Part Number: YSAECLOUD2

Description: Synergy Cloud Conn Kit

LTE IoT includes the very latest cellular technologies Cat-M1 and Cat-NB1 (NB-IOT), both are ideal for connecting IoT devices and sensors to 4G LTE cellular networks globally. AE-CLOUD2 enables connection of those IoT devices to cloud service providers with minimum effort.

Kit Contents

- S5D9 MCU Board
- 802.11 b/g/n Wi-Fi Board
- LTE CAT M1 and NB1 Cellular Arduino Shield
- Cellular Antenna
- GPS Antenna
- 1 Ethernet cable
- 2 x A male to Micro B 1 ft USB cables

System Requirements

- AE-CLOUD2 can be used with the Synergy Enterprise Cloud Toolbox Demo or the Medium One IoT Prototyping Sandbox.

Features

The Renesas Synergy™ AE-CLOUD2 enables rapid evaluation, prototyping and development of global LTE IoT cloud connected applications using the Synergy Platform. Using the AE-CLOUD2 kit developers can easily connect IoT sensor devices to major cloud services globally using the most effective cellular IoT protocols today — Cat-M1 and Cat-NB1. It features the S5D9 MCU Group, the superset of the S5 MCU series. AE-CLOUD2 includes a variety of sensors such as lighting, microphone, temperature, humidity, pressure, air quality, geomagnetic, accelerometer, and gyroscope.

LTE IoT Cellular Technologies

AE-CLOUD2 can be used anywhere in the world as it has support for Cat-M1, Cat-NB1, 2G/EGPRS, as well as GPS. The kit complies with global regulatory certifications for FCC, CE, RoHS, WEEE and Japan MIC. The AE-CLOUD2 kit has been designed to work with CAT-M and NB-IoT Networks. Users should check that these networks are supported by cellular providers in their region and have the ability to configure the modem to establish a connection to an available regional network through a local cellular provider.

Cloud Services

The AE-CLOUD2 kit can be used to connect to any cloud provider. To get started in 10 minutes or less, the Synergy Enterprise Cloud Toolbox Demo provides a quick and easy way to connect to cloud services from Amazon Web Services, Microsoft Azure, or Google Cloud Platform. After using the demo, the Renesas Cloud Application Projects (see links below) can be used to transition projects to active development.
For those wanting to get started right away with a cellular IoT design, the Medium One IoT Prototyping Sandbox provides a quick way to get any IoT prototyping project started immediatelly. After prototyping is completed, designs can be easily moved to the Medium One production environment.