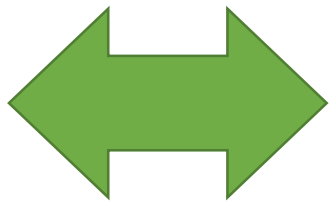**AIS 4G Board**

Simplify Development of IoT Solutions with the best 4G coverage
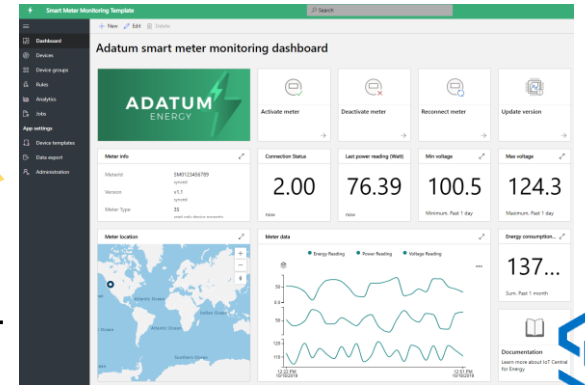
# AIS 4G Board

AIS 4G Board is the development kit for rapid prototyping of highly secure, and compatible with Microsoft's Azure IoT PaaS and SaaS. The board includes eSIM for 4G connectivity and integrated sensors.
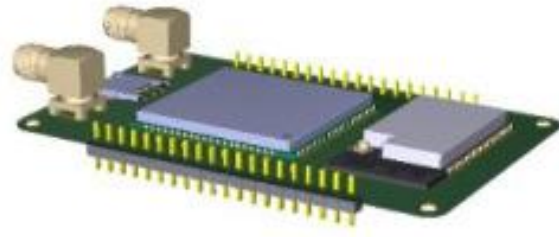
3G/4G, Wi-Fi

MQTT HTTP

Azure IoT Central

UART
I2C
GPIO
RS485

ARDUINO

GitHub

AIS
*4G Board*

GitHub

https://github.com/gravitech-engineer/AIS_IoT_4G

# Benefits for Business



Rapid Prototype
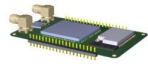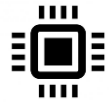


Nationwide Signal Availability



MS Certified Device

AIS
*4G Board*

# Key Features



## Design

- Dimension (mm): 58 x 107 x 19.5 mm
- Weight (g):        42 g

## Micro Controller

- Brand: Espressif
- Model: ESP32-WROOM-32

## Connectivity

- Cellular:        3G/4G (LTE CAT4)
- SIM Card:        eSIM
- Wi-Fi:        Yes (802.11 b/g/n)
- Bluetooth:        Yes (Version 4.2)

## Sensors

- GPS:        Yes
- Temperature:        Yes
- Humidity:        Yes

## Addition Include

- Micro SD card slot
- eSIM on Board
- GPS and 3G/4G Antena
- RS485

AIS
*4G Board*

# Differentiation

- ✓ Compact MCU with 4G module in single board – reduce wiring complexity

- ✓ Special price for 4G package – only 500 THB/year

- ✓ e-SIM on board - reduce sim contact problem

- ✓ Azure Certified Device – Easy to integrate with Azure platform (IoT Hub & IoT Central)

- ✓ Addition – GPS & Micro SD card slot are included

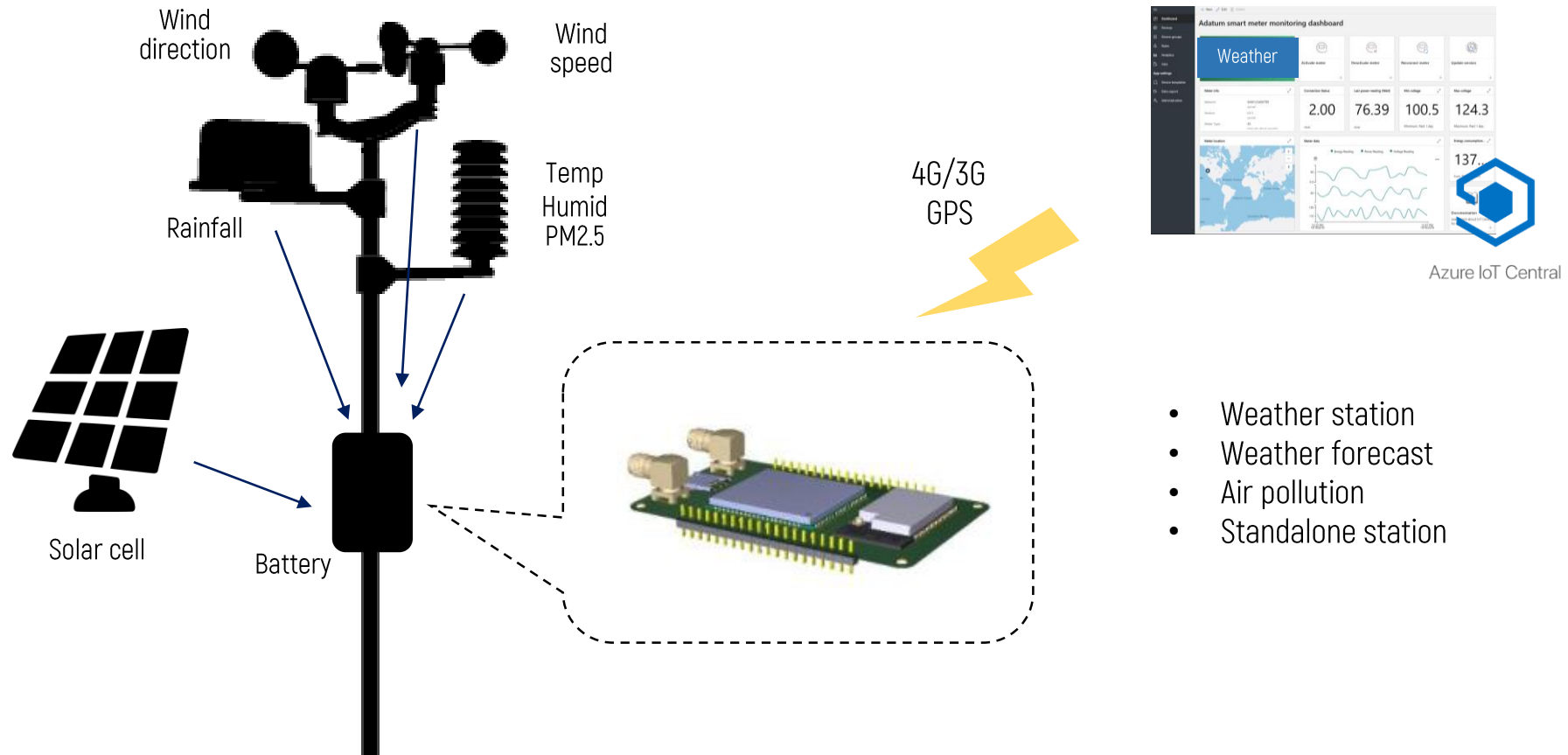- ✓ GitHub example code is provided - https://github.com/gravitech-engineer/AIS_IoT_4G
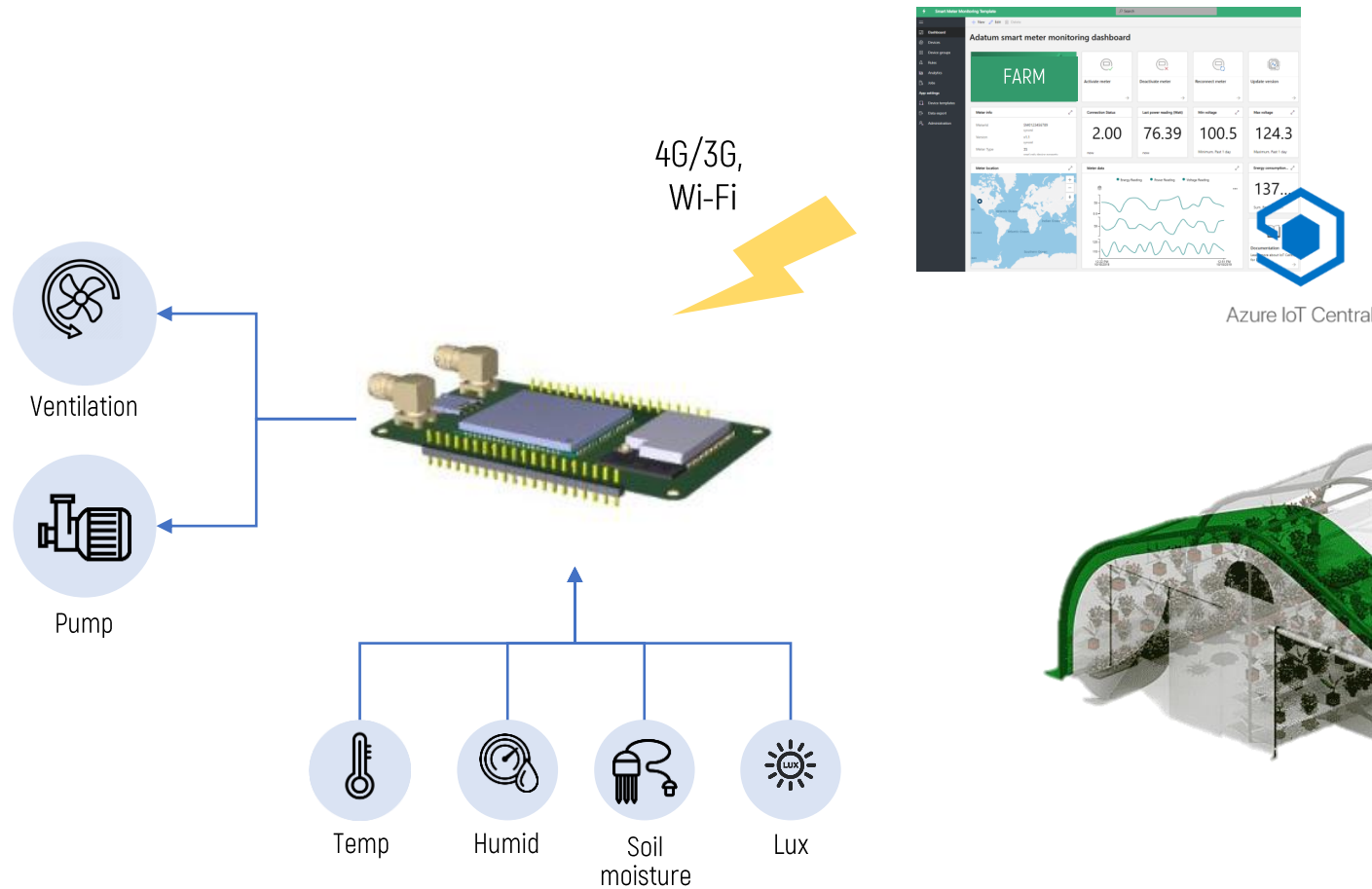
AIS
*4G Board*

# Example use case - Factory



Main factory

Station 1    Station 2    Station 3

4G/3G
GPS

Factory
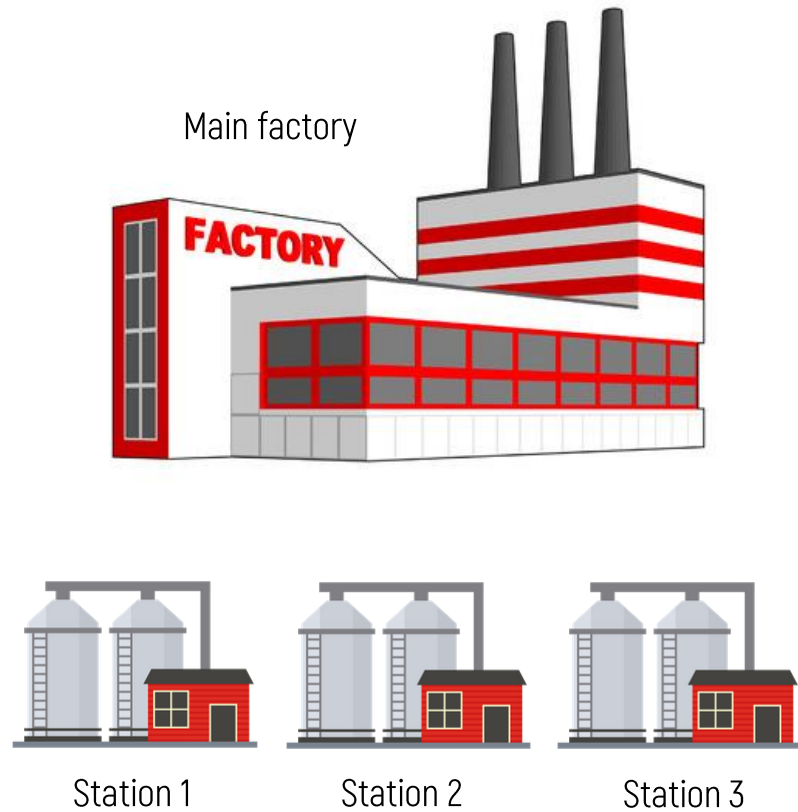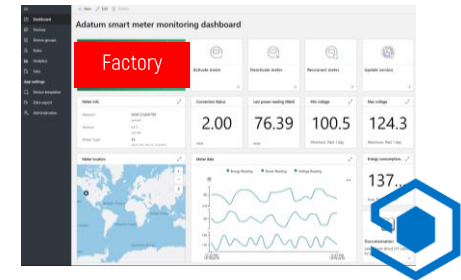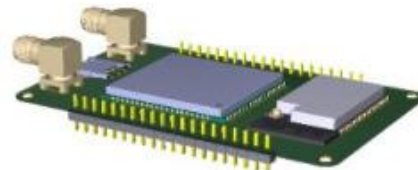
Azure IoT Central

- Remote Monitoring
- Hazardous Detection
- Standalone station
- OEE Monitoring

AIS
*4G Board*

# Example use case - Telemetry Station



Wind direction

Wind speed

Rainfall

Temp
Humid
PM2.5

Solar cell

Battery

4G/3G
GPS

Weather

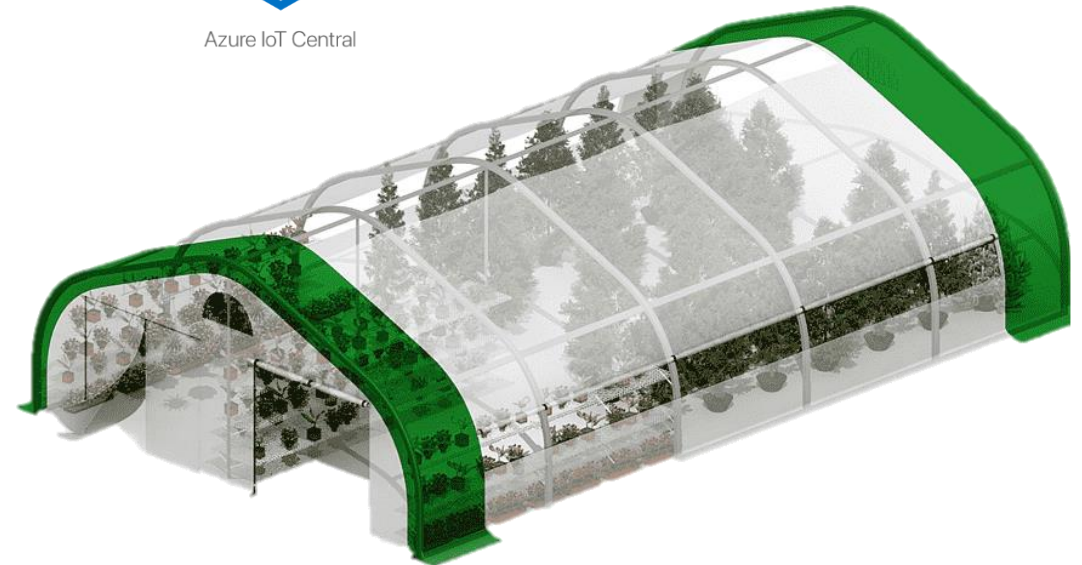2.00   76.39   100.5   124.3

137.

Azure IoT Central

- Weather station
- Weather forecast
- Air pollution
- Standalone station

# Example use case – Smart Farm



- Farm Monitoring
- Farm automatic control
- Save manpower

4G/3G, Wi-Fi

Azure IoT Central

Ventilation

Pump

Temp    Humid    Soil moisture    Lux

AIS
**4G Board**

# Example use case – Smart meter



Digital
Power Meter

Digital
Water Meter

RS485

Digital
Gas Meter

4G/3G

Meter

2.00   76.39   100.5   124.3

137.
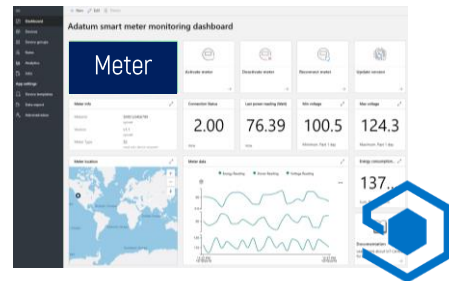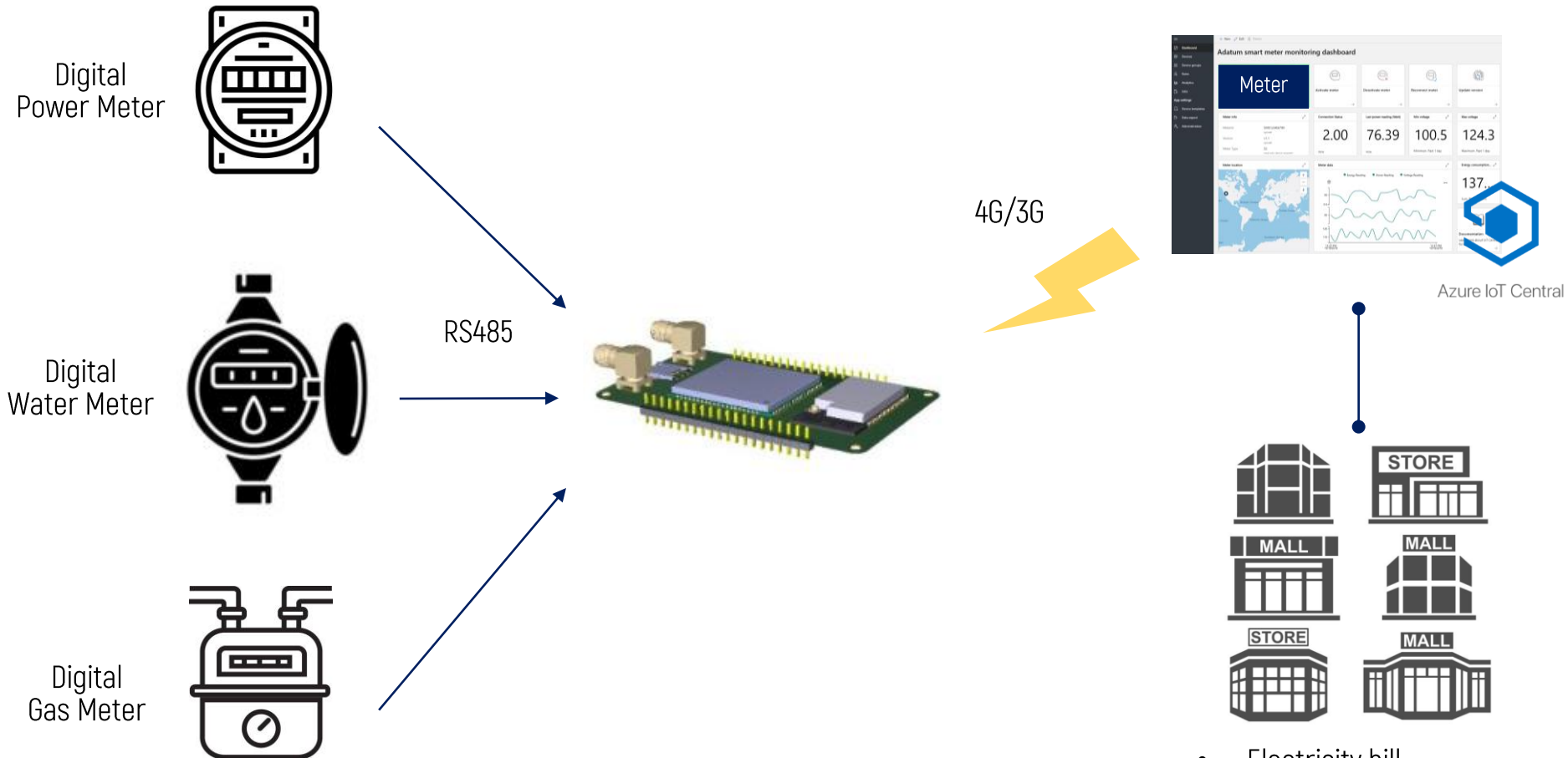
Azure IoT Central

- Electricity bill
- Analyze energy consumption
- Preventive maintenance
- Save manpower
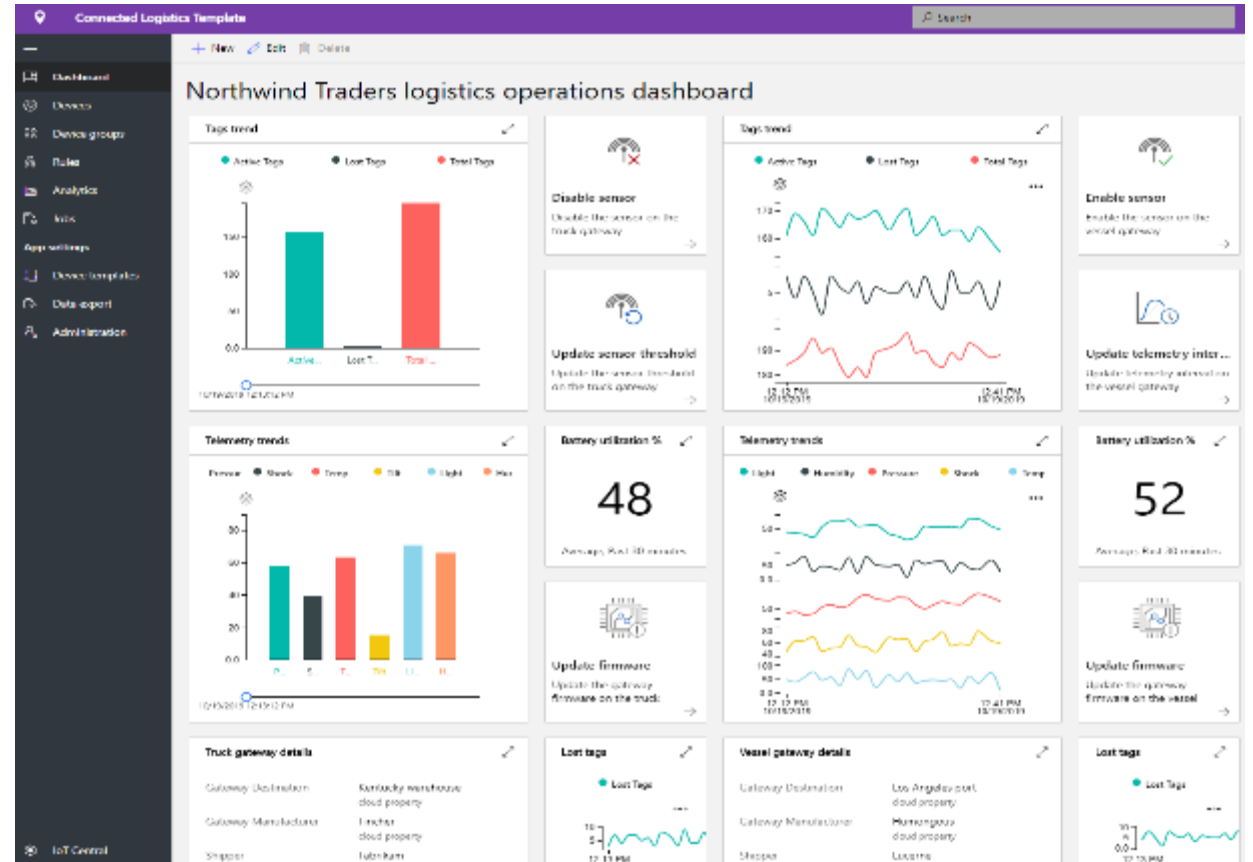- Reduce energy consumption

AIS
*4G Board*

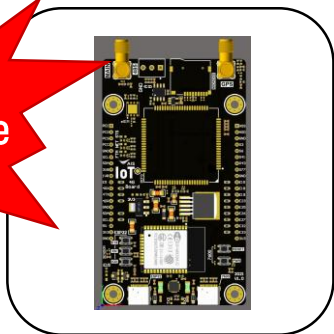# AIS 4G Board + Azure IoT Central (SaaS)
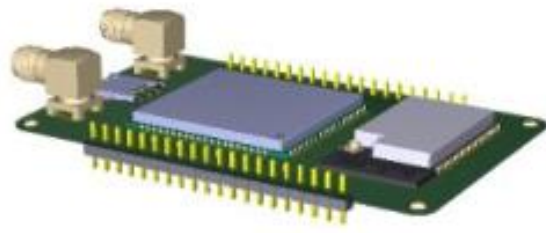


telemetry

command

- Device Management
- Dashboard & Visualization
- Monitoring rules & Triggered actions
- User role & permissions

- White Label
- Public APIs

Azure
*IoT Platform*

# Device (AIS 4G Board)
## (Onetime)

**Special Free Airtime Package 1 Year**
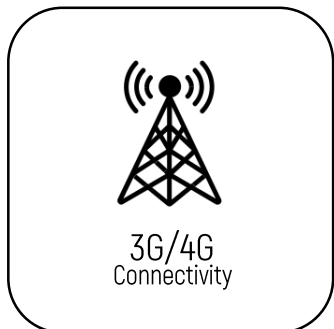
| Item | Price |
|------|-------|
| Device  *( + 1 Year Airtime Package )* | 3,600 |

*รับประกัน 1 ปี เปลี่ยนสินค้าได้ภายใน 7 วัน ตามเงื่อนไขที่กำหนด*

**+**

# Airtime Package
## (Recurring – Yearly)

3G/4G
Connectivity

| Airtime | Package |
|---------|---------|
| 500 THB | Unlimited  384 kbps |

AIS
*4G Board*