Renesas RX Family

CK-RX65N v1

Contents

1. Introduction

The CK-RX65N, Cloud Kit for RX65N MCU Group provides a broad array of sensors providing multiple options for observing user interaction with the Cloud Kit listed as follows:

- Renesas HS3001 Humidity and Temperature sensor
- Renesas ZMOD4510 Outdoor Air Quality Index sensor
- Renesas ZMOD4410 Indoor Air Quality Index sensor
- Renesas OB1203 Biometric sensor
- TDK ICM-20948 IMU (Gyroscope, Magnetometer, Accelerometer)
- TDK ICP-10101 Barometric Pressure sensor
- Knowles SPH0645LM4H-B MEMS Microphones in stereo configuration

2. ICM-20948 9-AXIS MEMS Motion Tracking Sensor Limitation

The 9-AXIS MEMS Motion Tracking Sensor U7 (TDK ICM-20948) is not fitted on this CK-RX65N board due to shortages in component availability.
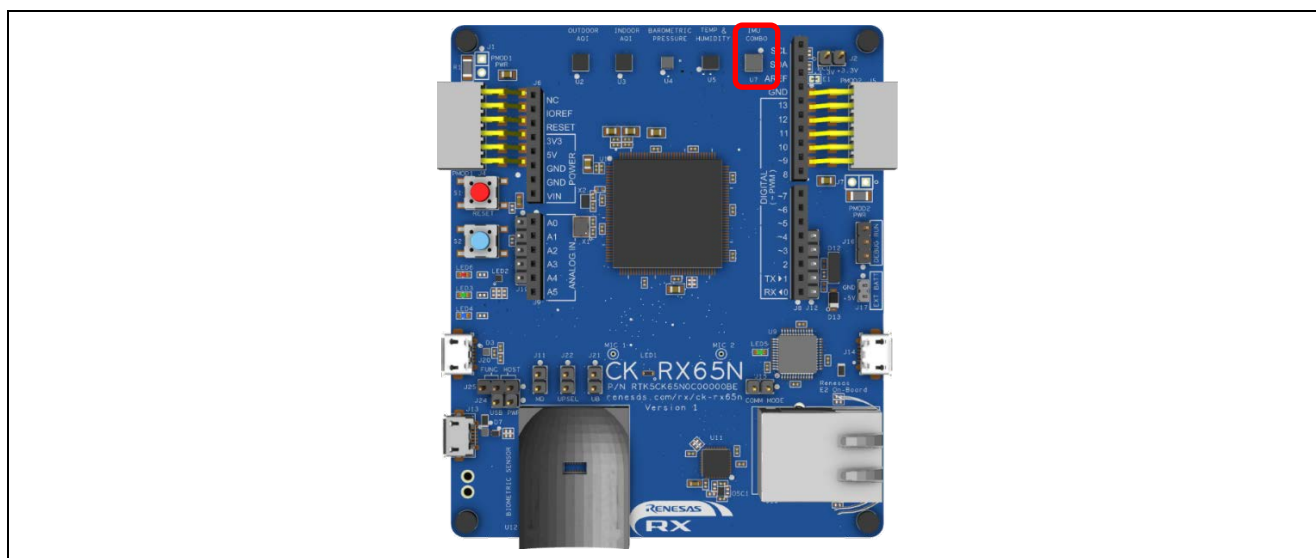

Figure 1.   CK-RX65N Board showing the 9-AXIS MEMS Motion Tracking Sensor U7 Location

3. ZMOD4510 Outdoor Air Quality Sensor Values

The Outdoor Air Quality Sensor U2 (ZMOD4510) reports inaccurate readings when running the pre-programmed application software. These readings are for indication only. Please refer to our website at renesas.com/rx/ck-rx65n for updates to the Quick Start Example Program which can be downloaded and programmed onto the board to improve sensor reading accuracy.

Figure 2.   CK-RX65N Board showing the Outdoor Air Quality Sensor U2 Location

4. ZMOD4410 Indoor Air Quality Sensor Values

The Indoor Air Quality Sensor U3 (ZMOD4410) reports inaccurate readings when running the pre-programmed application software. These readings are for indication only. Please refer to our website at renesas.com/rx/ck-rx65n for updates to the Quick Start Example Program which can be downloaded and programmed onto the board to improve sensor reading accuracy.
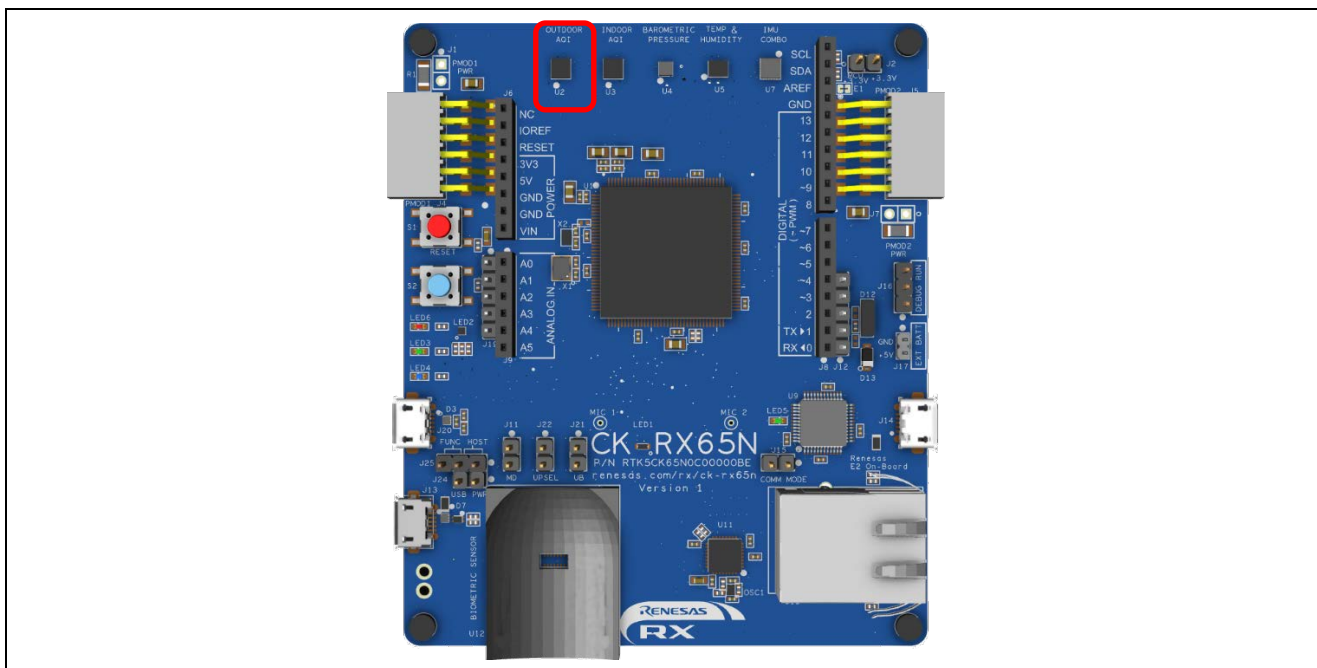

Figure 3.   CK-RX65N Board showing the Indoor Air Quality Sensor U3 Location

5. OB1203 Biometric Sensor Values

The Biometric Sensor U12 (OB1203) reports inaccurate readings when running the pre-programmed application software. These readings are for indication only. Please refer to our website at renesas.com/rx/ck-rx65n for updates to the Quick Start Example Program which can be downloaded and programmed onto the board to improve sensor reading accuracy.
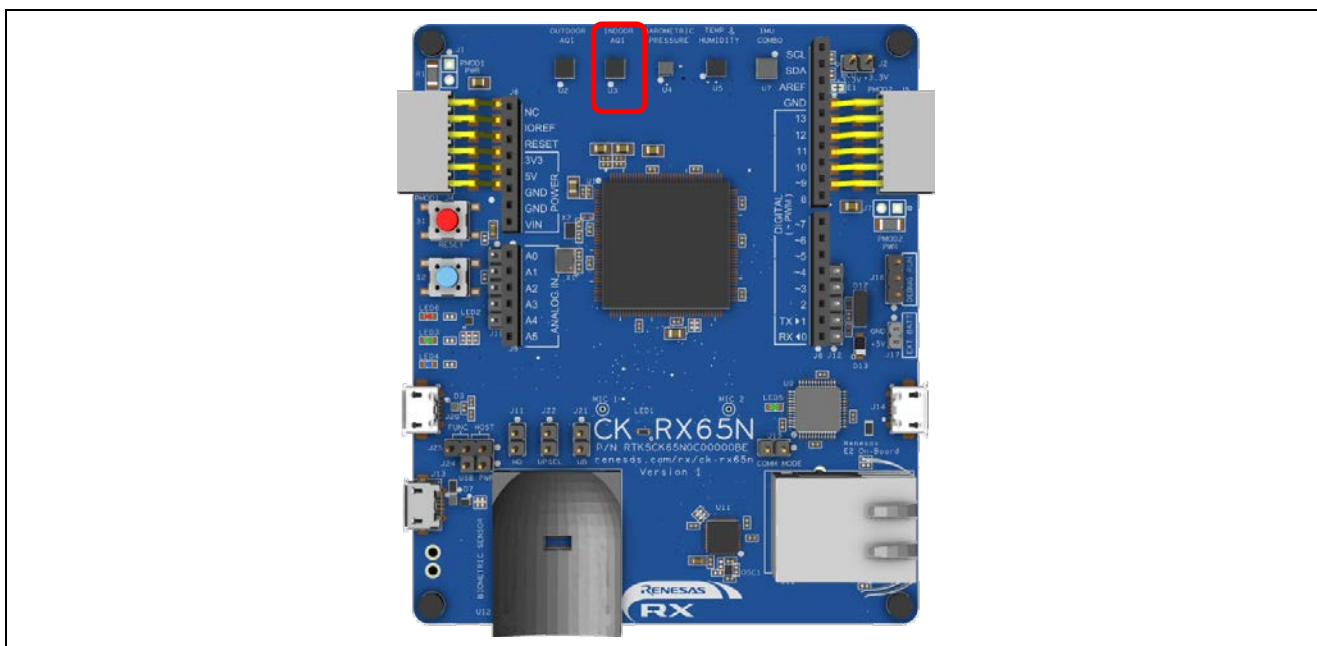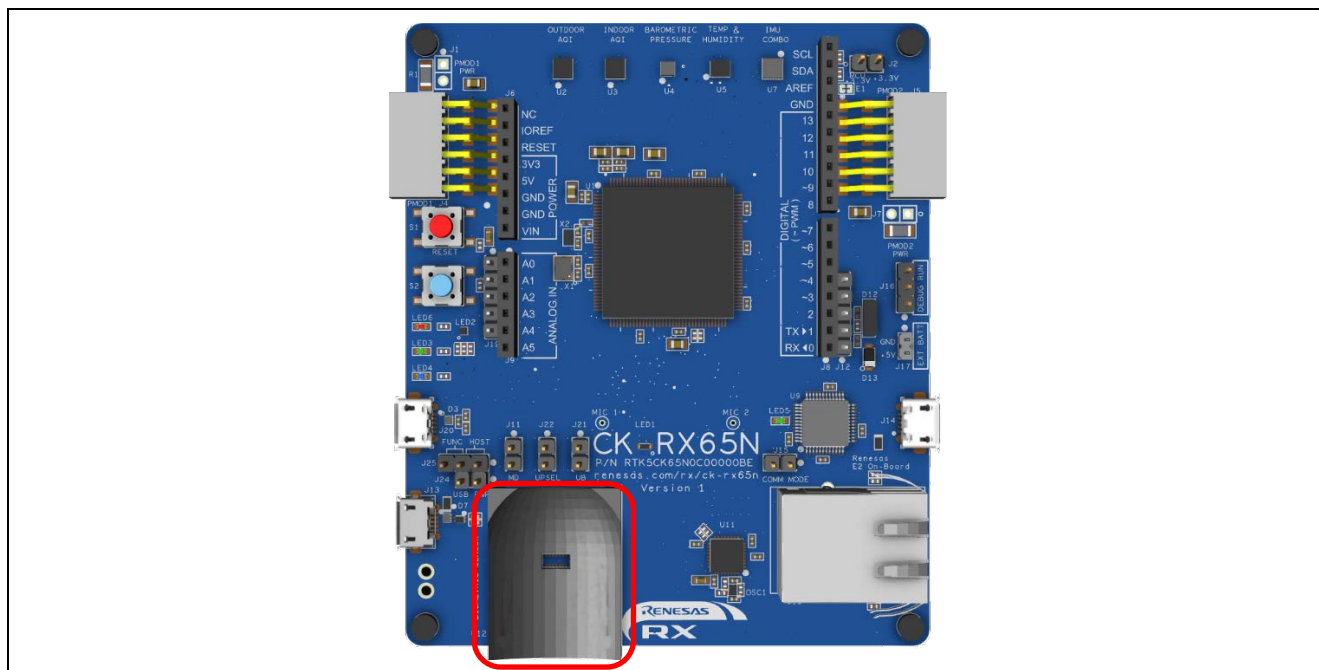

Figure 4.   CK-RX65N Board showing the Biometric Sensor U12 Location

6. Website and Support

Visit the following URLs to learn about the kit and the RX family of microcontrollers, download tools and documentation, and get support.

CK-RX65N Resources	renesas.com/rx/ck-rx65n
RX Product Information	renesas.com/rx
RX Cloud Connectivity Solutions	renesas.com/rx-cloud
RX Product Support Forum	renesas.com/rx/forum
Renesas Support	renesas.com/support

Revision History

Rev.	Date	Description	
		Page	Summary
Rev.2.00	Jun.10.22	All	Initial release