

Connect Box

Beyond Building Monitoring

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How can I...

Intuitively deploy new technology in buildings?

Install & connect all your building devices in a few hours

Minimize my operational costs?

Significantly reduce your operational costs along your entire building's life

Simply collect and use my building's data?

Collect & use your building's data efficiently at your fingertips

Meet upcoming regulatory requirements?

Meet new regulations by increasing your building energy efficiency

* Examples of potential devices configurations present in different building types

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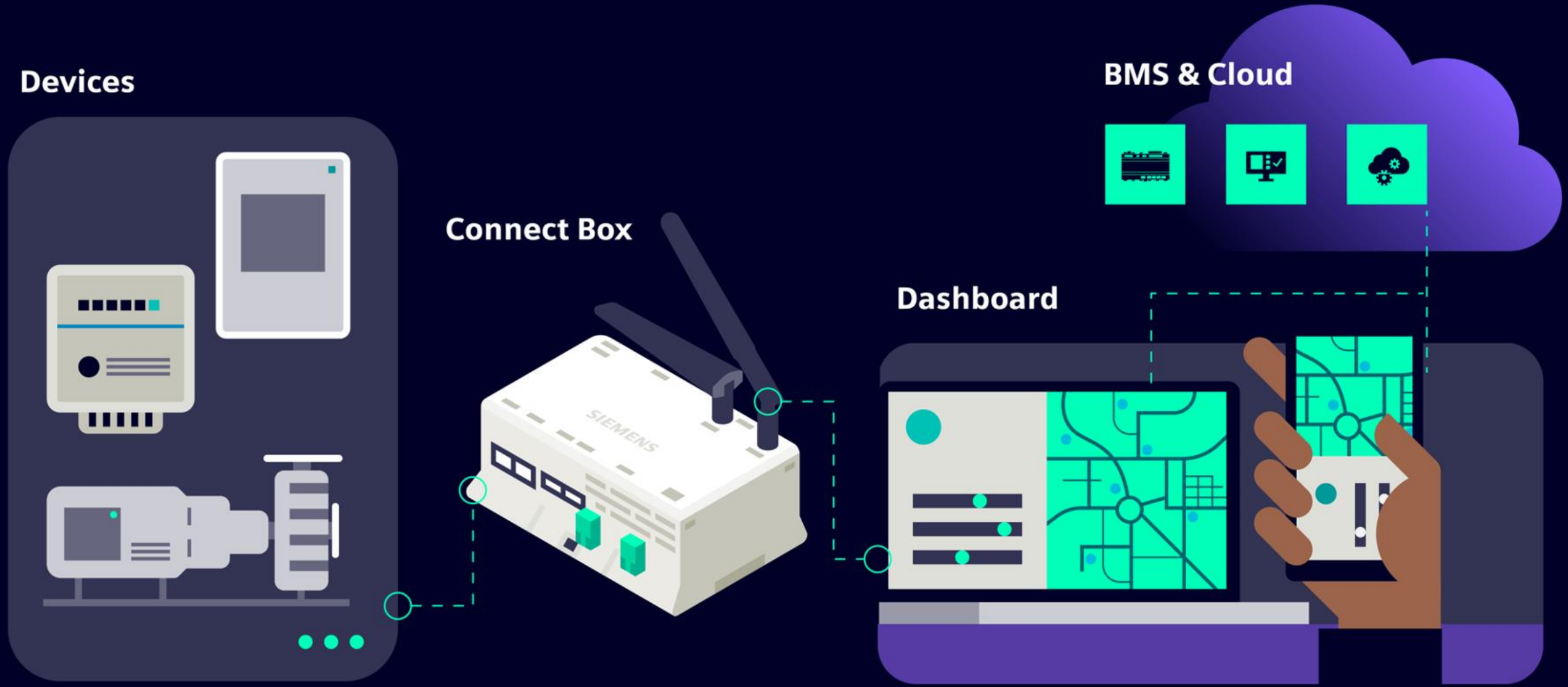
Meet your connectivity champion

for small to medium-sized buildings

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Connect Box

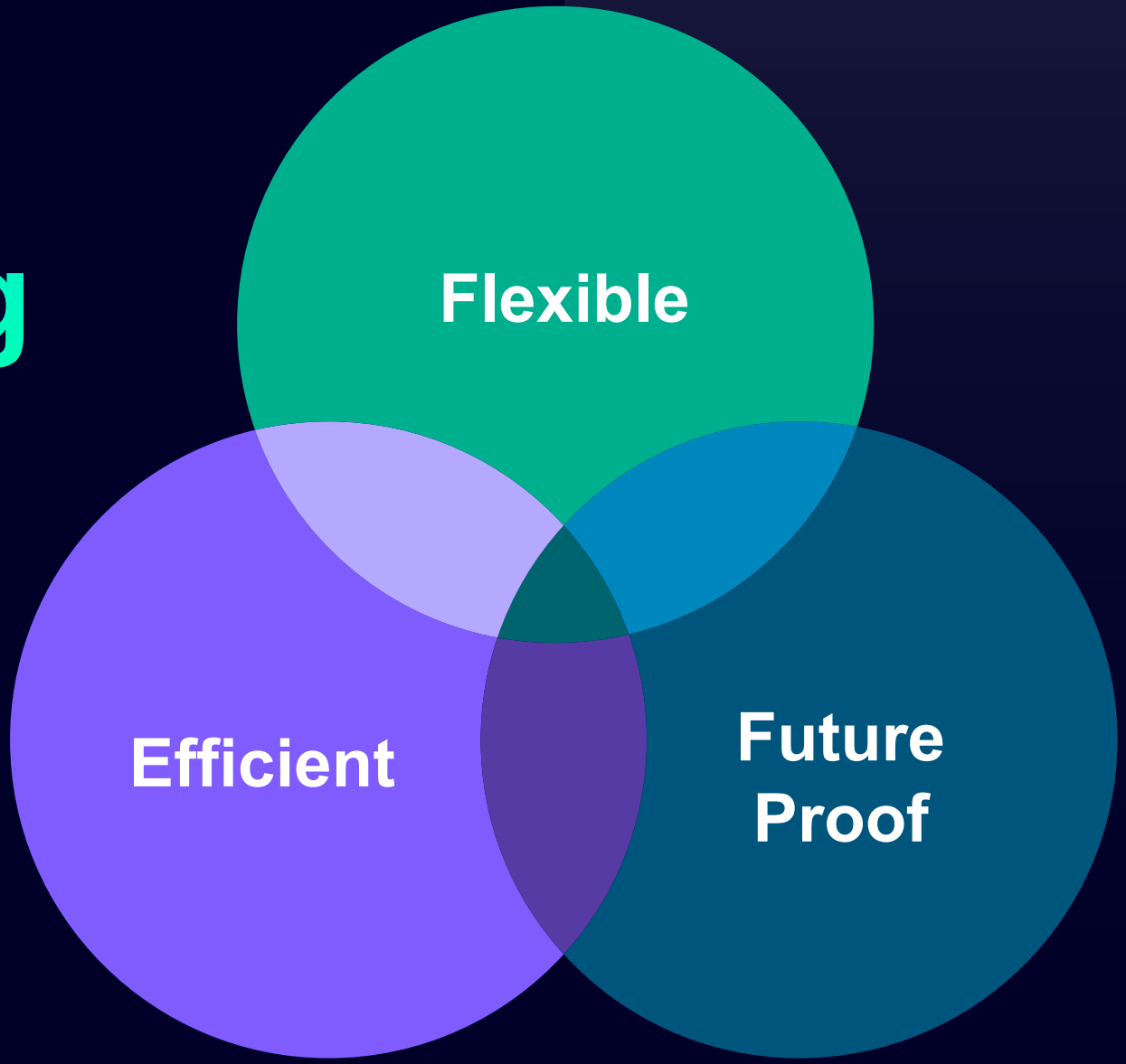


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Beyond Building Monitoring

Designed to go beyond just building monitoring and operations. Connect Box connects, collects, and distributes data insights to address diverse business needs and facilitate more intelligent, informed decision-making.

The Siemens Connect Box stands as your ultimate connectivity champion



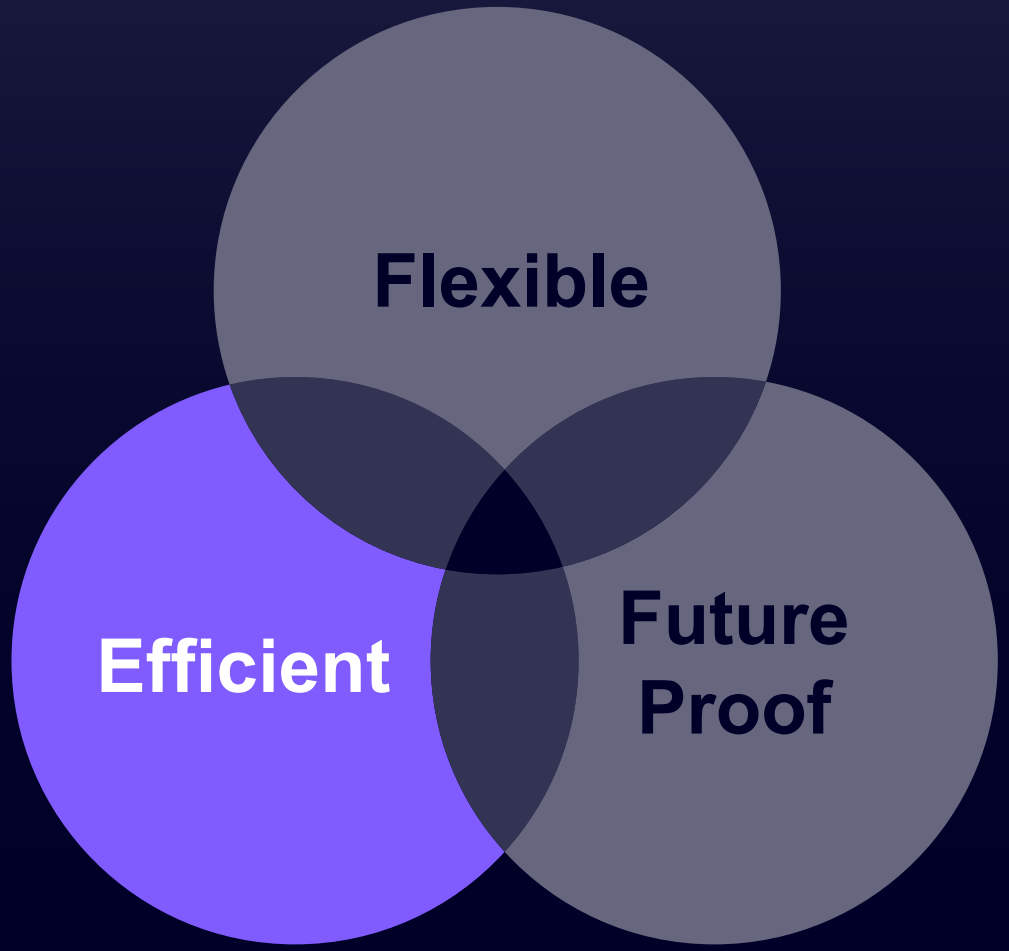
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Efficient

Efficient access to your building's **data, monitoring and operations**

- Seamless workflow from integration and installation to everyday use.
- Remotely configurable, intuitive dashboard UI, (desktop and smart phone), with hassle-free Over-The-Air updates.
- Intuitive interface that makes it easy to set up and manage your network.



BACnet M-Bus Modbus LoRaWAN MQTT KNX

Additional available protocols: LON FT10, LON IP-852, LPB, Diematic

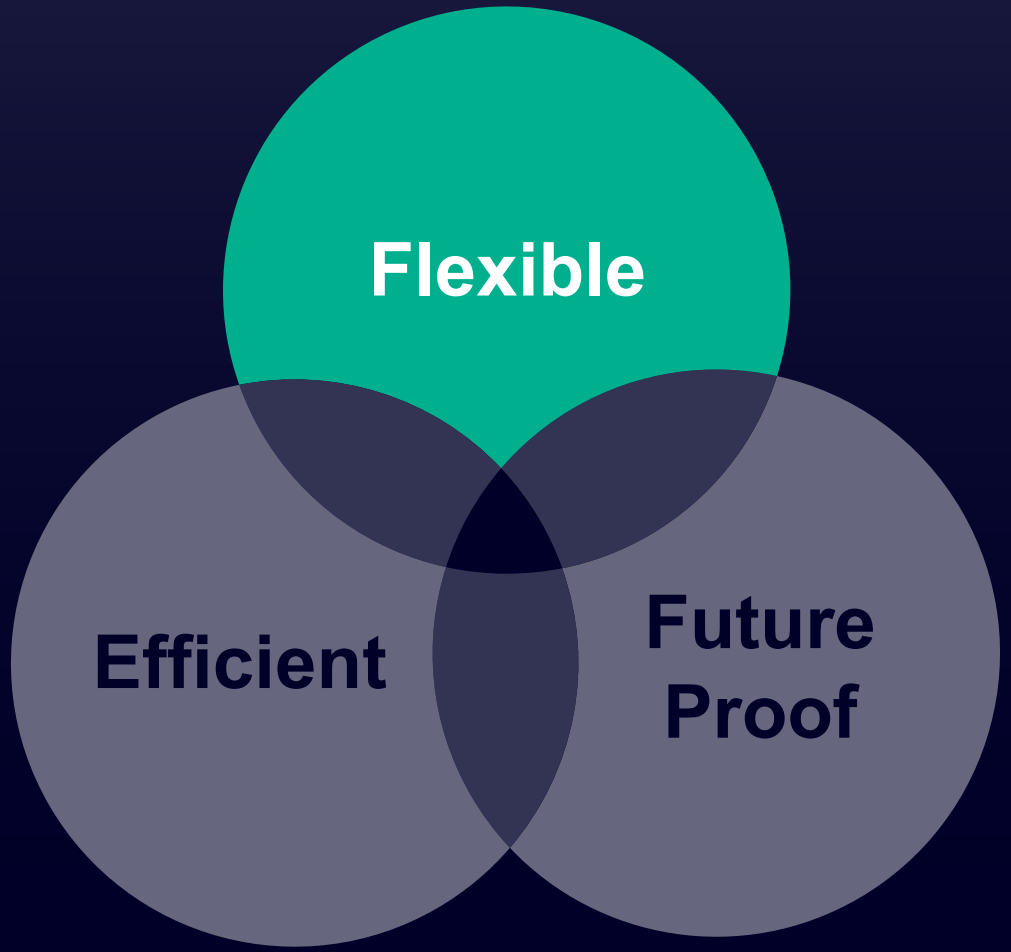
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Flexible

Flexible due to its versatility and adaptability in meeting various connectivity and automation needs

- 11 protocols, integrates with a growing database of a 1000 pre-decoded devices.
- Building optimization and efficiency gains from simple automation scenarios and schedule builder
- Integration with existing networks and wide-ranging compatibility.
- 150 manufacturers, adapting to diverse use cases.



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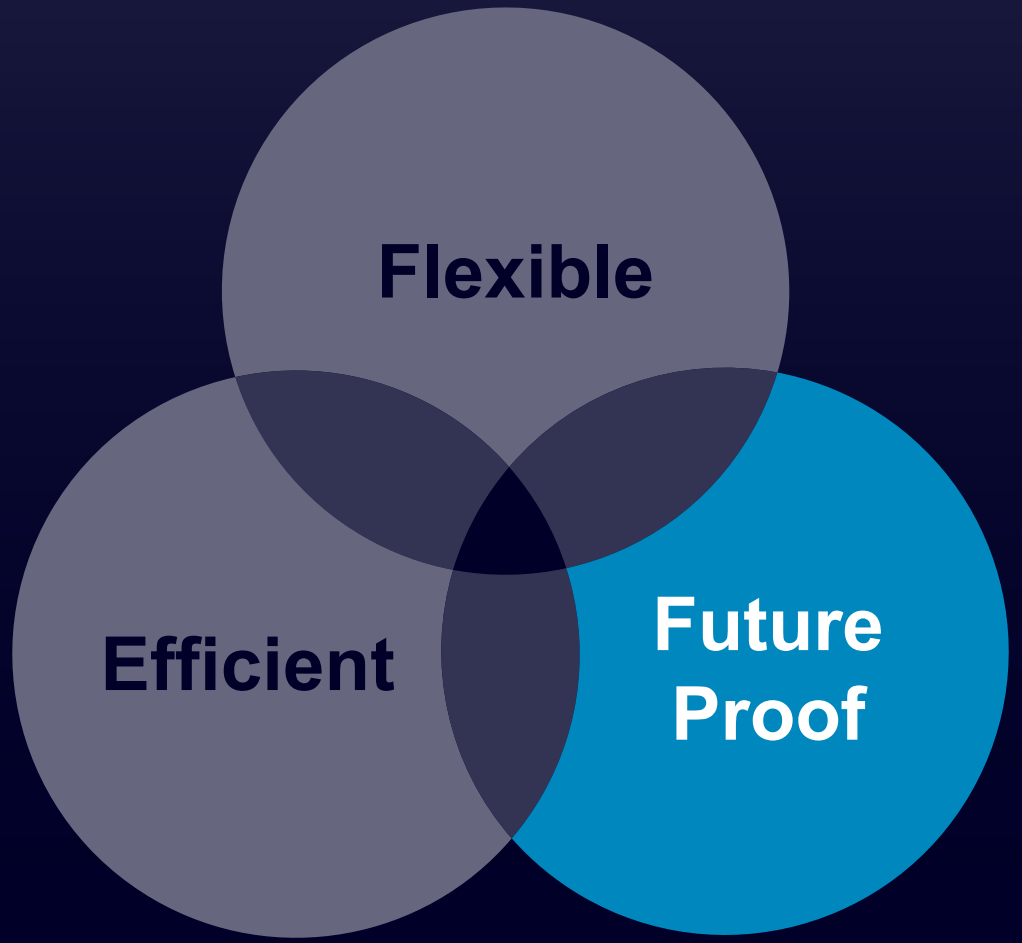
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Future proof

Scalability that **embraces existing as well as emerging technologies** thanks to open standards

- Regular firmware updates ensuring system security, reliability and adaptability to latest technology.
- Leveraging additional platforms like BMS and cloud applications, to continuously enhance system's functionality



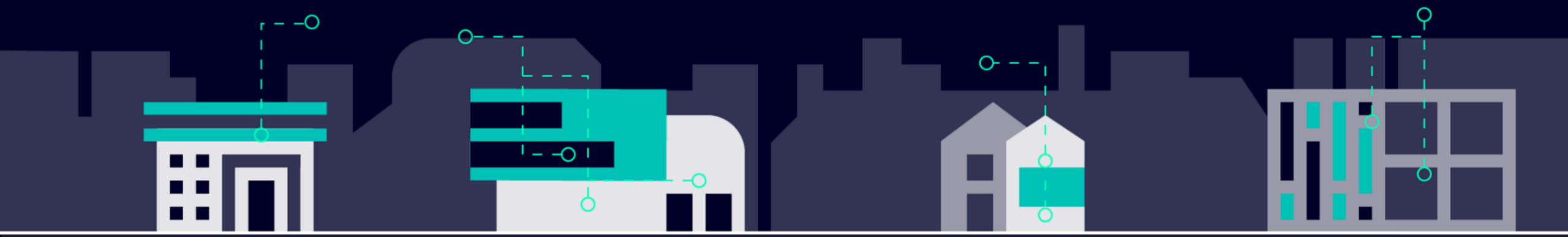
BACnet M-Bus Modbus LoRaWAN MQTT KNX

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Connecting everything everywhere



Bank branch

1 x Connect Box with On-premise license

- 5 x wireless comfort sensors
- 2 x occupancy sensors
- 1 x gas meter sensor

Schools

1 x Connect Box with On-premise license

- 15 x comfort sensors
- 1 x heat meter
- 1 x electricity meter
- 1 x water meter
- 1 x wireless gas meter sensor

Multi-family housing

1 x Connect Box with Cloud Lift license

- 2 x Boilers
- 2 x heating controllers
- 20 x wireless comfort sensors
- 4 x utilities sensors meter

Office building

1 x Connect Box with Cloud Control license

- 20 x equipment
- 100 x comfort sensors
- 50 x wireless occupancy sensors

* Examples of potential devices configurations present in different building types

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Simple, easy to follow editor make it easy automate your buildings



- Property values (e.g., temperature, occupancy)
- Schedule slots (e.g., working hours)

- Wait for conditions to repeat (e.g., twice in 30 minutes) before acting

- Change setpoints or schedule slots automatically

Key Benefits

Intuitive automation: Easily define setpoints and actions using a user-friendly interface.

Flexible triggers: Automate based on property values or schedule slots.

Smart control: Adjust heating, lighting or ventilation based on occupancy or time.

*Automation Scenarios feature is available only with Cloud Control licenses

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Connect Box enables you to:

Manage all the building activities from one place

- Monitor live building updates and view trends
- Be notified on potential issues
- No additional gateways or software needed
- Flexible building operation and elevated efficiency thanks to to schedule builder and automation scenarios

Ensure cybersecurity

- End-to-end encryption
- Outbound-port-only design
- 4G network separation

Connect anything in your building

- Integrate all your devices, wired and IoT
- Connect to cloud or integrate into existing systems
- Enable 3rd party integrations and ecosystem through open APIs



Easy to install and use

- Quick & simple to install
- Intuitively monitor and control energy, comfort and other properties
- No training or coding required
- Continuous software updates
- Simple if/then automation control

Comply with local regulations

- Fulfill IAQ monitoring requirements
- Achieve new energy and reporting requirements
- Build trust in the community

Leverage your own data

- 100% open
- No hidden fees or external providers
- Use open APIs to share data quickly
- Download your data for free and re-direct it to your cloud

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Overview of our focus target groups



Solution Provider

Overcome resource limitations, simplify workflows, and reduce integration risks while delivering superior service



Installer

Provide top-quality installation with confidence and ease, enabling valuable insights for your customers.



Building Owner

Monitor and operate your building and its assets flexibly and cost-effectively from anywhere, anytime

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Use Case 1: Operational efficiency and flexibility

Maximize building efficiency and compliance seamlessly

A leading service provider seeks to enhance its building management services with energy management and compliance solutions. The Connect Box offers interoperability and scalability to meet diverse client needs

Pain points

Difficulty in catering to clients with unique building profiles and energy usage patterns.

Keeping up with evolving energy consumption and CO_2 emission regulations.

Seamless integration of monitoring solutions with existing infrastructure.

Providing solutions that can grow with each client's needs without substantial re-investment.



Solution provider

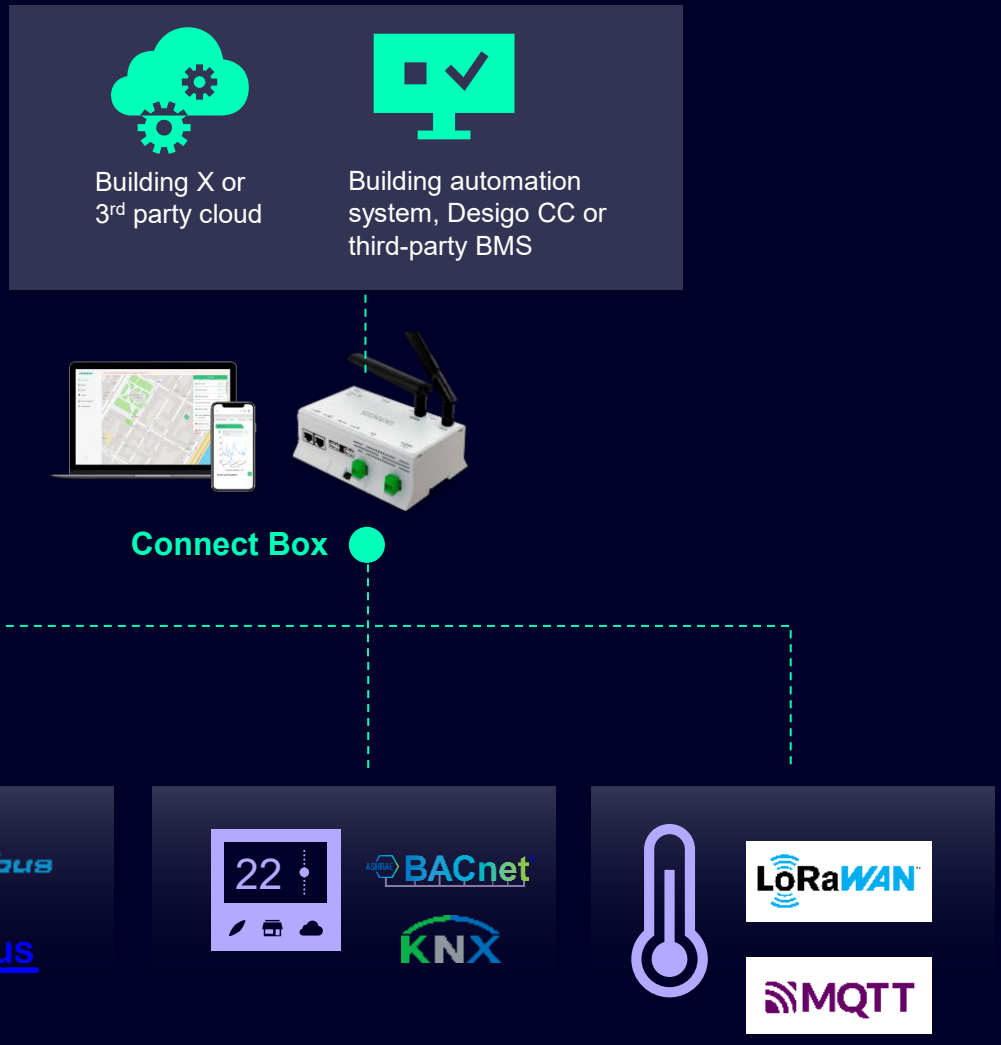
Motivation

Offer cutting-edge, sustainable building management solutions, differentiate services, expand revenue streams, and satisfy client demands for energy efficiency and regulatory compliance

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Easy upgrade and integration with advanced building automation system, BMS, Cloud with no additional tools



Solution:

Using Connect Box paired with an **On-Premise license**, the customer integrates all building devices: existing and new (i.e.: LoRaWAN wireless devices). With the existing network infrastructure, Connect Box transmits data on-premise to the existing BMS via BACnet (or cloud applications like Building X via MQTT). With building data now available in the local BMS, the end user can perform enhanced building management tasks and utilize tools to maintain compliance and reduce energy usage.

Benefits:

Seamless Integration: Connect Box allows effortless integration into existing BMS, automation systems, and cloud platforms, facilitating centralized and efficient control without supplementary tools.

Wide Device Compatibility: Designed to connect and manage both wired and IoT building devices, providing flexibility in upgrading and optimizing building automation and energy management practices.

Customization and Scalability: Tailored monitoring solutions adapt to different client requirements, supporting a vast range of building types and sizes, ensuring scalability for future expansions or technology upgrades.

Regulatory Compliance and Energy Efficiency: Integrating and monitoring real-time data ensures compliance with the latest energy standards and optimizes energy use.

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Use Case 2: Energy monitoring

Provide comprehensive energy optimization, reducing costs and emissions through precise monitoring

A facility management company manages various properties, striving to meet energy efficiency standards and comply with regulations. Implementing the Connect Box empowers the company with advanced technology for real-time data monitoring, facilitating compliance and cost savings.

Pain points

Stringent regulations for energy consumption and CO_2 emissions.

Complex and resource-intensive tracking of energy use across multiple buildings.

Need to reduce operational costs while maintaining comfort.

Difficulty in identifying and addressing maintenance issues without real-time data.



Installer

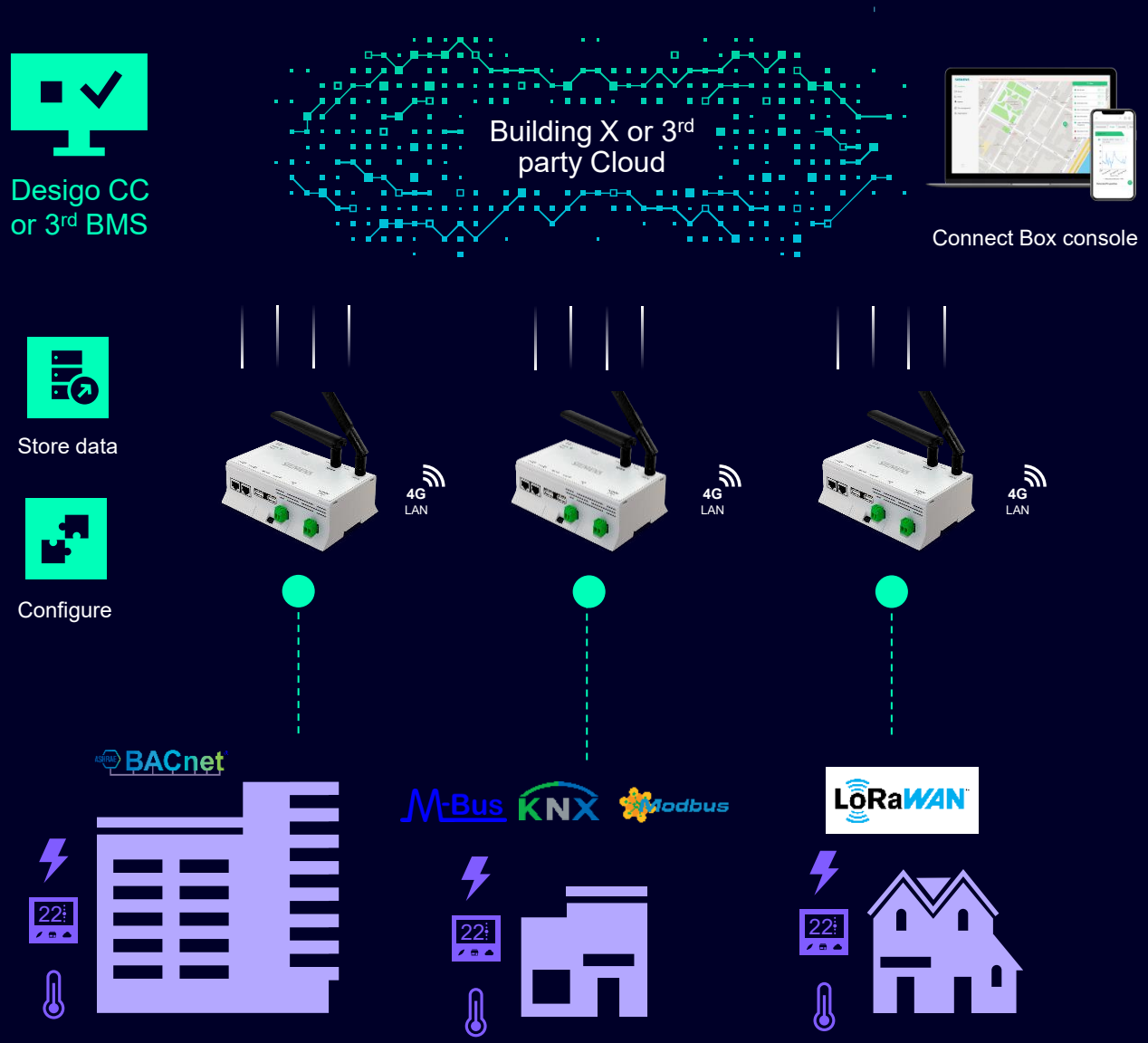
Motivation

Ensure regulatory compliance, optimize energy consumption, and minimize CO_2 emissions across managed buildings..

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Precise energy monitoring



Solution:

Using a **Cloud Lift license**, the customer adds a Connect Box device in each building and integrates building devices. Stored data on Connect Box is integrated to Building X via MQTT thanks to the 4G connectivity, facilitating tools and applications like: Energy Manager, Operations Manager, Environmental and Air Quality app, and Occupancy app. Combining the integration flexibility and data delivery of Connect Box, with the powerful energy applications of Building X, the customer maintains compliance and reduces energy usage.

Connect Box benefits:

Real-Time Asset Monitoring: Enables live tracking of energy consumption and emissions, facilitating immediate adjustments.

Automated Reporting: Streamlines compliance reporting, saving time and reducing the risk of human error.

Predictive Analytics: Anticipates future energy trends and compliance issues, allowing proactive management actions.

User-Friendly Interface: Simplifies the management of complex data, making it accessible and actionable for facility managers.

Compliance Assurance: Demonstrates commitment to energy compliance and environmental responsibility, potentially attracting eco-conscious tenants or partners.

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Use Case 3: Business monitoring, efficiency and opportunities.

Improve operational efficiency and customer satisfaction through real-time data

A globally recognized restaurant chain faces challenges in operational efficiency and quality maintenance across locations. Implementing Siemens Connect Box can revolutionize asset monitoring, data management and HVAC optimization, enhancing operations and customer satisfaction.

Pain points

- Manual equipment checks are time-consuming and prone to error.
- Lack of real-time data leads to over or under-stocking of ingredients.
- Difficulty in predicting maintenance needs causes downtime.
- Inconsistent temperatures in refrigeration units lead to food spoilage.
- HVAC monitoring and optimization providing comfort to restaurant customers



Building owner

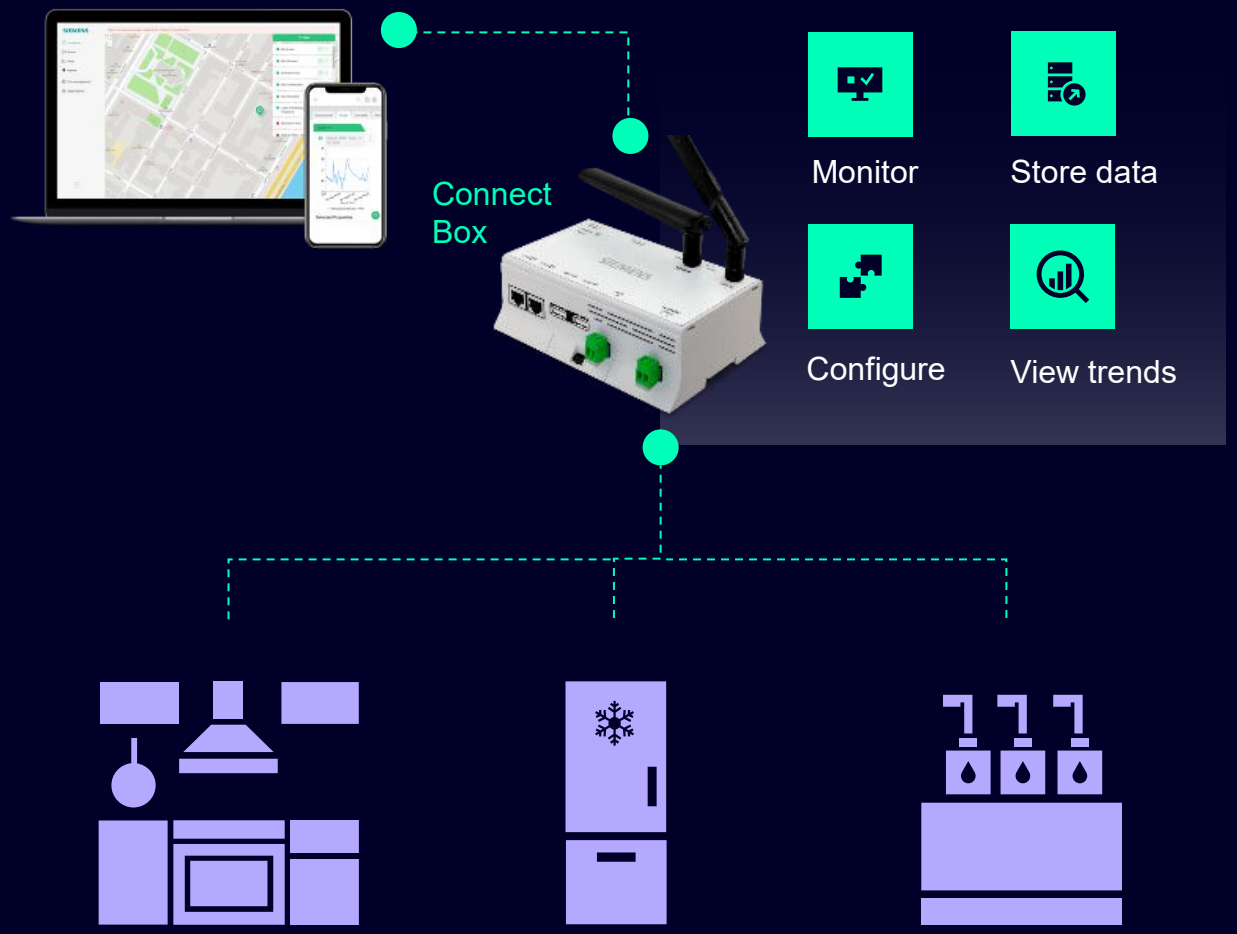
Motivation

Maximize operational efficiency, enhance customer experience, and drive profitability through intelligent asset monitoring and data-driven insights.

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Business opportunity



Solution:

Using a Connect Box paired with a **Cloud Control license**, the customer integrates all building devices and equipment. Through the Connect Box console, the customer can see real-time data on both building performance as well as kitchen asset management and stock levels. Using customizable dashboards, various data points can be trended and analyzed, leading to greater operational efficiency and costs savings in both HVAC and kitchen spaces. Thanks to scheduling and automation scenarios, HVAC equipment can be optimized for restaurant patrons' comfort. For additional flexibility and utility, the customer can send data to additional 3rd party applications using APIs.

Benefits:

Real-Time Asset Monitoring: Connect Box provides real-time data on kitchen appliances, ensuring optimal temperature and stock levels.

Data-driven decision making: Informed decisions about kitchen operations, from equipment investment to optimizing serving processes, can be made through data collection allowing a move from a reactive to a predictive maintenance model.

Inventory Management Optimization: Automation of inventory tracking predicts stock needs accurately, reducing waste and ensuring availability of popular items.

Enhanced Customer Experience and Brand Reputation: Consistently fresh food and well-stocked service items lead to a high-quality customer experience.

Competitive Edge Business Advantage: Streamlined operations through automated data collection set the restaurant chain apart from competitors, ensuring exceptional service and sustained competitive advantage.

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Energy and comfort optimized

LoRaWAN Sensors enable temperature monitoring and control, fostering a comfortable environment, enhancing energy efficiency, and well-being.

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Monitor the classroom's indoor air quality and ensure safe & healthy learning environments

Existing building

- Modern research shows that indoor environmental quality directly impacts student learning outcomes, health, and cognitive performance.
- Recognizing this, schools can now leverage monitoring systems to create ideal classroom conditions.



Solution

- The transition to smart monitoring is seamless with wireless LoRaWAN sensors that run on long-lasting batteries or solar power.
- These sensors can be installed quickly without disrupting school operations or requiring major infrastructure changes.
- The monitoring system tracks key environmental factors:
  - Indoor air quality (CO2, PM2.5, and VOC)
  - Temperature and humidity



Operational flow

- During school hours, sensors continuously monitor classroom conditions according to customized schedule and comfort settings
- Data is transmitted to the Connect Box that:
  - Provides real-time status
  - Issues immediate alerts when conditions fall outside optimal ranges
  - Generates detailed monthly reports on air quality and energy usage.
- Enables data-driven facility management decisions and demonstrates the school's commitment to student wellbeing.



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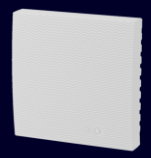
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Create optimal indoor environments through smart monitoring

IAQ Sensors with proven and reliable LoRaWAN technology and direct integration with Connect Box.



T/H LoRaWAN	• Temperature, humidity • Battery powered (up to 10 years)



T/H/CO2 LoRaWAN	• Temperature, humidity, CO2 • RGB LED (Traffic Light) • Acoustic Buzzer • Battery powered (up to 10 years)



T/H/CO2 Display Eco LoRaWAN	• Temperature, humidity, CO2, Light • 1.54'' e-ink screen (current level and historical trends) • Solar-powered Lithium-ion capacitor



IAQ Multi Sensor	• Temperature, humidity, CO2, PM2.5, VOC, light, noise • Segment display (Score and individual parameters) • RGB LED • RESET Certified • USB Type C 5V, AC/DC 12...24V • PoE



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