

RX Cloud Solution - Simplifies IoT Development on AWS

RX65N CLOUD KIT

Overview

The cloud-based services have become essential to efficiently process the enormous data volume involved. To reduce the barriers to development, the RX65N Cloud Kit is an all-in-one evaluation kit enabling customers to easily build and evaluate cloud-based communication environments, allowing even customers with little experience to start development of the IoT devices without any delay.



Features

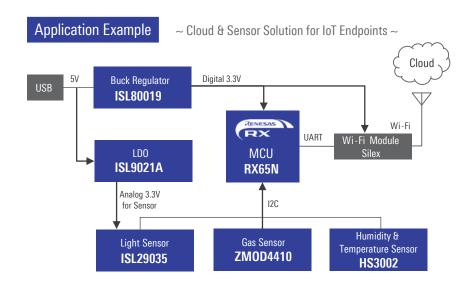
- FreeRTOS[™] qualified
- Easy connection to AWS Cloud using MQTT, TLS, TCP/IP protocol
- Send three types of sensor data (temperature/humidity, brightness and three-axis accelerometer) to the AWS cloud and view a graphical display on Renesas Dashboard*
- Wireless communication using Silex Wi-Fi module
- OTA features under development (Q4'20)
- * Renesas Dashboard: A Renesas system allowing users to view data sent to the cloud in graphical format on a web browser.

Benefits

- Safe and secure connection to AWS Cloud
- Connect various applications to the Cloud immediately
- Provide application notes and sample programs to assist in IoT device prototyping
- Shorten development time with available sample program and software library
- Easy development environment with e² Studio IDE
- Code generator features
- Import of FreeRTOS integration
- Compliant to radio law in FCC (US), CE (Europe), TELEC (Japan)

Target Applications

- Industrial Automation
- Building Automation
- Smart Home
- IoT Cloud (Internet of Things)
- Smart Meter
- Office Automation

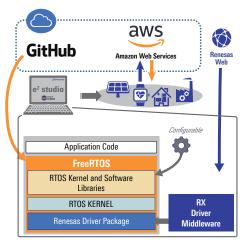




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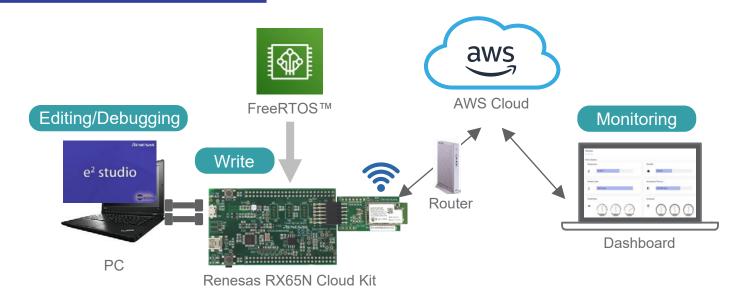
Development Tools and Support

Development Tools	Benefits
IDE –	■ Automatically generates FreeRTOS [™] source code
e ² Studio (v7.5.0 and later)	■ Generate and build the latest FreeRTOS [™] sample projects from GitHub
	■ Provides required drivers, network stacks (TCP/IP, Wi-Fi®, MQTT), and component libraries assist setting (Device Shadow)
	 Add and implement middleware and drivers (USB and file systems) easily on IoT devices



Integrated development environment e2 studio

Development Environment and System Block



Orderable Part Numbers

Product Name	Compliance	Orderable Part Number
RX65N Cloud Kit	CE, TELEC	RTK5RX65N0S00000BE
(Europe, Japan)		
RX65N Cloud Kit	FCC	RTK5RX65N0S01000BE
(North America)		

For more information, visit us at www.renesas.com/rx65n-cloud





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