QNAP

QIoT Suite Lite

IoT platforms can provide a business boost even in tough markets

2 Data collecting & processing

3 Generating report & take action

1 Data transmission
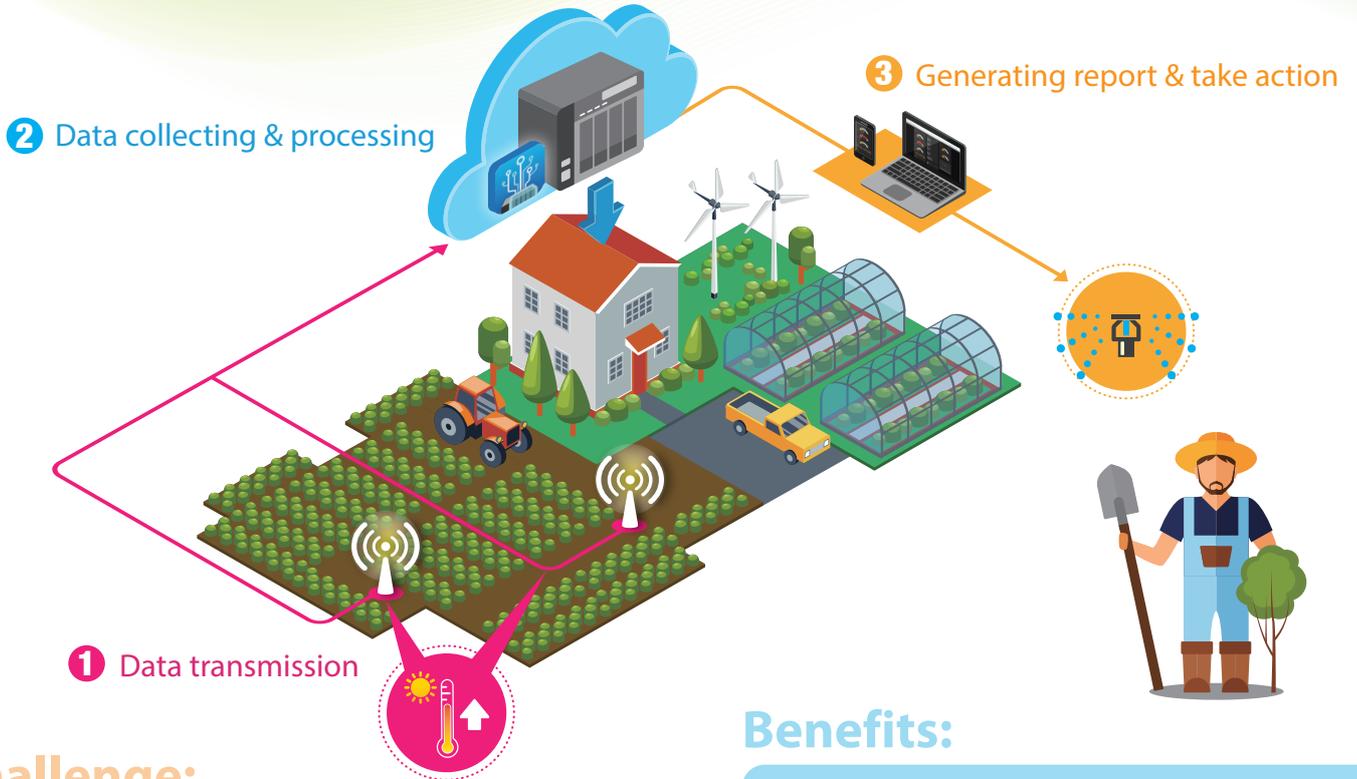
Challenge:

How can farmers manage and organize their data into actionable information?

Farmers can benefit from the data gathered by sensors to help manage their land, crops, and animals more efficiently. To have full understanding of the farm's status and to help farmers determine peak harvest times, QIoT collects sensor data and visualizes the data to show soil liquefaction and nutrient levels.

By implementing QIoT Suite Lite, farmers can save time and reduce the manpower needed to check conditions. They can also react to changes in real-time by receiving alerts on their computers and mobile devices.

Benefits:

Farmers leverage QNAP's QIoT Suite Lite to maximize their knowledge of farm conditions. This allows them to optimize farm management and resource usage.

- ★ **Supports multiple protocols**
- ★ **Edge computing: Take action in real time**
- ★ **Data is processed and stored on-site**
- ★ **Supports mobile devices**
- ★ **Visualize data using dashboards**
- ★ **Self-defined rules**

Location A

Location B

Location C

Devices
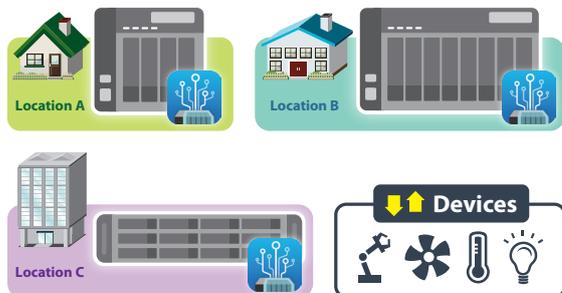
❗ Visualize and analyze everything in one place

Edge Computing

Due to public cloud limitations, performing edge computing may be the most efficient method to perform actions/process data.

With QIoT Suite Lite, a QNAP NAS can act as Fog nodes or Edge devices that can collect all telemetry data from local devices/sensors and transmit selective data back to the main QIoT server.

Node-RED
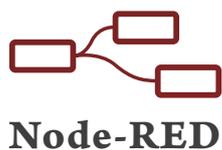
Rules Engine
- Drag & drop operation
- Self-defined rules
- Event processing engine

Dashboard
- Monitor various sensor readings
- Improve your understanding of variable farm conditions

Bridging The Gap

- Supports MQTT, MQTTs, CoAP, HTTP, HTTPs
- Easily set up rules with Node-RED
- IoT visualization
- Supports multiple development boards
- Easy integration multiple APIs
- Secure connection with X509 certification
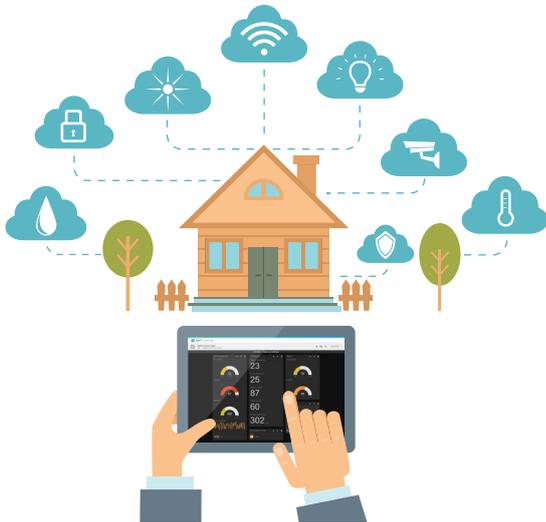
Smart Home with QIoT

Smart homes can improve many aspects of day-to-day life, including intelligent entrance controls, light switches, temperature and humidity adjustments, security, and more. IoT connects a network of appliances, sensors and entertainment devices, allowing homeowners to easily create an interconnected smart home.

QIoT in Education

With QIoT Suite Lite, students can rapidly develop IoT in just three steps. Additional practical modules are also provided for students to accelerate development and services.

Wide-area QIoT Implementation

By supporting LoRa technology, QIoT can manage devices and sensors across a wider range. By collecting data generated by sensors through a LoRa gateway, QIoT can process data on-site and provide actionable information for clients to optimize operations and resource usage. Suitable applications include smart buildings, parking, and agriculture.

Recommend Models

TS-253B
CPU: Intel® Celeron® J3455 quad-core 1.5 GHz, up to 2.3 GHz
Memory: 4GB
Maximum Memory: 8GB

TS-453Bmini
CPU: Intel® Celeron® J3455 quad-core 1.5 GHz, up to 2.3 GHz
Memory: 4GB
Maximum Memory: 8GB

TVS-882
CPU: Intel® Core™ i5-6500 3.2 GHz quad-core processor
Memory: 16GB
Maximum memory: 64 GB (16GB x4)

Min requirement: x86 | 4G memory

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