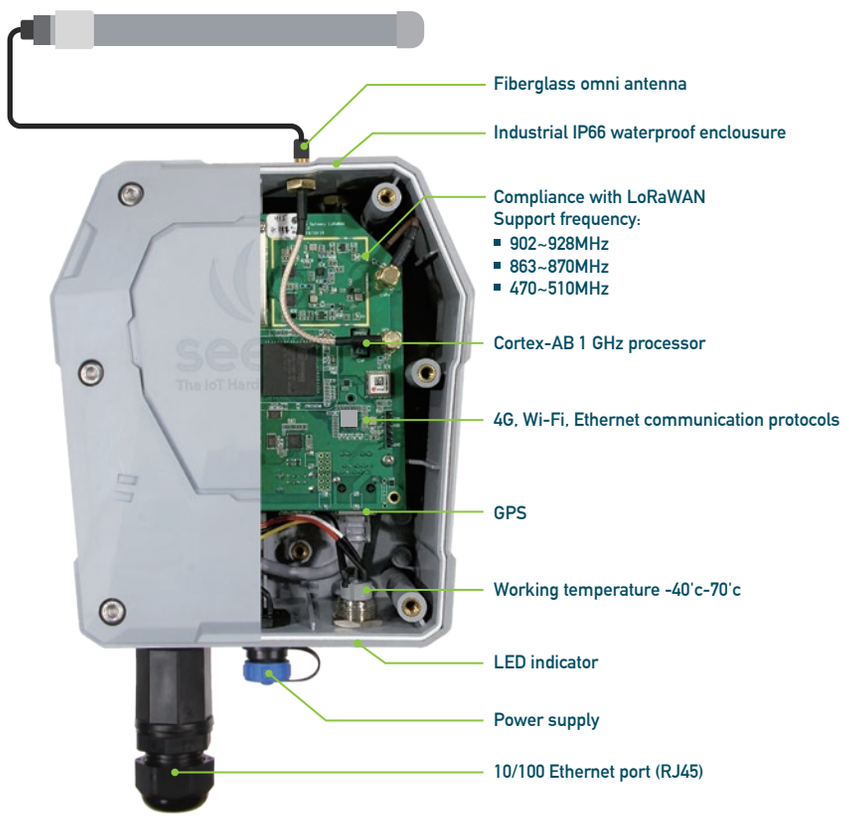
**API services**

- Based on Microsoft Azure and The Things Network LoRaWAN services
- Provide API to get device status and sensor data
- Support WebSocket and MQTT protocol
- Support historical data exporting

# Sensor Capsule Specifications

| SENSORS | SPECIFICATIONS | MEASUREMENT ACCURACY(TPY) |
|---|---|---|
| SenseCAP Air Temp&Humi Sensor | -40~90°C O~ 100%RH | ±0.30 ±2%RH |
| SenseCAP SoilTemp&Humi Sensor | -30~70°[0~100%RH | ±0.2°c ±2%RH(0%~50%) |
| SenseCAP Air Pressure Sensor | 300~ 11 OOhPa | ±1hPa (950hPa~ 1 OSOhPa) (O'C~40'C) |
| SenseCAP CO2 Sensor | 400~ 1 OOOOppm | ±30ppm+3% |
| SenseCAP Light Sensor | Max 188000Lux | 0.045Lux/LSB |
| SenseCAP Wind Speed Sensor | 0~60m/s | 0.125m/s |
| SenseCAP Wind Direction Sensor | 8 Directions | 45° |
| More sensors will be coming soon | | |




# Gateway Ready for Edge