

What we do?



daviteq

INDUSTRIAL
WIRELESS SENSORS
& IoT SOLUTIONS



We design & manufacture
Smart Wireless IoT Sensors, IoT gateway, IoT solutions
for different vertical **applications**

Figure Facts

> 16 years

Experiences in Process
Instruments & Controls

> 10 years

In developing and manufacturing
Industrial Sensors

< 3 weeks

To develop a new sensor

> 90

Product types have been developed

> 30

IoT solutions have been deployed

> 50,000

Products have been sold

> 20

Solution Partners in Vietnam

> 30

Solution Partners in other countries

> 150

Industrial Customers in Vietnam

Certifications



Certificate for Wireless TEST Sensors



Certificate for Fuel Level Sensors

Certificate for IoT Gateway

Certificate for Daviteq

Daviteq Milestones

- 09-2004: Company Registered (as shown in business license)
- 07-2006: Official operating with trading activities, distributing Process Instruments & Controls products from famous brands Emerson, Yokogawa, Magnetrol, Opto22, Crane, Komoto;
- 2009: The 1st Hardware R&D team was formed to develop Sensors;
- 2010: The 1st product – Fuel Level Sensor PulseCAP10 was introduced to Vietnam market, for Transportation Industry;
- 2012: Started exporting PulseCAP10 fuel level sensors to Oversea markets;
- 2012: The Software R&D team was formed to start develop the Connected Platform (the formerly name of IoT Platform Globiots);
- 2014: The first IoT solutions was installed for customer, a Coffee factory, to monitor the Steam & Boiler water quality;
- 2017: Started developing and manufacturing the Wireless Sensors using Sub-GHz technology from Texas Instruments;
- 2018: Started developing and manufacturing the LoRaWAN Wireless Sensors;
- 2019: Started developing and manufacturing the Sigfox Wireless Sensors;

Daviteq Mission

Our Mission

Develop and manufacture state of the art and high-quality products to improve the efficiency customer's business.

Our Values

- Produce products that are above customer's expectation;
- Our customers success is our target;
- Create an inspiring work environment for every Daviteq employee
- Sustainable development to build better life for everyone;

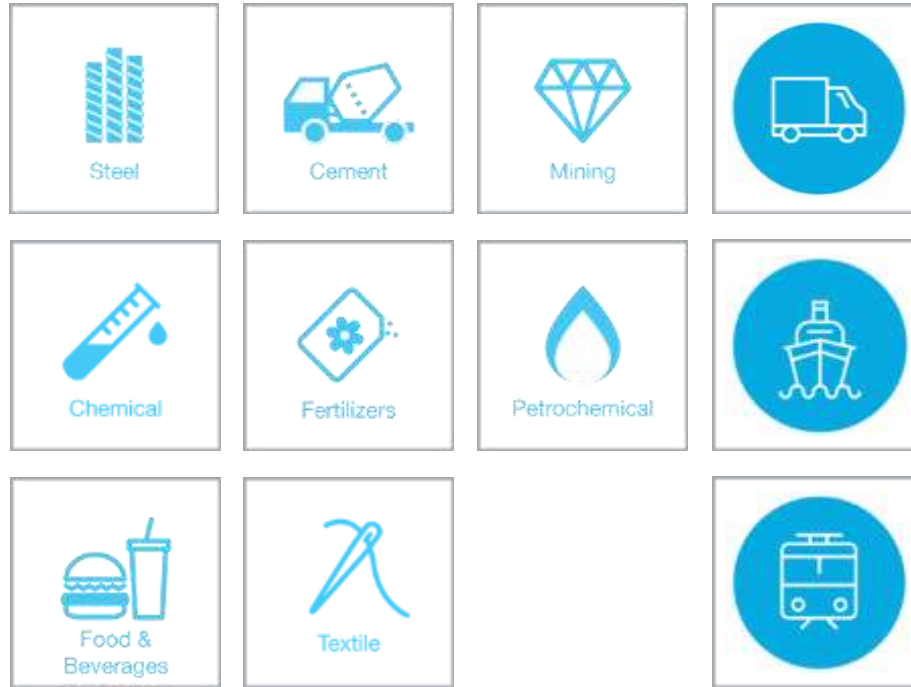
Operation Philosophy

- Planning our development;
- Discipline in actions;
- Creative in solutions
- Flexible in issues;
- Responsible in business;

Why Daviteq?

- 17-year experience in Industrial Measurement and Controls;
- 10-year experience in Developing and Manufacturing instruments, IoT wireless sensors, IoT gateways & IoT solutions;
- In-house product developing capability from Hardware, Firmware, Software (Server back-end, Web, Mobile);
- Product to comply International standard: CE, EMC...
- Core technology: Ultra-low power wireless sensors (single battery can last 10-15 years);
- Core technology: Support various open connectivities: LoRaWAN, Sigfox, Sub-GHz, NB-IoT...
- Core technology: NO-CODE IoT Platform for quick deployment any IoT Solutions;
- Worldwide markets: Vietnam, Singapore, Malaysia, Australia, New Zealand, India, South African, Europe... |

Serving different kinds of Industry



Our activities



Daviteq at ISA Vietnam 2019



Daviteq at IoT Asia 2019, Singapore



Daviteq at GSMA 360 2019, Kuala Lumpur



Daviteq at Exhibitions in Nurnberg, Germany 2015



Daviteq at Asia IoT Business Platform 2019, Vietnam



Daviteq at Asia IoT Business Platform 2019, Myanmar

Daviteq Strategic Products




Sub-1GHz

433Mhz, 868Mhz, 915Mhz, 920Mhz

 sigfox

RCZ1, RCZ2, RCZ3, RCZ4, RCZ5,
RCZ6, RCZ7

 LoRaWAN

860-870 Mhz, 900-930Mhz

 NB-IoT

B1/B2/B3/B4/B5/B8/B12/B13/B17/
B18/B19/B20/B25/B26/B28/B66

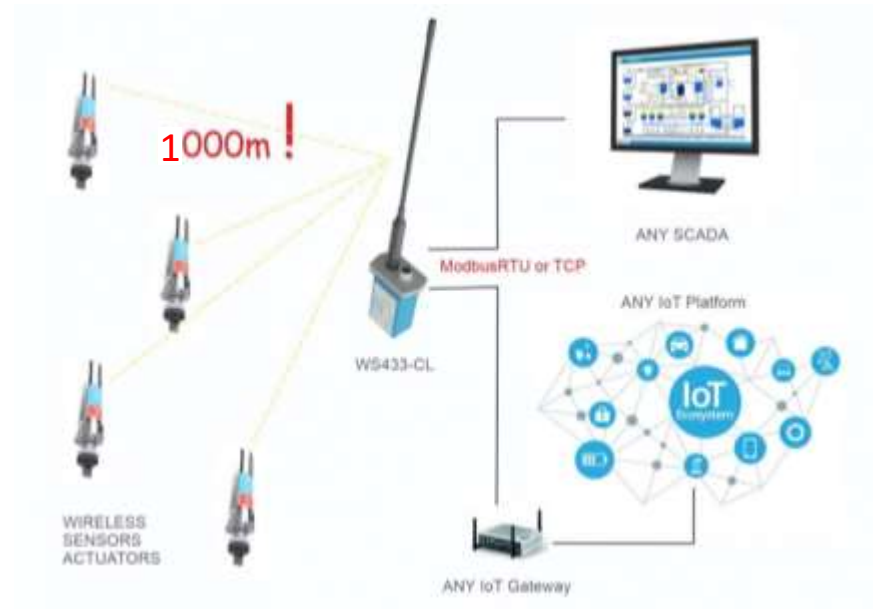
Daviteq Wireless Sub-GHz Sensors & Actuators

Daviteq Sub-GHz Wireless Sensors

- ✓ Long Distance communication
1000m LOS or go through 4 floors
- ✓ Up to 15-year Battery life
by popular battery Alkaline or Lithium
- ✓ 2-way communication
For strong functions, Configuration on Air
- ✓ CE/RED Certified
EMC, Safety and IP67 test reports by SGS
- ✓ Many kinds of Sensors and I/O
Temperature, humidity, pressure, level, analog, digital,
ambient light, vibration, gas sensor, liquid sensor...


Sub-1GHz

433Mhz, 868Mhz, 915Mhz, 920Mhz



Daviteq Wireless Sub-GHz – Easy of Use



Open cover
by 1 screw



Insert Battery AA 1.5V



Place sensor nearby
Wireless Co-
ordinator to add it in

Daviteq Wireless Sub-GHz Sensors & Actuators

WIRELESS SENSOR WS433-M12F



Icons: Wireless, IP67, Sub-GHz

CE FC RoHS

WS433-M12F-01-010

Wireless Sensor Transmitter

TEMPERATURE SENSOR FITTED WITH WS433-M12F



COMPACT SENSOR ATE-11

CABLE TYPE SENSOR ATE-12

ATE-11/12-010

Wireless Ambient Temperature Sensor

AMBIENT HUMIDITY / TEMPERATURE SENSORS FITTED WITH WS433-M12F



HUMIDITY SENSOR - COMPACT TYPE

HUMIDITY SENSOR - EXTENSION CABLE TYPE

ATH-11/12-010

Wireless Ambient Humidity Sensor

WIRELESS SENSOR WS433-M12F FITTED WITH PRESSURE SENSOR



WS433-M12F-01-010

Wireless Process Pressure Sensor

AMBIENT TEMPERATURE SENSORS



ATE-11

ATE-12-XXX

-40 ... +85 °C ±1-0.5 °C Accuracy
IP67 Protection

ATE-11/12-010

Ambient Temperature Sensor Module

AMBIENT HUMIDITY / TEMPERATURE SENSORS



ATH-11

ATH-12-XXX

0 ... 100% RH ±1-2.0% Accuracy

ATH-11/12-010

Ambient Humidity & Temperature Sensor Module

Daviteq Wireless Sub-GHz Sensors & Actuators

PROCESS PRESSURE SENSOR MODULE
PPS

GAUGE PRESSURE
ABSOLUTE PRESSURE

1 - 10 BAR
1 - 10 MPa
1 - 10 MPa
WORKING TEMPERATURE: -40...+125°C

Process Pressure Sensor Module

The image shows a cylindrical sensor module with a threaded top and a probe extending from the bottom. It is labeled as a Process Pressure Sensor Module (PPS) and lists various pressure measurement capabilities and a wide operating temperature range.

0-20mA CURRENT INPUT WIRELESS SENSOR
WS433-0A

CE FC

Wireless Sensor 0-20mA current input

The image shows a sensor with a blue body and a probe. It is labeled as a 0-20mA Current Input Wireless Sensor (WS433-0A) and features CE and FC certification marks.

OEM 0-3 VDC VOLTAGE INPUT
WIRELESS SENSOR WS433-VL

CE FC

OEM Wireless Sensor 0-3VDC voltage inputs

The image shows a sensor with a blue body and a probe. It is labeled as an OEM 0-3 VDC Voltage Input Wireless Sensor (WS433-VL) and features CE and FC certification marks.

DIGITAL INPUT - STATUS DETECTOR
WIRELESS SENSOR WS433-DI

CE FC

Wireless sensor Digital Inputs

The image shows a sensor with a blue body and a probe. It is labeled as a Digital Input - Status Detector Wireless Sensor (WS433-DI) and features CE and FC certification marks.

5A-AC CURRENT INPUT
WIRELESS SENSOR WS433-AC

CE FC

Wireless sensor AC current input

The image shows a sensor with a blue body and a probe. It is labeled as a 5A-AC Current Input Wireless Sensor (WS433-AC) and features CE and FC certification marks.

4-CHANNEL SPST RELAY OUTPUT
WIRELESS MODULE WS433-RL-14

4 x 0.1 CONTACT
1.5A@24VDC
0.5A@125VAC

CE FC

Wireless Relays

The image shows a sensor with a blue body and a probe. It is labeled as a 4-Channel SPST Relay Output Wireless Module (WS433-RL-14) and features CE and FC certification marks. It also lists contact ratings: 4 x 0.1 CONTACT, 1.5A@24VDC, and 0.5A@125VAC.

Daviteq Wireless Sub-GHz Sensors & Actuators

WIRELESS CO-ORDINATOR
WS433-R



Wireless Co-ordinator

CE FC RoHS

WS433-R (1) Pkg

This image shows a black rectangular wireless co-ordinator unit with a long, thin antenna extending from the top. It is connected to a black cable that loops around the unit.

WIRELESS BRIDGES
WS433-B



Wireless Bridges

CE FC RoHS

WS433-B (1) Pkg

This image shows a black rectangular wireless bridge unit with a long, thin antenna extending from the top. It is connected to a black cable that loops around the unit.

WIRELESS SOIL MOISTURE SENSOR
WS433-SMT



WIRELESS SOIL MOISTURE SENSOR

BATTERY OPERATED!

CE FC RoHS

EMC COMPLIANCE
EN50131-1:2011
EN50131-2:2011
EN50131-3:2011

WS433-SMT (1) Pkg

This image shows a blue rectangular wireless soil moisture sensor unit with a long, thin antenna extending from the top. It is connected to a black cable that loops around the unit. The unit has a small display screen on the front.

LONG RANGE WIRELESS BRIDGES
WS433-BL



Long Range Wireless Bridges

CE FC RoHS

WS433-BL (1) Pkg

This image shows a blue rectangular long range wireless bridge unit with a long, thin antenna extending from the top. It is connected to a black cable that loops around the unit.

ZONE 1/2 EXPLOSION-PROOF WIRELESS BRIDGES
WS433-BLEX



Sub-GHz Ex d Wireless Bridges

CE FC RoHS ATEX

WS433-BLEX (1) Pkg

This image shows a blue and black zone 1/2 explosion-proof wireless bridge unit with a long, thin antenna extending from the top. It is connected to a black cable that loops around the unit.

LONG RANGE WIRELESS COORDINATOR
WS433-CL



LONG RANGE WIRELESS CO-ORDINATOR

CE FC RoHS

WS433-CL (1) Pkg

This image shows a blue rectangular long range wireless coordinator unit with a long, thin antenna extending from the top. It is connected to a black cable that loops around the unit.

[Click here for More info](#)

Daviteq LoRaWAN Sensors

Daviteq LoRaWAN Sensors

- ✓ **Very Long Distance communication**
2-3 kms in urban or go through 8 floors
- ✓ **Up to 10-year Battery life**
by popular AA battery Alkaline or Lithium
- ✓ **Strong functions**
For Alarm processing, counting...
- ✓ **CE/RED/FCC Compliance Ready**
to be certified soon
- ✓ **Many kinds of Sensors and I/O**
Temperature, humidity, pressure, level, analog, digital, ambient light, vibration, gas sensor, liquid sensor...

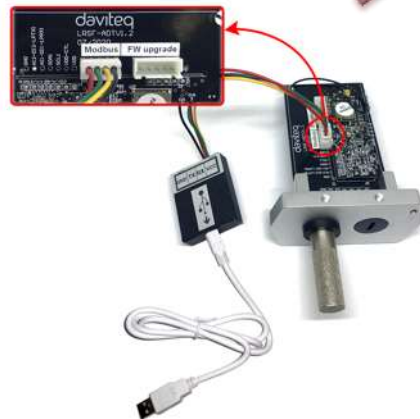


Daviteq LoRaWAN Sensors – Easy of Use



Open 2 screws by Allen key

Configuration by Offline cable with free software



Insert 02 x AA batteries 1.5V

Manually triggering data sending by Magnetic key



Daviteq LoRaWAN Sensors



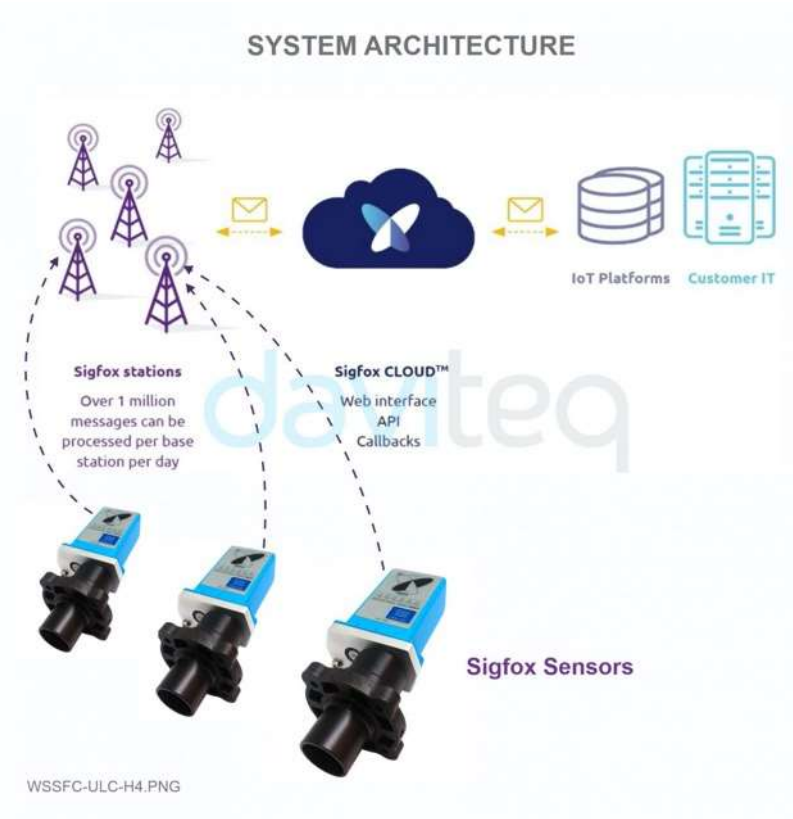
and more

[Click here for more info](#)

Daviteq Sigfox Sensors

Daviteq Sigfox Sensors

- ✓ **Very-very Long Distance communication**
4-6 kms in urban or go through 12 floors
- ✓ **Up to 10-year Battery life**
by popular AA battery Alkaline or Lithium
- ✓ **Strong functions**
For Alarm processing, counting...
- ✓ **CE/RED/FCC Compliance Ready**
to be certified soon
- ✓ **Many kinds of Sensors and I/O**
Temperature, humidity, pressure, level, analog, digital, ambient light, vibration, gas sensor, liquid sensor...



Daviteq Sigfox Sensors – Easy of Use



Open 2 screws by Allen key

Configuration by Offline cable with free software



Insert 02 x AA batteries 1.5V

Manually triggering data sending by Magnetic key



Daviteq Sigfox Sensors



and more

[Click here for more info](#)

Daviteq Fuel Sensors & Fuel Monitoring

Daviteq Fuel Level Sensors

- ✓ More than 50.000 sensors produced
- ✓ Robust mechanical design
- ✓ High stable measurement
- ✓ Smart Firmware allows Auto-Calibration
- ✓ Multiple output: 1-5VDC, RS232, 4-20mA, RS485...
- ✓ CE Mark



[Click here for more info](#)

Daviteq IoT Products

*and
more*

....

[Click
here for
more
info](#)

iConnector - SMART IOT GATEWAY



CELLULAR VERSION
ETHERNET VERSION
WiFi VERSION

STHC-H1-IMG

Smart IoT Gateway - iConnector

MODBUS RTU REMOTE IO MODULE
STHM-MBIO



STHC-MBIO-IMG

Modbus Remote IO Module

ZONE 1/2 EXPLOSION-PROOF IOT GATEWAY
Ex d iConnector STHC-X



STHC-X-IMG

CE FC ATEX

Ex d approved Smart IoT Gateway - Ex d
iConnector

INDUSTRIAL IOT SERVER



+70°C
IP67

STHC-IMG

WiFi LTE

Industrial Globiots Servers

SMART IOT GATEWAY - iConnector with Integrated I/O
STHC-IO



STHC-IO-IMG

CE FC

Smart IoT Gateway - iConnector with integrated
IO module

SMART IOT GATEWAY - iConnector BATTERY OPERATED
STHC-B



STHC-B-IMG

CE FC

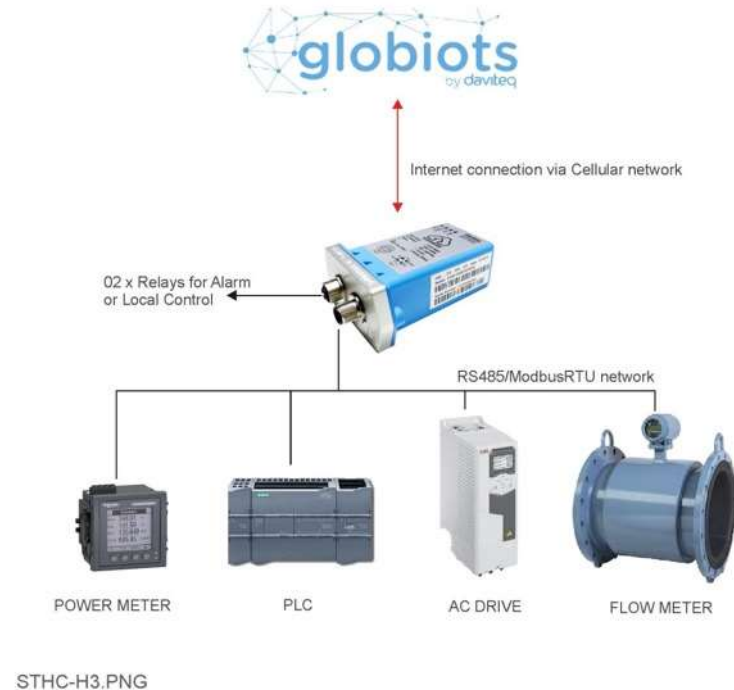
Smart IoT Gateway - iConnector Battery
operated

Daviteq IoT Products – Smart IoT Gateway

Daviteq Smart IoT Gateways

- ✓ Robust Industrial Design IP67/68 for outdoor harsh environment
- ✓ Smart IoT Gateway
3-in-1, Data logger + Logic Controller + Gateway
- ✓ Remote Activation/Configuration via Globiots platform...
- ✓ CE/RED/FCC Compliance Ready to be certified soon
- ✓ Support GPRS/3G/4G/NB-IoT/M1/WiFi/Ethernet to suite different applications

TYPICAL APPLICATION



Smart IoT Gateway – Easy of Use

CONNECT TO RS485 - CONFIGURATION
CABLE via M12 CONNECTOR



5THC-80000DB-WS413-CL-04-M12-PHE

Offline
configuration
the
Connectivity

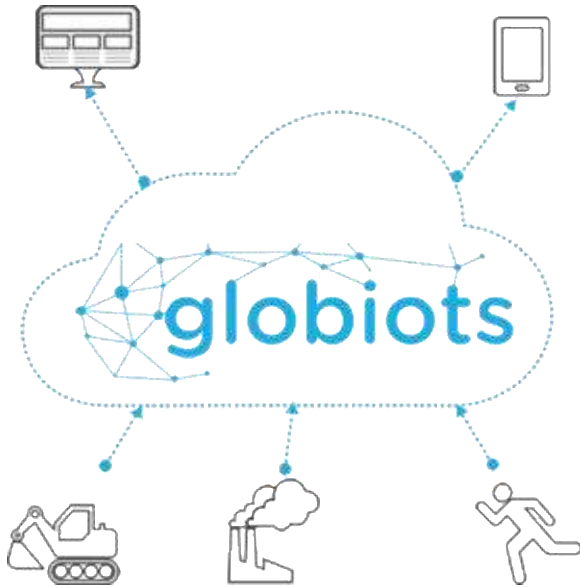


Log in Globiots portal
for
Activation
Configuration



Configuration for
Dashboard / Report
and start to use!

Daviteq IoT Products – Globiots Platform



- Globiots is a Global Industrial Internet of Things Platform, developed by Daviteq since 2012, gained from 10-year experiences in Measurement & Controls;
- Globiots platform allows customers easily connect their machine, process & people for Remote Management and Business Intelligent.
- Globiots can be deployed and installed everywhere in the World. All Globiots clusters can be connected worldwide to form a distributed world-wide IoT system.

Daviteq IoT Products – Globiots Platform

Globiots system on Cloud



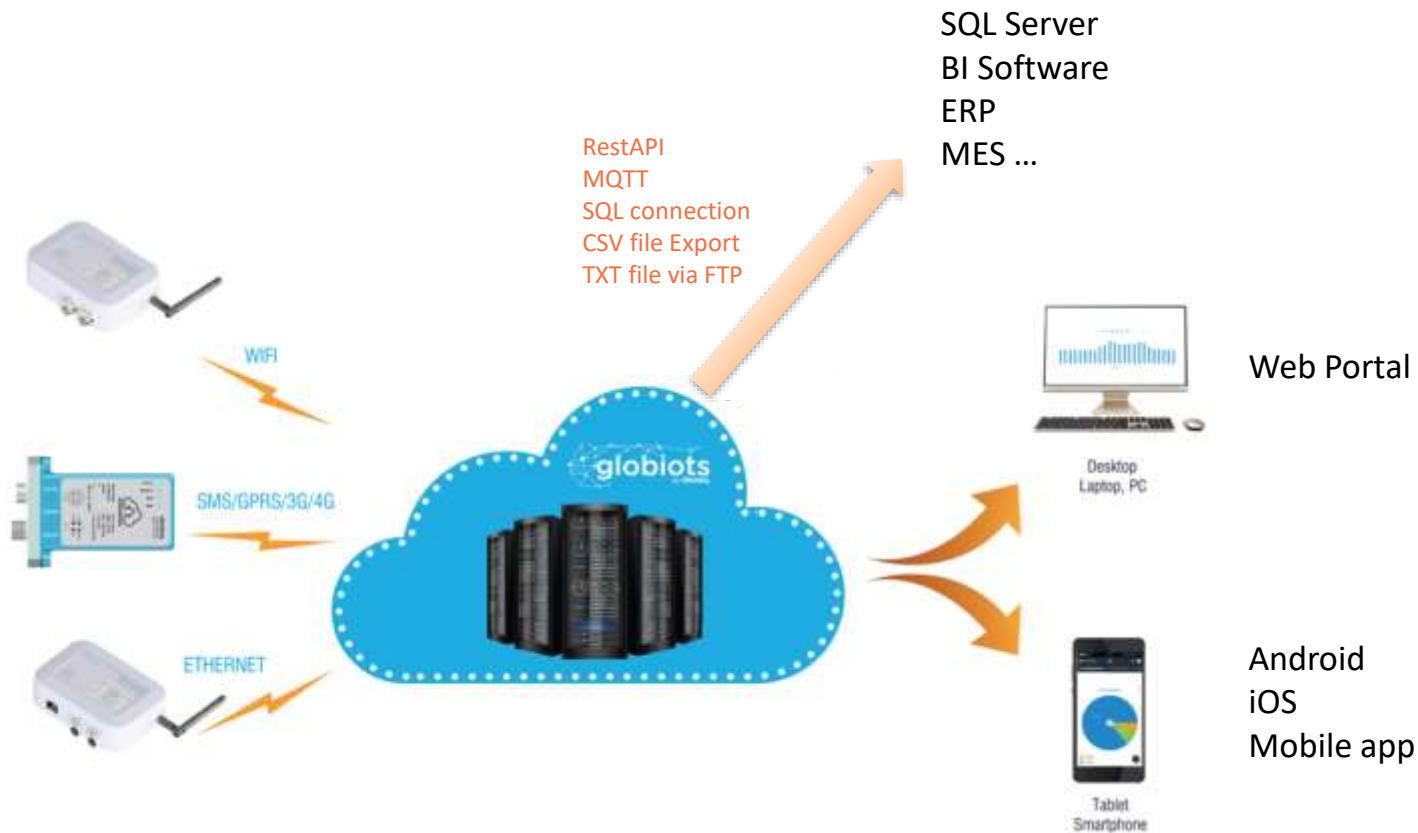
**Globiots system in
On-premise
Industrial Server**



OR



Daviteq IoT Products – Globiots Platform



IoT Solutions

1. Power monitoring
2. Temperature and humidity monitoring
3. Machine operation monitoring
4. Machine performance monitoring
5. Refrigerated container monitoring
6. Fuel monitoring
7. Greenhouse monitoring
8. Hydroponics system monitoring
9. Corrosion monitoring for gas pipeline
10. Boiler monitoring
11. Server room monitoring

IoT Solutions

12. Pharmacy warehouse monitoring
13. Chiller monitoring
14. Generator set monitoring and control
15. Telecommunication station monitoring
16. Pump station remote monitoring and control
17. Waste air monitoring
18. Fire alarm system monitoring
19. Metal processing machine tool monitoring
20. Plastic extruder monitoring
21. Water monitoring in shirmp farm
22. Dry food silo monitoring and control

IoT Solution – Power Monitoring

Highlight Features

1. Various power meter type monitoring
2. Easy upgrade and expansion
3. Quick system deployment
4. Investment optimization
5. Optimized software

Applied Industries

- Smart Factory
- Smart Logistics
- Smart City
- Smart Agriculture
- Smart Facility



IoT Solution – Temperature & Humidity Monitoring

Highlight Features

1. True wireless sensor
2. Easy upgrade and expansion
3. Quick system deployment
4. Investment optimization
5. Easy system maintenance

Applied Industries

- Smart Factory
- Smart Logistics
- Smart City
- Smart Agriculture
- Smart Facility



IoT Solution – Machine Operation Monitoring

Highlight Features

1. Various machine type monitoring
2. Easy upgrade and expansion
3. Quick system deployment
4. Investment optimization
5. Convenient system maintenance

Applied Industries

- Smart Factory
- Smart Logistics
- Smart City
- Smart Facility



IoT Solution – Machine Performance Monitoring

Highlight Features

1. Various machine type monitoring
2. Easy upgrade and expansion
3. Quick system deployment
4. Investment optimization
5. Customized and specialized software

Applied Industries

- Smart Factory
- Smart Logistics
- Smart City
- Smart Facility



IoT Solution – Refrigerated Container Monitoring

Highlight Features

1. Anywhere, anytime monitoring
2. Easy upgrade and expansion
3. Quick system deployment
4. Investment optimization
5. Customized and specialized software
6. Convenient data exchange

Applied Industries

- Smart Logistics
- Smart City
- Smart Agriculture



IoT Solution – Fuel Monitoring

Highlight Features

1. Anywhere, anytime monitoring
2. Easy upgrade and expansion
3. Quick system deployment
4. Investment optimization
5. Customized and specialized software
6. Convenient data exchange

Applied Industries

- Smart Factory
- Smart Logistics
- Smart City
- Smart Facility



IoT Solution – Greenhouse Monitoring

Highlight Features

1. Anywhere, anytime monitoring
2. True wireless sensor
3. Easy upgrade and expansion
4. Quick system deployment
5. Investment optimization
6. Fast system maintenance

Applied Industries

- Smart City
- Smart Agriculture
- Smart Facility



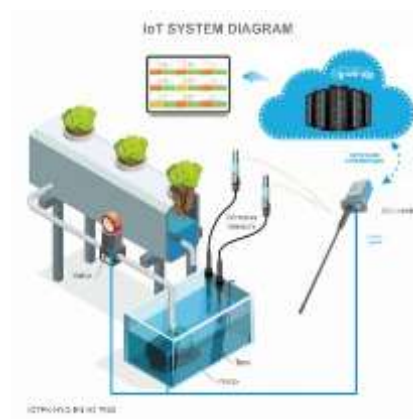
IoT Solution – Hydroponics System Monitoring

Highlight Features

1. Anywhere, anytime monitoring
2. True wireless sensor
3. Easy upgrade and expansion
4. Quick system deployment
5. Investment optimization
6. Fast system maintenance

Applied Industries

- Smart City
- Smart Agriculture



IoT Solution – Server Room Monitoring

Highlight Features

1. Real time 24/7 monitoring
2. Available API for 3rd party software
3. Automatic alarm notification
4. Optimized and flexible investment
5. 30-minute installation
6. Customized functions and reports
7. “True wireless” system, max 1000m
8. Easy upgrade and expansion

Applied Industries

- Smart Facility



IoT Solution–Pharmacy Warehouse Monitoring

Highlight Features

1. Real time 24/7 monitoring
2. Available API for 3rd party software
3. Automatic alarm notification
4. Optimized and flexible investment
5. 30-minute installation
6. Customized functions and reports
7. “True wireless” system, max 1000m
8. Easy upgrade and expansion

Applied Industries

- Smart Logistics
- Smart Facility



Some Case studies



0 0

Effective monitoring of In2food's cool rooms with wireless sensors

May 21, 2020 / Marketing Department / Real Estate, Livestock, HiTech, Pharmaceutical, Entertainment, Chemicals, Hospitality, Logistic, Apparel, Banking, Plastic & Rubber, Furniture, Agriculture, Wholesale - Retail, Sugar, Biotechnology, Food & Beverage, Telecommunication, Cement, Environmental, Healthcare



"With Daviteq's high performance, durable and long-lasting wireless sensor and receiver, reliable cloud platform powered by IBM cloud, as well as simple, powerful and easy to use monitoring app, we give the production manager peace of mind knowing the facility is being monitored 24/7 hours a day 365 days a year by Templogger's solution. The solution helps customer reduce daily labour costs, promote high food safety standards and keep accurate temperature records."

Connor Sweeney - Co-Founder



0 0

Tinasoft deploys fast IoT greenhouse with Sub-GHz sensors

March 24, 2020 / Marketing Department / Case studies, HiTech, Agriculture, Biotechnology



"Daviteq provides a comprehensive hardware solution from sensor to co-coordinator with various Sub-GHz wireless sensors. In comparison with other suppliers, Daviteq's differentiations are completeness on products as well as easy integration in hardware and software. Therefore, Tinasoft could concentrate in developing IoT software and control module for IoT solution of greenhouse."

Nguyen Quoc Uy - CTO

Some Case studies



Globiots application for vaccine, pharmaceutical warehouse

March 13, 2020 - Marketing Department - Case studies, Livestock, Pharmaceutical, Chemicals, Logistic, Agriculture, Biotechnology, Healthcare

" Incident of vaccine fridges results in our loss of 1.2 billion VND, 7-day vaccination stagnation and huge indirect loss in top 1 medical group of Vietnam. With only 30 million VND investment, Daviteq's pharmacy monitoring system automatically calls manager if vaccine temperature is out of range (< 2 oC and > 8 oC) or water leakage is on the floor. We are impressed by Daviteq's advanced wireless sensors as well as their professional project team. The system is deployed within only 15 minutes and monitor all factors in our warehouse (temperature, humidity, equivalent-grade environment...).



Esquel apply Globiots to save 5% energy consumption

February 24, 2020 - Marketing Department - Real Estate, Case studies, Machinery, Oil & Gas, Utilities, Pharmaceutical, Manufacturing, Chemicals, Hospitality, Logistic, Apparel, Mining, Banning, Power Plant, Plastic & Rubber, Furniture, Agriculture, Wholesale - Retail, Sugar, Steel, Livestock Feed, Food & Beverage, Consulting, Telecommunication, Cement, Healthcare



"IoT Globiots energy management solution helps us to find out electrical energy waste especially at night time and to design relevant methods to save 5% electrical energy without further investment"

Nguyen Tri Dung - Factory technical manager

THANK YOU!



daviteq