

BUILDING AUTOMATION AT THE EDGE WITH LoRaWAN® AND SMARTSERVER™ IOT

Easily integrate LoRaWAN with BMS for smart and sustainable buildings



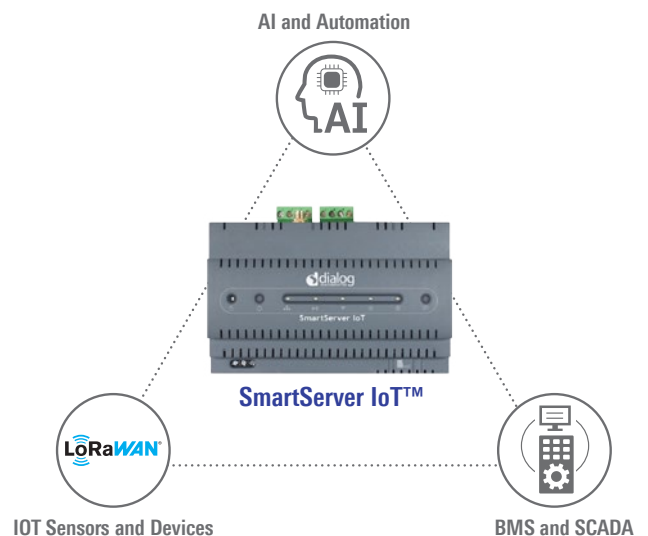
Smart Buildings with LoRaWAN®

As a systems integrator, you can significantly increase value for customers by extending LoRaWAN solutions into building automation. With native integration into an existing building management system, your customers can turn data from LoRaWAN sensors into insights and real actions that improve space and asset utilization, increase occupant safety, and meet ESG and Net Zero targets.

With SmartServer IoT, an open, easy to use and freely customizable edge server, you can make this vision a reality without the headaches that often accompany complex industrial integration projects. For the first time, you can easily integrate LoRaWAN solutions with BMS, making data accessible for automation and controls as well as AI and cloud analytics. The end result is immediately reduced costs and up-to-date Smart Buildings.

Industry Leading Security

With SmartServer IoT, you don't need to worry about network security. By default, SmartServer IoT uses the latest TLS and secure MQTT / HTTP across all services and clients. It also supports LoRaWAN Security, ensuring end-to-end data protection.

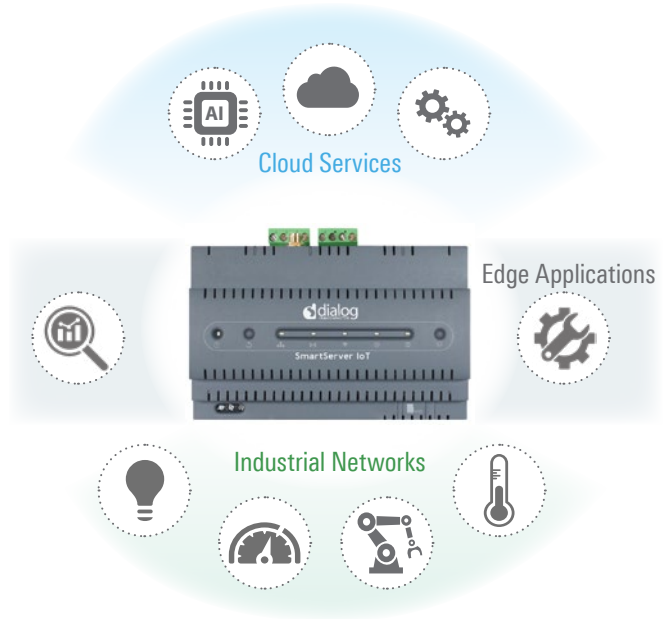


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Not just Another LoRaWAN Gateway

Through an IoT data fabric enabled by Renesas' open IoT Access Protocol (IAP), SmartServer IoT seamlessly and securely connects any sensor, device or machine to its peers and to enterprise, edge and cloud computing infrastructure – all without any custom coding or development.

SmartServer IoT offers unprecedented visibility and control of your entire universe of devices and systems, with features and tools that ensure you can confidently and successfully navigate complex integration challenges.



Focus on Your Value

With SmartServer IoT, you can focus on delivering valuable solutions, not on tedious deployment and integration tasks. Take advantage of the open, extensible device and data integration platform to quickly deliver complex IoT projects and build limitless applications and services. Amplify the benefits of LoRaWAN and other operational systems, reduce your engineering resources and accelerate the digital transformation across buildings, campuses and cities.

"Our powerful LoRaWAN multi-sensors make it easy to understand how buildings and space are used. Exposing that sensor data to a BMS through SmartServer IoT gives customers finer-grained control of their buildings, enabling them to take meaningful actions that can have a measurable impact. The combination of LoRaWAN and SmartServer IoT unlocks an enormous number of exciting new use cases."

– Mark Sorsa-Leslie, MBA MRICS – Co-Founder and CEO, Beringar

Buildings and Retail Applications

SmartServer IoT is designed for a broad range of factory, industrial, smart grid, energy and other systems. In the buildings and retail sectors, SmartServer IoT facilitates:



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Open, Extensible Edge Architecture

SmartServer IoT is an industrial-grade hardware platform with a complete software stack from device to cloud.

With SmartServer IoT, you get:



Simplified Integration

Easy to use and freely available central management system (CMS) with a suite of widgets to plan, create, provision, operate and maintain building and IoT networks.



Limitless Edge Applications

Open APIs to create unlimited applications including web service optimized APIs to unleash data access and enable best of breed analytics and cloud solutions.



A Complete Solution

A proven, end-to-end platform with built-in drivers and interfaces to building automation and industrial control systems.



LoRaWAN System Integration

Reference LoRaWAN driver and technical guidelines for LoRaWAN system integration.



Easy Customization

No-/low-code programming tools to customize sequences of operation and create automation workflows.



Open Interfaces and Interoperable Ecosystem

A foundation based on open hardware and software standards to avoid vendor lock-in and ensure your data belongs to you.

Getting Started

Systems integration is challenging enough without getting charged for every datapoint. Our simple business model stays the same regardless of the datapoints you are monitoring, controlling and analyzing. SmartServer IoT is also easy to integrate, install and deploy. You can get the SmartServer IoT up and running in just a few hours. Our intuitive browser-based CMS and flexible tools minimize deployment time and help you succeed even when project specifications evolve.

We Know Buildings and IoT

For more than 30 years, Renesas' Industrial Edge Computing team has worked with building and industrial customers to make their solutions smarter. SmartServer IoT is the latest-generation industrial edge server family from Renesas, which has hundreds of thousands of successful deployments to-date.

As a contributor member of the LoRa Alliance®, Renesas contributes to standardization and promotion activities of LoRaWAN®.

Contact us to learn more:  edge.info@diasemi.com

 dialog-semiconductor.com/products/industrial-edge-computing



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