Serverless AIoT.
Smarter, Simpler, Stronger.

"Serverless AIoT. Smarter, Simpler, More Powerful"

Reduce cost and time with AIoT technology, and achieve stable and simple operation.

ALT2

ROUTE 17

Serverless IoT Solution - Simpler and More Powerful!
ROUTE17 enables easy IoT device control and management without external servers. Control and monitor your devices in real-time through any web browser - no app installation or additional servers required. Build a smart management environment quickly and cost-effectively.

01

Fast and simple IoT solutions for your business
IoT System Adoption - Fast and Simple!

02

NO Server · NO App · NO Registration · ZERO Subscription Fee
Serverless - Simpler and More Powerful!

Features

Cost Reduction
Reduces maintenance costs with no external servers required, and enables economical operation with no subscription fees or ongoing cost burden.

Stability
Provides high-level security with SHA-256 encryption, minimizes hacking and data breach risks, and enables fast, secure direct management without external server dependency.

Convenience
Access and control from any device via web browser only, with easy management anytime, anywhere through notifications and logs.

Scalability
Supports RS485 and MQTT protocols for scheduling, notifications, and remote control integration without separate servers, enabling scalable operation.

Web Service / ODM Service

Customized services for customers
(CI implementation, dedicated settings, domain connection, etc.)
Free/paid service options provided based on requirements

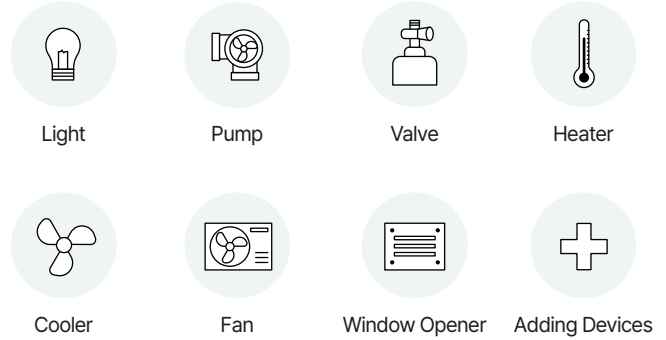Dashboard

Sensor Graph

Relay Settings

Dashboard

ROUTE17 Controller Gateway

Wireless Network : 2.4Ghz 802.11 b/g/n
Relay Channel : 8CH
Relay Load Capacity : 5A 250VAC/30VDC
Input Channel : 2CH
Supported Protocols : RS485, MQTT, I2C
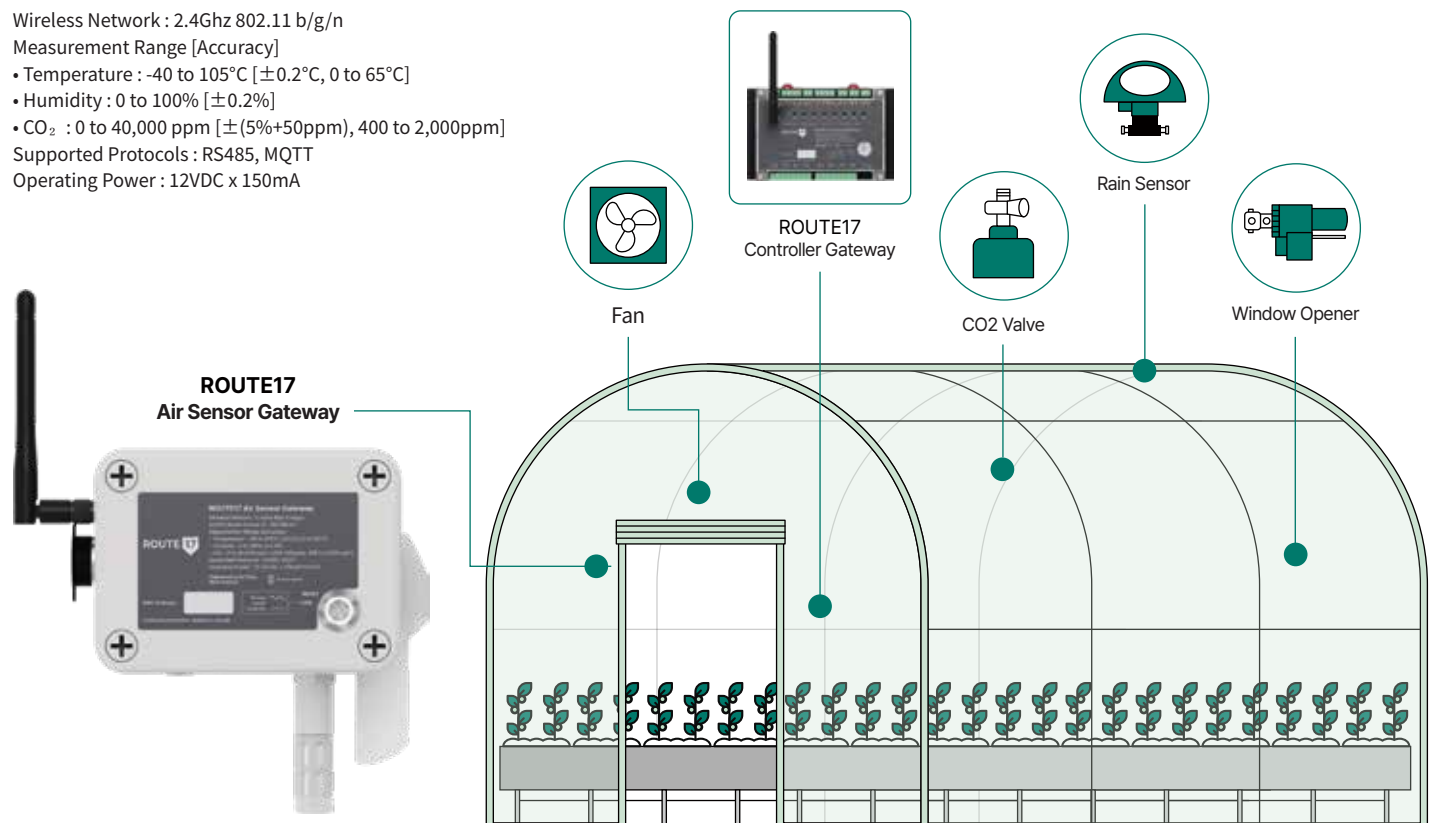Operating Power : 12-24VDC x 450mA(12VDC)

"Diverse Device Control, One Solution"

Achieve smarter control through integration with various devices. ROUTE17 provides continuous device expansion and flexible responsiveness.
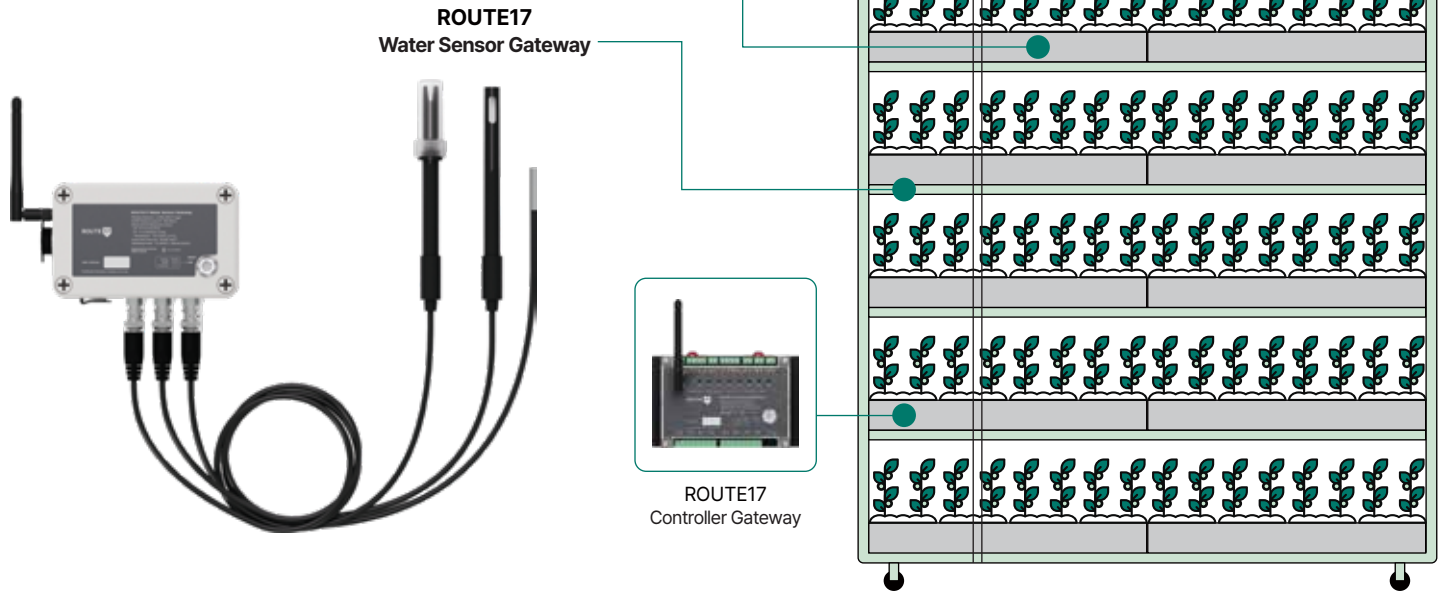
Light

Pump

Valve

Heater

Cooler

Fan

Window Opener

Adding Devices

ROUTE17 Air Sensor Gateway

Wireless Network : 2.4Ghz 802.11 b/g/n
Measurement Range [Accuracy]
• Temperature : -40 to 105°C [±0.2°C, 0 to 65°C]
• Humidity : 0 to 100% [±0.2%]
• CO_2 : 0 to 40,000 ppm [±(5%+50ppm), 400 to 2,000ppm]
Supported Protocols : RS485, MQTT
Operating Power : 12VDC x 150mA

Fan

ROUTE17
Controller Gateway

CO2 Valve

Rain Sensor

Window Opener

**ROUTE17
Air Sensor Gateway**

ROUTE 17

ROUTE17 Water Sensor Gateway

Wireless Network : 2.4Ghz 802.11 b/g/n
Measurement Range [Accuracy]
• pH : 0.1 to 14.0 [±0.1]
• EC : 0 to 20mS/cm [±2%]
• Temperature : -20 to 80℃ [±1℃]
Supported Protocols : RS485, MQTT
Operating Power : 12-24VDC x 150mA(12VDC)

**ROUTE17
Water Sensor Gateway**

Nutrient Dosing Pump

pH+ Dosing Pump

pH- Dosing Pump

Solenoid Valve

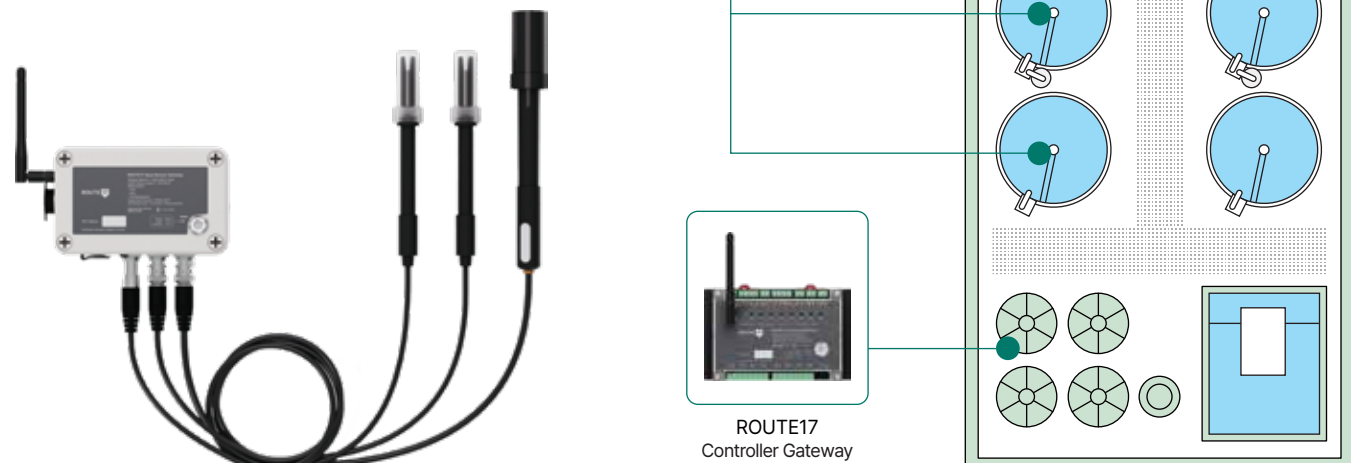ROUTE17
Controller Gateway

ROUTE17 Aqua Sensor Gateway

Wireless Network : 2.4Ghz 802.11 b/g/n
Measurement
• Ammonia
• Nitrate
• Nitrite
• Dissolved Oxygen
• Water Temperature
Supported Protocols : RS485, MQTT
Operating Power : 12-24VDC x 150mA(12VDC)

Applications
• Fish farms (water quality and temperature control)
• Swimming pools (nwater replacement cycle alarm)

Water chiller

**ROUTE17
Aqua Sensor Gateway**

ROUTE17
Controller Gateway

ROUTE17 Power Meter Gateway

Wireless Network : 2.4Ghz 802.11 b/g/n
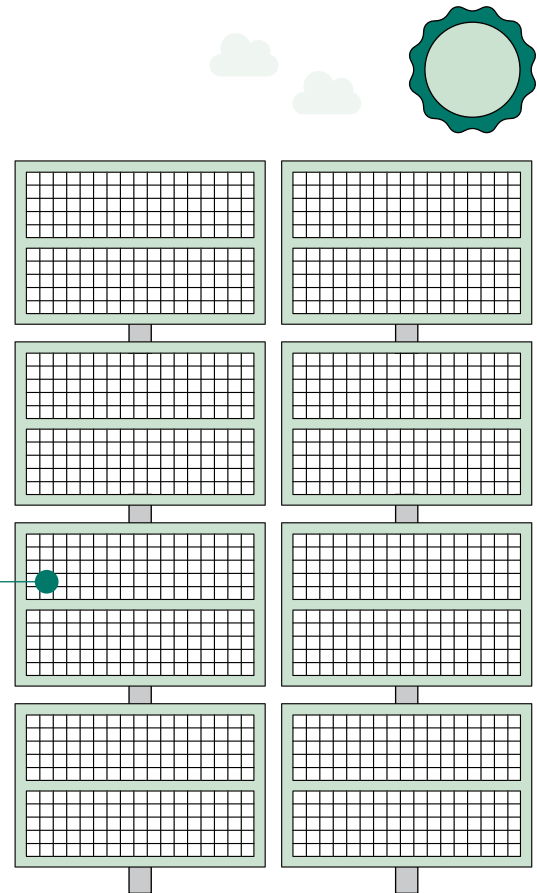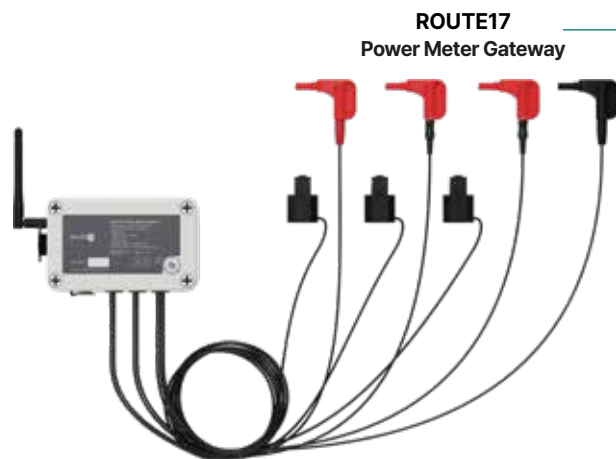Measurement
 • 3P4W Voltage / Ampere
 • 3P4W Power
 • 3P4W Engergy
Supported Protocols : RS485, MQTT
Operating Power : 12-24VDC x 150mA(12VDC)

Applications
 • Solar power generation (solar power generation monitoring)
 • Smart factories and smart homes (power consumption monitoring and power usage alarm)

**ROUTE17
Power Meter Gateway**

ROUTE17 Soil Sensor Gateway
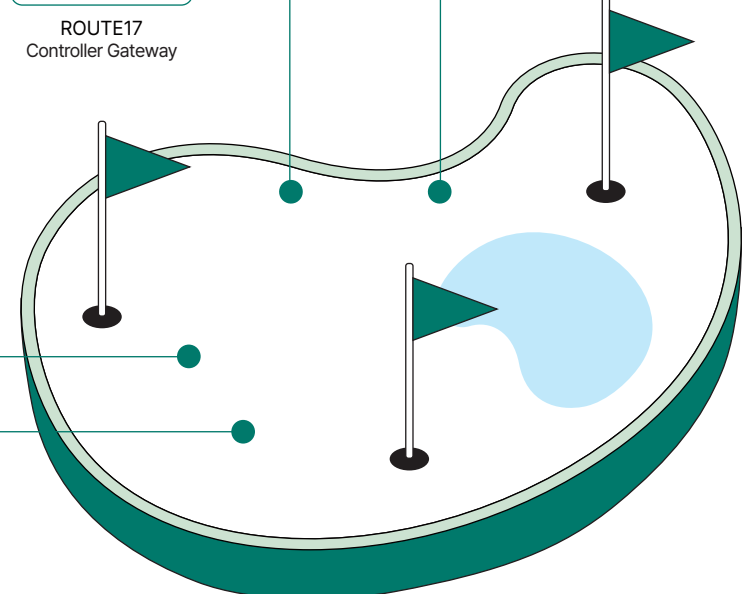
Wireless Network : 2.4Ghz 802.11 b/g/n
Measurement
 • Temperature
 • Humidity
 • EC Supported Protocols : RS485, MQTT
Operating Power : 12VDC x 150mA

Applications
 • Landscaping management (irrigation cycle monitoring and management)
 • Field agriculture (field irrigation and fertigation management)

ROUTE17
Controller Gateway

Sprinkler

**ROUTE17
Soil Sensor Gateway**

5

⊠ AltisAI

"Choose an AIoT server for a smarter, more advanced solution."

AltisAI Cloud Service offers a streamlined AIoT serverless solution, optimized
for data collection, analysis, and seamless control and operations.
By integrating with ROUTE17, it creates a truly smart management ecosystem without servers,
enabling predictive analytics and automated scheduling for enhanced efficiency and reliability.

Introduction to AltisAI

AIoT support	It provides integrated control, scheduling, and AI-powered data analytics through a cloud server, empowering optimal decision-making and enabling automated control. This helps customers manage complex control environments efficiently without the burden of processing vast amounts of data.
Service scalability	AltisAI can be directly connected to the ROUTE17 Gateway, allowing for easy scalability across various industries. Thanks to ROUTE17's distributed control capabilities, system complexity is reduced, simplifying management.This approach minimizes cloud dependency while offering flexible scalability and high operational efficiency.
Use Case #1 SMART FACTORY CASE	AltisAI monitors changes in raw material pressure during processes using pressure sensors. When an anomaly is detected, it analyzes the data to identify the root cause and adjusts machine operations to maintain quality.
Use Case #2 SMART FARM	AltisAI analyzes weather conditions, soil moisture sensor data, and forecasted rainfall in real-time to determine the optimal timing for irrigation. This approach reduces water waste, provides an ideal environment for plant growth, and maximizes energy efficiency.

Phase 01
Data Analysis Service
·Real-time equipment/sensor monitoring
·Early anomaly detection & alerts
·Auto-generated operation reports
·Data-based maintenance planning
·Work efficiency analysis & reports

Phase 02
AI-Based Decision Support System
·AI-driven equipment operation analysis
· Predictive maintenance timing
·Optimal operation conditions per equipment
· Operational guides to boost productivity
· Cost-saving operation scenarios

⊠ AltisAI

about ALT2

Your Best Alternative AIoT Solution – Delivering the Ultimate Alternative for Your Business.
ALT2 is a technology leader providing optimized solutions for various sectors including smart farming, aquaculture, and swimming pools.
We empower customers' success by building innovative and efficient AIoT environments
across diverse industries.

ALT2's Capabilities

Integrated Technology Solution
Seamless Integration of Software, Hardware, and AI for Optimal Solutions

Providing Custom Solutions
Tailored System Design to Meet Customer Needs and Support Business Goals
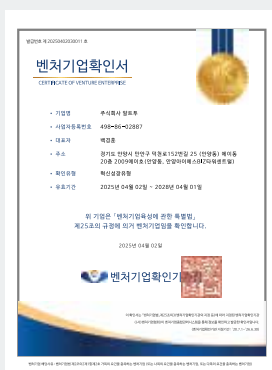
Driving Innovation through New Approaches
Boosting Competitiveness with AI-powered Data Collection, Analysis, Storage, and Processing

Expertise and Reliability
Reliable System Construction Backed by Proven Technology and Expertise

Footprint

2025.04 [Public Procurement Service] Registration for Bid Participation on KONEPS

2025.04 [ALT2] KC Certification Registration for 1 ROUTE17 IoT Gateway Product (WATER SENSOR)

2025.04 [EPIS] Registration as a Participating Company in the Smart Farm Expansion Project

2025.04 [Ministry of SMEs and Startups] Venture Company Certification

2025.03 [TIPA] Registration as a Smart Factory Business Management System Supplier

2025.03 [KOSME] Selected for the 2025 Youth Startup Academy Enrollment

2025.03 [KOAT] Selection for the 2025 National Standard Support Project for Smart Farm ICT Equipment

2025.02 [KITA] Registration of R&D Department

2024.11 [KICOX] Factory Registration

2024.10 [ALT2] Achieved First Product Sales

2024.09 [ALT2] KC Registration for ROUTE17 Controller and Air Sensor Products

2023.10 ALT2 Co., Ltd. Incorporated

ALT2

Your Best Alternative