

RYZ014A Evaluation Kit RYZ014AAA

User's Manual

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The product generates, uses, and can radiate radio frequency energy and may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation. If this equipment causes harmful interference to radio or television reception, which can be determined by turning the equipment off or on, you are encouraged to try to correct the interference by one or more of the following measures:

- Ensure attached cables do not lie across the equipment.
- · Reorient the receiving antenna.
- Increase the distance between the equipment and the receiver.
- · Connect the equipment into an outlet on a circuit different from that which the receiver is connected.
- · Power down the equipment when not in use.
- Consult the dealer or an experienced radio/TV technician for help.

Note: It is recommended that wherever possible shielded interface cables are used.

The product is potentially susceptible to certain EMC phenomena. To mitigate against them it is recommended that the following measures be undertaken:

- The user is advised that mobile phones should not be used within 10 m of the product when in use.
- The user is advised to take ESD precautions when handling the equipment.

The Renesas Synergy™ Development Kit does not represent an ideal reference design for an end product and does not fulfill the regulatory standards for an end product.



RYZ014AAA

RYZ014A Evaluation Kit

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1. Getting Started

1.1 Evaluation Kit Contents

The contents of the Evaluation Kit are:

- One RYZ014AAA board
- One Raspberry Pi Zero W
- One Micro USB to USB cable
- One Micro USB to USB converter
- One power cable
- One HDMI mini to HDMI adapter
- One SIM Card Micro SD

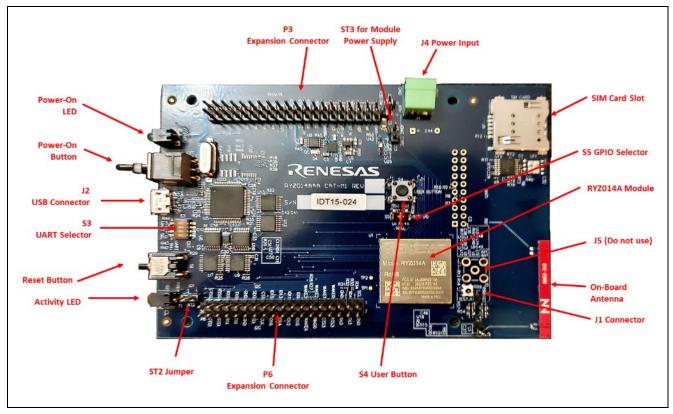


Figure 1. RYZ014AAA Board

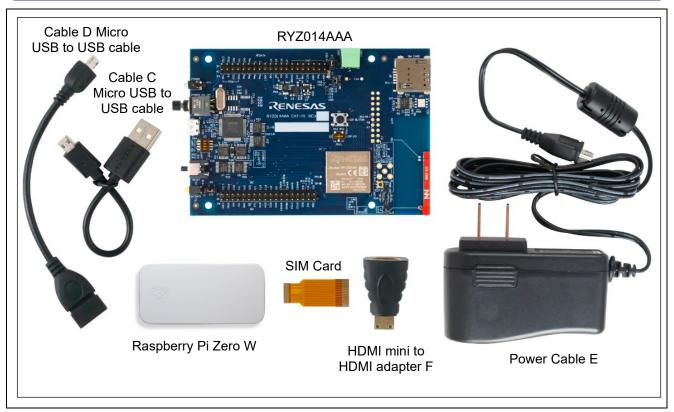


Figure 2. RYZ014AAA Kit Contents

1.2 Prepare RYZ014AAA Evaluation Kit

1. Plug cable C into port A1

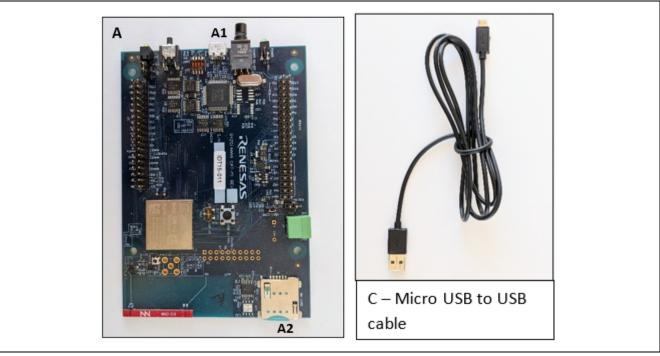


Figure 3. Cable C to Port A1

2. Plug cable C (USB) into converter D (USB)

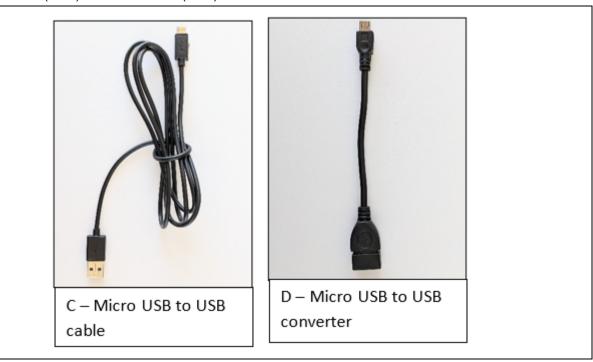


Figure 4. Cable C to Converter D

3. Plug adapter D (microUSB) into port B2

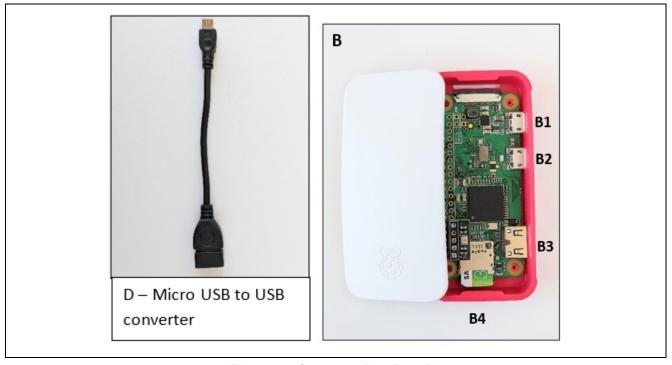


Figure 5. Converter D to Port B2

4. Insert μSD Card G into port A2

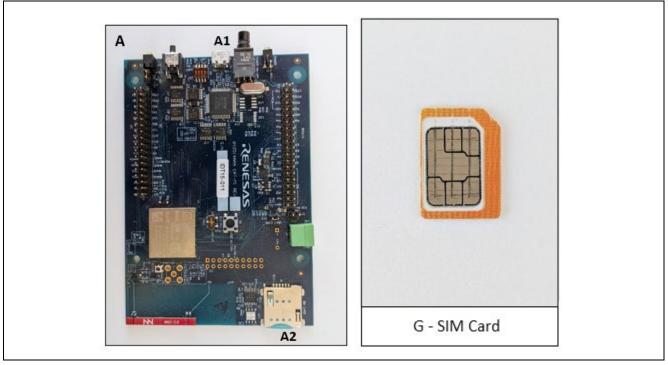


Figure 6. SIM Card to Port A2

5. Plug Power Cable E into port B1 (microUSB)

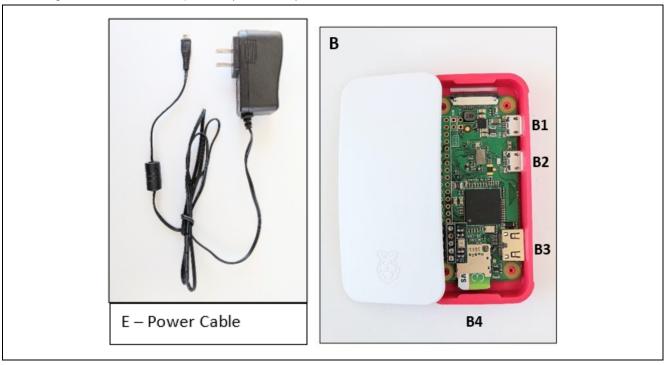


Figure 7. Power Cable to Port B1

- 6. Plug Power Cable into power
- 7. Using HDMI converter F is optional as the EVK can run headless



Figure 8. HDMI Adapter

8. Power on the device via the large power button on the CATM module if the LED is not green

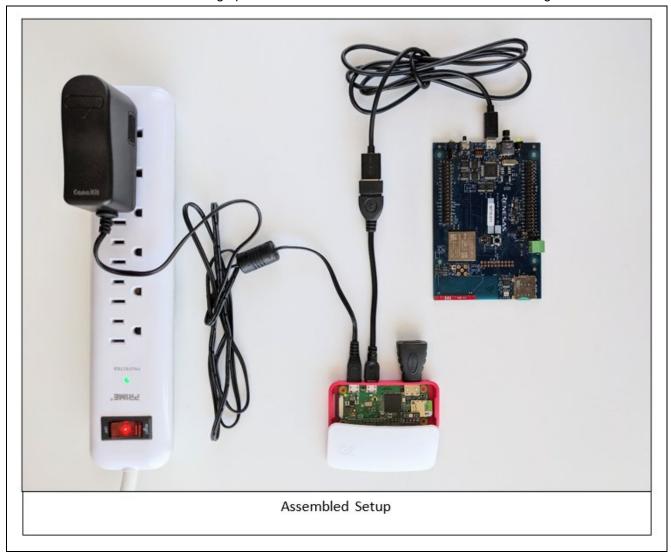


Figure 9. Assembled Setup

1.3 Install the Drivers

When plugging the USB cable in your PC first time, you need to wait for approximately one minute to allow the drivers auto-install on Windows.

The USB is used to power the board. It also connects the on-board UART-USB Bridge IC (FTDIc FT4232HL) to provide ACM interfaces (virtual COM) in order to access the board through UART.

If, for some reasons, the driver fails to auto-install on Windows, please install it manually from www.ftdichip.com, where you can find the FTDI driver labelled UART/USB. After the driver installation, please unplug the RYZ014AAA Evolution Kit and reboot your PC.

After completing the driver's installation, whenever you plug the USB cable, devices are listed in device manager as shown on Figure 10.

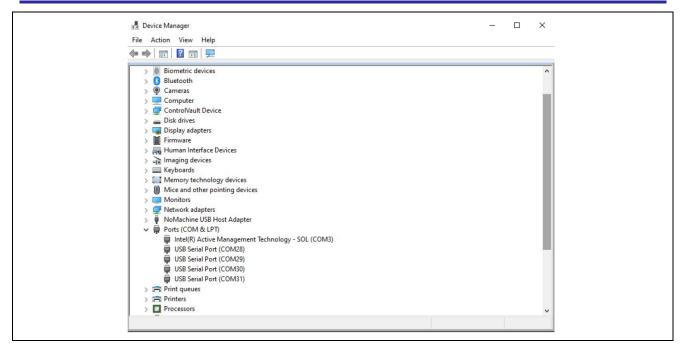


Figure 10. Device Manager Window

1.4 Set the COM Ports

The table below summarizes the COM ports under Windows and the corresponding configuration to the RYZ014AAA Evaluation Kit.

Table 1. COM Ports Setting

Port Enum ¹	Mapping Usage		Baudrate	Data Bits	Flow Control	Parity	Stop Bit
COMa	UART0	AT Commands	921600	8	Hardware	None	1
COMb	UART1	Console	115200	8	None	None	1
COMc	UART2	Debug	921600	8	Hardware	None	1

Note: 1. In the example of this document, COMa is COM28, COMb is COM29 and COMc is COM30.

Caution: COM ports cannot be shared between two different applications in the same time. One of the applications will be in error in such configuration.

In order to send AT Commands to the RYZ014AAA Evaluation Kit, please use a Serial Terminal program under Windows such as TeraTerm freeware.

- 1. To send an AT command to the kit, you need to connect your Serial Terminal to the UART 0 port, corresponding to COMa on Windows enumeration, please refer to the above Table to determine the exact COM port on your PC.
- 2. Under Setup, Serial Port, choose the right configuration according to the above Table.
- 3. Once the correct setting is done, you should be able to start sending AT Commands and receiving their corresponding output.

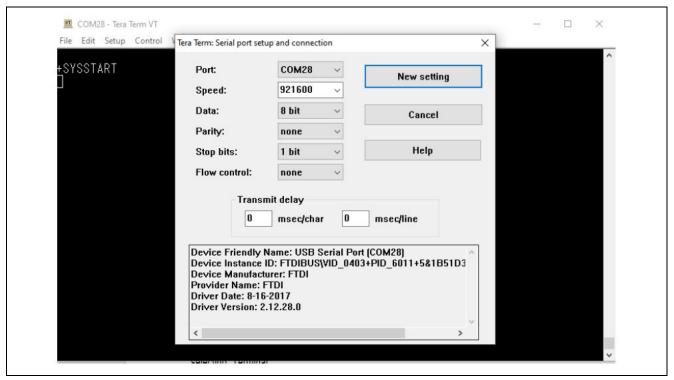


Figure 11. COM28 (COMa) Setting In Progress

1.5 Activate the SIM Card

A user account needs to be created to activate the SIM.

Step 1: Access URL https://renesas.micro.ai/register

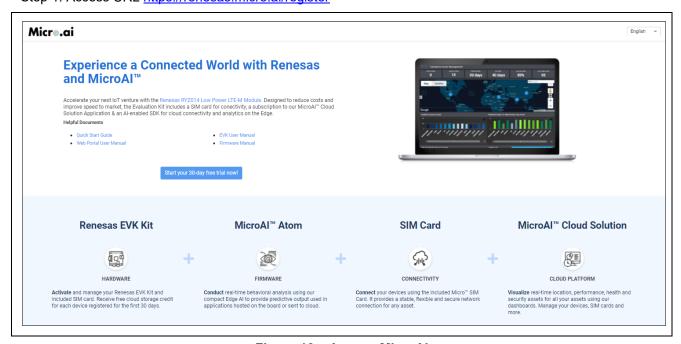


Figure 12. Access MicroAl

Step 2: Click Start 30-day trial and enter user details.

Step 3: Enter individual or company details.

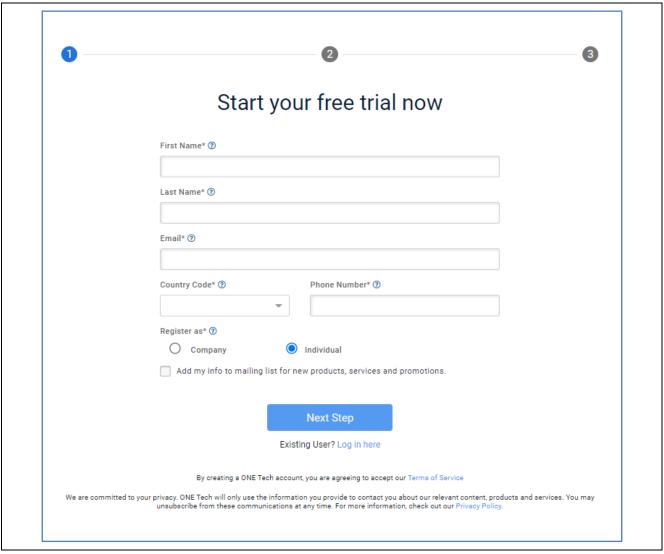


Figure 13. Register as Company or Individual

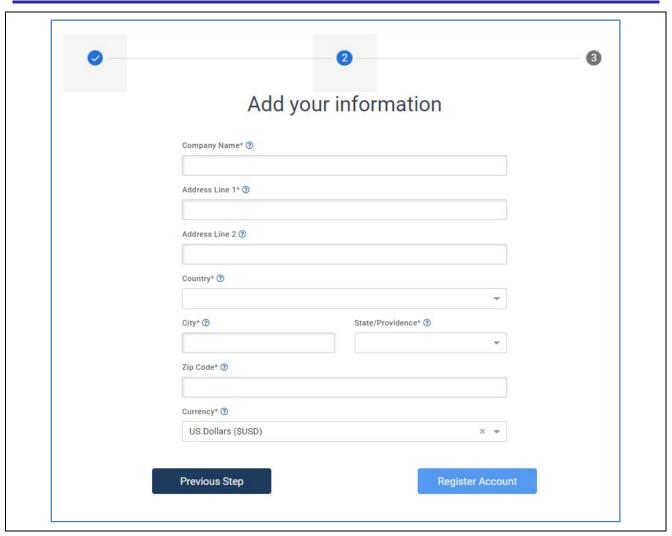


Figure 14. Enter Information

Step 4: Access your email for the verification code and click validate button to create password

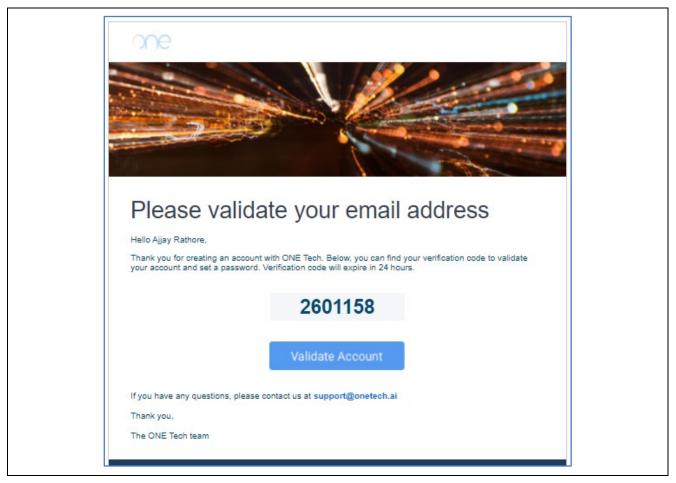


Figure 15. Validate Email Address

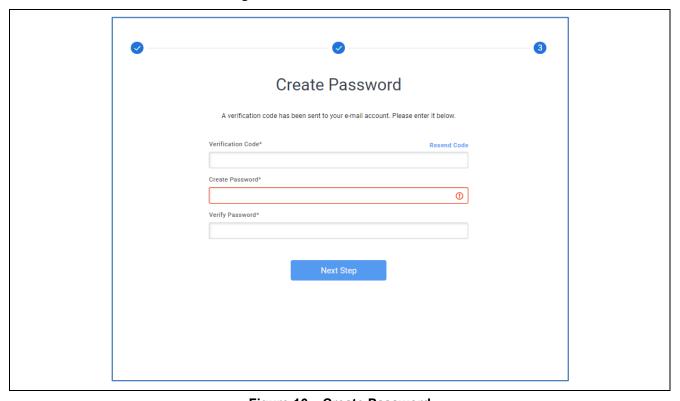


Figure 16. Create Password

Step 5: Access Homepage

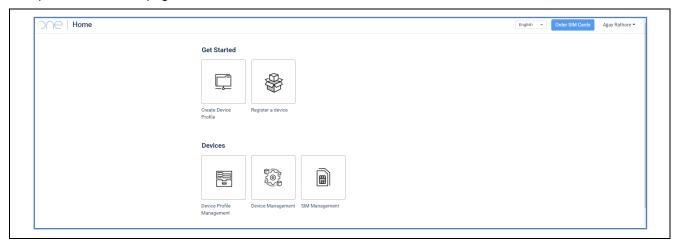


Figure 17. Access Homepage

Step 7: Click on Create Device Profile application tile

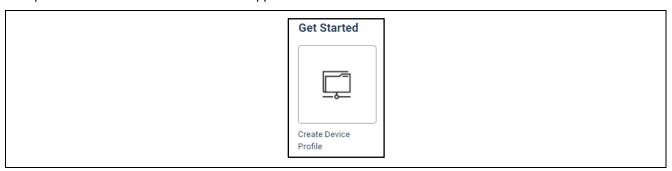


Figure 18. Create Device Profile

Step 8: Verify prefilled information and click next

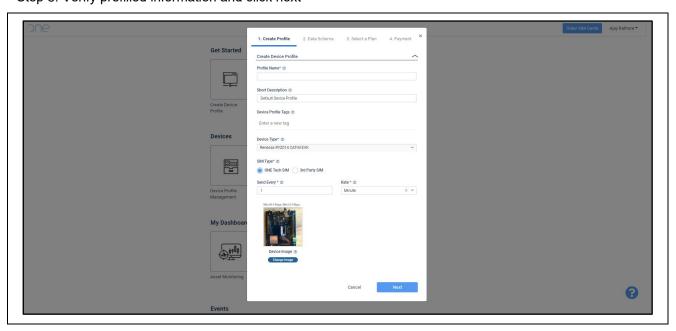


Figure 19. Verify Information

Step 9: Verify the sensors that will be configured on the device

Note: The kit comes with a schema (Temperature and Humidity) preinstalled on the device.

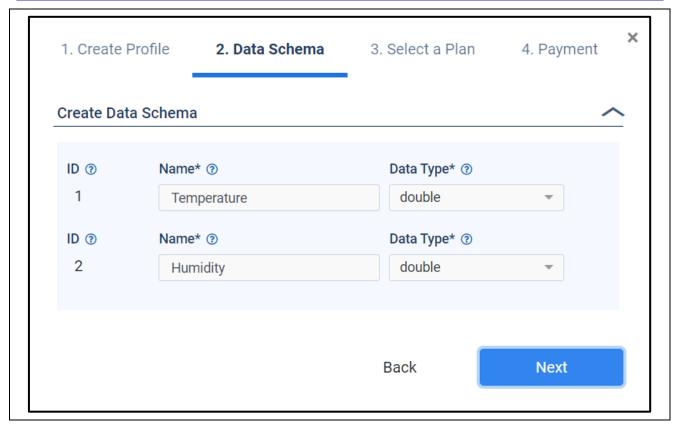


Figure 20. Preinstalled Schemas

Step 10: Select a payment plan

Note: The first 30 days are free. Once you register the EVK using mobile app, you will get a \$5.99 credit in your wallet

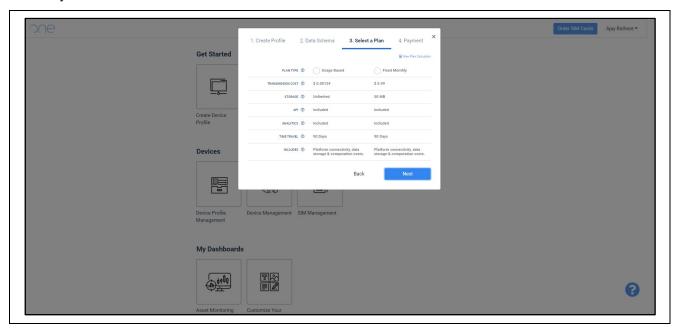


Figure 21. Select Payment Plan

Step 11: Add or select a payment method and click on finish

- Add credit card
- Add billing address

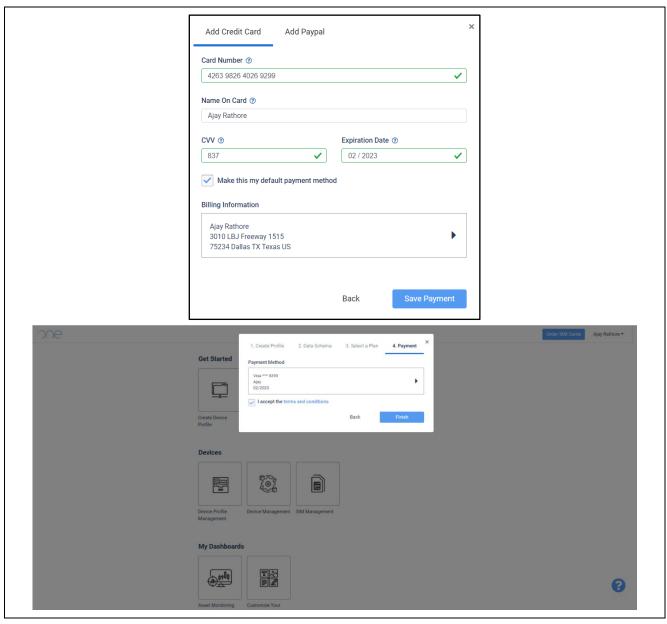


Figure 22. Add Credit Card and Billing Information

Step 12: Download the mobile app

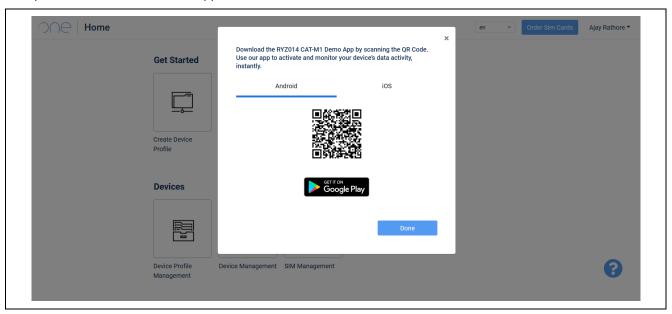


Figure 23. Mobile App

- IOS:
 - App Name: ONE Device
 - App Store Link: https://apps.apple.com/us/app/one-device/id1558929605
 - QR Code:



Figure 24. IOS App QR Code

- Android:
 - App Name: ONE Connect
 - Play Store Link: https://play.google.com/store/apps/details?id=com.renesas_ryz014a.ble
 - QR Code:





Figure 25. Android App QR Code

- Step 13: Open the mobile app
- Step 14: Select device from the list
- Step 15: Drag down the list if you don't see your device
- Note: The drag down functionality is only needed on Android. The iOS version does this automatically
- Step 16: Click on your device and click on Activate Device
- Step 17: Enter the MicroAl credentials you created on web portal
- Step 18: Click Get Device Configuration
- Step 19: Select device profile you created on web portal
- Step 20: Click on Activate Device
- Step 21: The app automatically takes you to monitor device screen

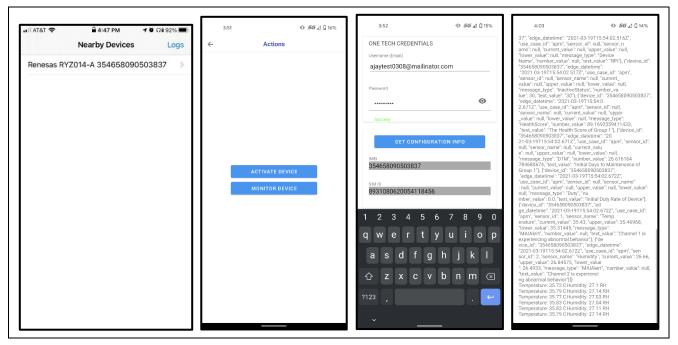


Figure 26. Activate Device in App

1.6 Configure Supported Operators

Note: The SIM card will be read when the UE is in +CFUN=1 or +CFUN=4 states. When the SIM card is read for the first time, the modem will be reconfigured automatically and will reboot.

RYZ014AAA is provided with a SIM card. In order to check the supported operators, please refer to this link

The modem can support up to 17 LTE bands. Scanning all the bands takes several minutes. In order to reduce the scanning duration, it is possible to configure the list of bands that need to be scanned with the AT+SQNBANDSEL command. Please refer to the AT Commands Reference Manual or the Use Cases with AT Commands documents for more details.

1.7 Connect to LTE Network

Important: All actions described in this section apply when you have access to an LTE network or simulator.

- 1. Press the POWER button of the RYZ014AAA host board and check the COM port enumeration in Windows Device Manager.
- 2. Open a Teraterm session on the AT command UART (UART0) COM port. The baud rate is 921600.
- 3. Configure the bands to be scanned:
 - AT+SQNBANDSEL=0,"standard","bands to be scanned" AT+SQNCTM?
 - Check that this returns "standard". Otherwise, change it to standard operator mode with AT command AT+SQNCTM="standard". This command will trigger a reboot of the modem.

Note: Please note that these configurations are persistent at reboot and should be entered only once.

- 4. Enter AT command AT+CFUN=4 and check the SIM card interface state with AT+CPIN?. The response can be one of:
 - +CPIN: Ready: SIM card is present and unlocked
 - +CPIN: SIM PIN: Modem is waiting SIM PIN to be entered
 - +CPIN: SIM PUK: Modem is waiting SIM PUK to be given
 - ERROR, when SIM is not inserted or not detected
- 5. Control the presentation of an unsolicited result code by sending AT+CEREG=2. This command will allow getting notification every time there is a change of the network registration status.

6. Power on modem by sending AT command AT+CFUN=1. The response will be OK followed by +CEREG=<stat>.

Table 2. Status Codes

Value	Meaning	Comment
0	Modem is not registered and is not currently searching an operator to register to.	Possible cause: SIM card error or registration ongoing.
1	Modem is registered on network. Kit is connected.	
2	Modem is not registered but is currently trying to attach or is searching for an operator to register to.	Possible causes: No network available, available networks have bad coverage, PLMN available but the registration is rejected.
3	Registration denied.	Possible causes: Illegal mobile equipment IMSI unknown at HLR, PLMN not allowed, Location area not allowed, Roaming not allowed in this location area, Network failure, Network congestion.
4	Unknown.	Transitory value
5	Modem Registered in roaming mode	

7. End-to-end connectivity can be tested with the following AT command AT+PING="www.Renesas.com".

2. Hardware Description

2.1 Overview

The Top and Bottom Assembly views of the RYZ014AAA are represented in Figure 27 and Figure 28.



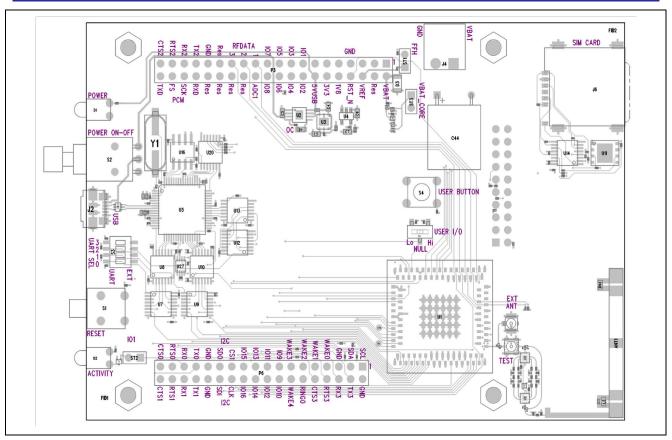


Figure 27. Top Assembly

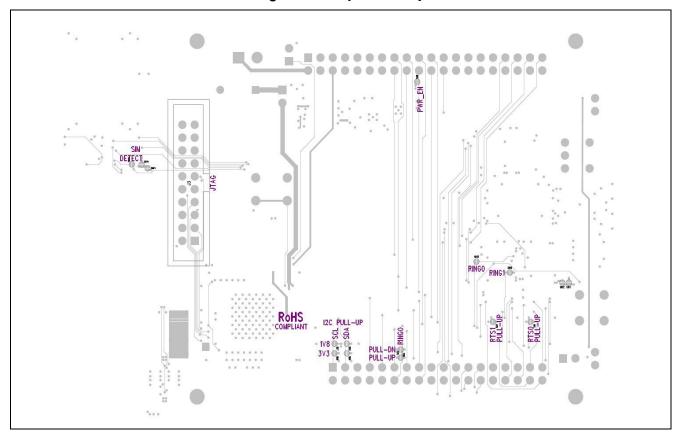


Figure 28. Bottom Assembly

2.2 Power Supplies

RYZ014AAA has two power domains:

- 1. One power domain for the entire auxiliary and debug circuitry (AUX).
- 2. One power domain for the LTE modem (CORE).

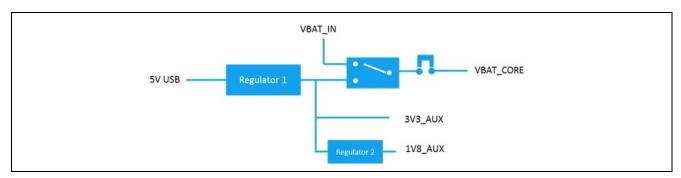


Figure 29. RYZ014AAA Power Supplies

The auxiliary power domain can only be powered via USB.

The LTE modem can be powered in three different ways: USB, VBAT IN, VBAT CORE.

USB

When USB is connected, and no other voltage is applied to the board, a regulator generates 3.3V_AUX which is used to power the LTE modem

VBAT IN

VBAT IN is available on J4 connector and on pin 2 on connector P3. VBAT IN must respect the voltage range defined by the module in RYZ014AAA board. When VBAT IN is above 1.6V, the module power VBAT CORE is automatically switched from the 3V3 AUX to the VBAT IN supply.

Note: When the LTE module is powered via VBAT IN, there is some extra leakage on the power supply circuitry itself as per Table 3. Therefore, it is not recommended to use this power supply when measuring the LTE module rock bottom current.

Table 3. Power Leakage if Power by VBAT_IN

٧	mA	mW
2.9	0.0194	0.05626
3.1	0.0191	0.05921
3.3	0.019	0.0627
3.8	0.0192	0.07296
4.5	0.0199	0.08955

See also Section 3.1, How to Connect an External Power Supply on page 27

VBAT CORE

The module VBAT CORE is available on ST3 jumper. By disconnecting ST3 jumper, the LTE module can be powered directly with an external supply. This setup is recommended when measuring the module's rock bottom.

See also Section 3.2, How to Connect a Series Current Meter on page 27.

2.3 Power-On and Reset

RYZ014AAA has two buttons to control power and reset:

- Reset push button (S1): resets the module when pressed.
- Power toggle button (S2): cuts USB power ON/OFF

2.4 USB Port and UART Switches

RYZ014AAA provides access to all the LTE modem UARTs via the USB connector.



Each individual UART can be redirected to the expansion connector via the S3 switch. When the switch is in the "UART" position the UARTs are redirected to the USB port:

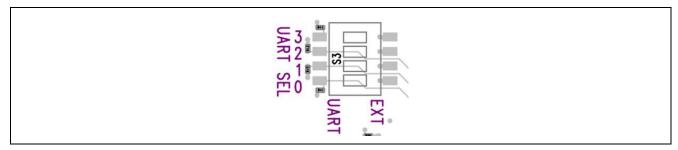


Figure 30. UART Switches

2.5 SIM Card

RYZ014AAA supports connectivity from an MFF2 SIM (U11) or from a SIM slot (J6). Both solutions connect to RYZ014A SIM0 interface. A multiplexer automatically selects between the embedded MFF2 SIM and the SIM slot as per :

- When a SIM card is plugged into the push-eject SIM slot (J6), this will be used to connect to the modem
- If a MFF2 SIM is soldered into U11 and the soldering bridge SB10 is configured as OPEN, then on the absence of SIM card in J6, the modem will default to use the SIM soldered into U11.

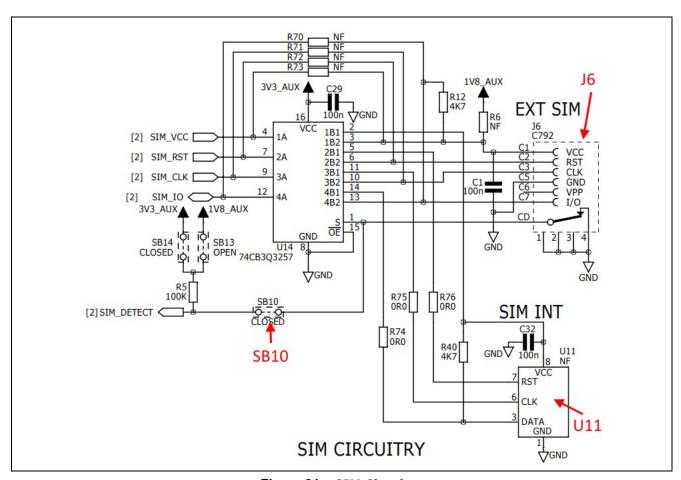


Figure 31. SIM Circuitry

2.6 LEDs

Two LEDs are present in the board:

- Power LED (D1): turns on whenever there is USB power
- Activity LED (D2): turns according to network activity if ST2 jumper is fitted and the ACTIVITY LED function is enabled on the module (with AT command AT+SQNLED, please refer to AT Commands Reference Manual for details.)

2.7 User Button and Switch

RYZ014AAA board provides a user button (S4) and a user switch (S5).

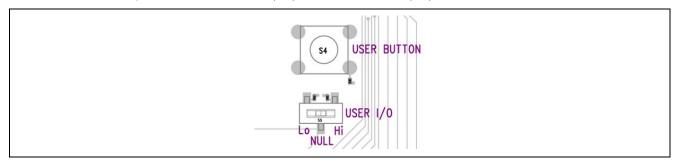


Figure 32. User Button and Switch

2.8 Expansion Connectors

The expansion connectors for RYZ014AAA boards are intended to:

Allow hardware designers to connect external peripherals for prototyping.

Two expansion connectors are available on RYZ014AAA board. They provide access to all the modem interfaces.

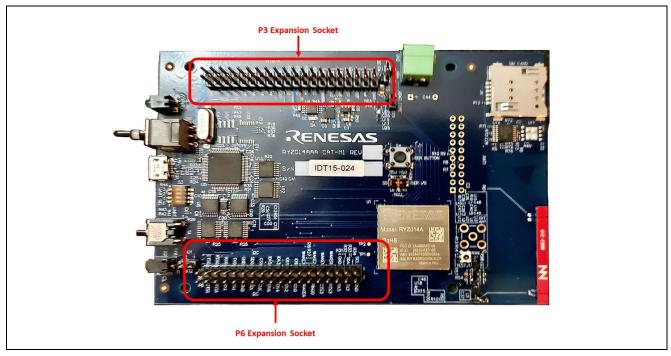


Figure 33. Expansion Connectors Location on RYZ014AAA Board

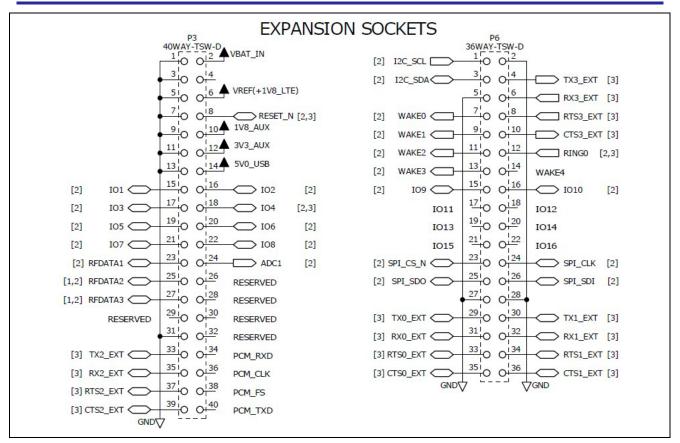


Figure 34. Expansion Connectors Schematics

Table 4 provides the correspondence between the expansion connector signals and the module signals.

Table 4. Expansion Connectors and RYZ014A Signals

P3 Co	P3 Connector Signals to RYZ014A Module				nnector Sign	als to RYZ01	4A Module
P3 Pad	P3 Marking	Direction	RYZ014A Signal	P6 Pad	P6 Marking	Direction	RYZ014A Signal
1	GND	-	-	1	I2C_SCL		I2C_SCL
2	VBAT_IN	I	VBAT	2	GND	-	-
3	GND	-	-	3	I2C_SDA		I2C_SDA
4	-	-	-	4	TX3	I	-
5	GND	-	-	5	GND	-	-
6	VREF (1V8 LTE)	0	1V8	6	RX3	0	-
7	GND	-	-	7	WAKE0	*	GPIO11/ WAKE0
8	RESETn	I	RESETN	8	RTS3	1	-
9	GND	-	-	9	WAKE1	*	GPIO12/ WAKE1
10	1V8_AUX	0	-	10	CTS3	0	-
11	GND	-	-	11	WAKE2	*	GPIO39/ DSR0

P3 Connector Signals to RYZ014A Module			P6 Co	nnector Sign	als to RYZ01	4A Module	
P3 Pad	P3 Marking	Direction	RYZ014A Signal	P6 Pad	P6 Marking	Direction	RYZ014A Signal
12	3V3_AUX	0	-	12	RING0	0	RING0
13	GND	-	-	13	WAKE3	*	GPIO41/ DTR0
14	5V_USB	0	-	14	WAKE4	*	-
15	IO1	Ю	GPIO3/ STATUS_LED	15	IO9	Ю	GPIO29/ 32KHZ_OUT
16	IO2	Ю	GPIO2/ PS_STATUS	16	IO10	Ю	GPIO42/ SAR_DETECT
17	IO3	10	GPIO19/ CLK0	17	IO11	Ю	-
18	104	10	GPIO38/ CLK1	18	IO12	Ю	-
19	IO5	Ю	GPIO40/ EMGCY_SHDN	19	IO13	Ю	-
20	106	10	POWER_EN	20	IO14	Ю	-
21	107	Ю	GPIO26/ CLK2	21	IO15	Ю	-
22	108	Ю	GPIO21	22	IO16	Ю	-
23	RFDATA1	Ю	RFDATA12	23	SPI_CS1	Ю	SPI_CSN
24	ADC1	I	ADC1	24	SPI_CLK	Ю	SPI_CLK
25	RFDATA2	10	RFDATA16	25	SPI_SDO	Ю	SPI_SDO
26	Reserved	-	-	26	SPI_SDI	Ю	SPI_SDI
27	RFDATA3	10	RFDATA17	27	GND	-	-
28	Reserved	-	-	28	GND	-	-
29	Reserved	-	-	29	TX0	I	TXD0
30	Reserved	-	-	30	TX1	I	GPIO14/ TXD1
31	GND	-	-	31	RX0	0	RXD0
32	Reserved	-	-	32	RX1	0	GPIO15/ RXD1
33	TX2	I	TXD2	33	RTS0	I	RTS0
34	PCM_RXD	I	-	34	RTS1	1	GPIO16/ RTS1
35	RX2	0	RXD2	35	CTS0	0	CTS0
36	PCM_CLK	1	-	36	CTS1	0	GPIO17/ CTS1
37	RTS2	1	GPIO21/ RTS2				
38	PCM_FS	I	-				
39	CTS2	0	GPIO22/ CTS2				
40	PCM_TXD	0	-				

2.9 LTE Antenna and RF Connectors

The EVK features an integrated antenna with a matching circuit. The matching circuit is automatically driven by two of the module GPIOs depending on the operating frequency.

In addition, EVK features an RF connector (J1) allowing the board to be connected to an external antenna or test equipment. This connector is compatible with Murata® MXHS83QE3000 cable.

Note: When an external antenna is connected on J1 connector, the internal antenna is automatically disconnected.

Alternatively, an SMA connector can also be soldered on J5. This requires also adding a 0-Ohm resistor on R57 and removing R54, as shown below:

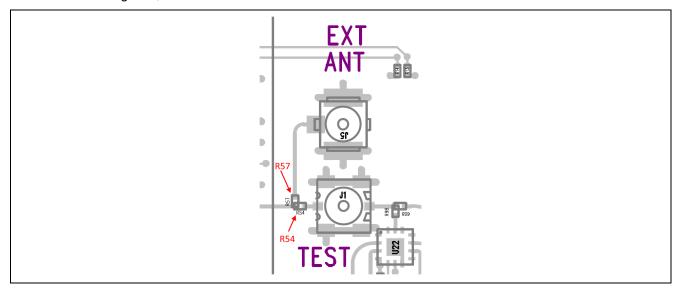


Figure 35. SMA Connector

2.10 Default Position for Jumpers and Switches

The below image shows the default position of all jumpers and switches in the board as manufactured by Renesas:

- ST2 and ST3 jumpers are fitted
- S3 is set in "UART" position in order to redirect the UARTs to the USB port

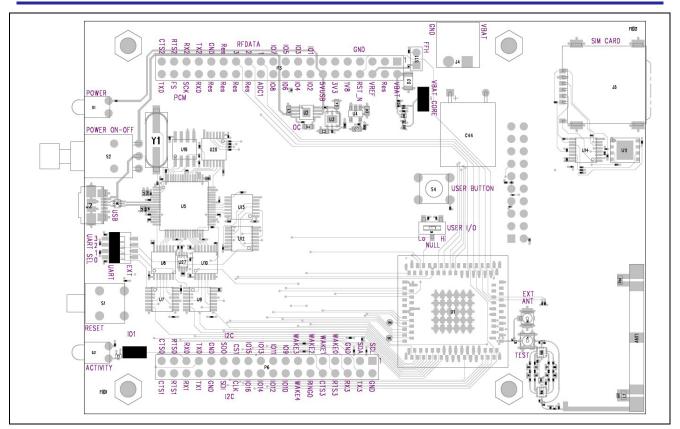


Figure 36. Default Jumpers and Switch Positions

3. Advanced Functions

3.1 How to Connect an External Power Supply

3.1.1 Power via VBAT_IN on J4 Connector

The external power supply can be connected at the Power Input connector J4 (VBAT_IN). When the supply voltage at VBAT_IN is above 1.6 V, the module power VBAT_CORE automatically switches from the 3V3 AUX to the VBAT_IN supply.

Note: J4 is a 2-way, 1-row, right angle PCB terminal block header. To connect to J4, a 3.81-mm pitch, 2-way PCB terminal block can be used.

3.1.2 Power via VBAT_CORE on ST3 Connector

The external power supply can be connected at ST3 VBATT_CORE for the module VBAT1 to supply and measure power.

3.2 How to Connect a Series Current Meter

Strap ST3 can also be used to connect a Series Current Meter. The module current must be measured from this point otherwise there is a risk of measuring additional current from the host board.

If a current measuring power supply is used, then the power should be connected to the strap ST3.

3.3 How to Perform a Remote Reset

When using RYZ014AAA on a remote setup, it may be handy to have the means to reset the board remotely via the host PC. For this, RYZ014AAA can be reset via one of the UART1 ports available on the USB connector

To enable remote reset, fit a 10-kOhm resistor on R35.



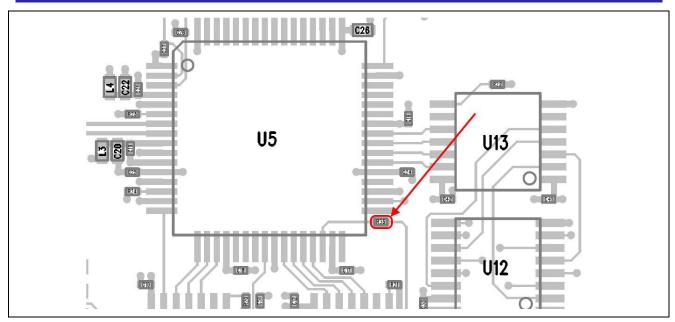


Figure 37. R35 Location on Layout

Remote reset is done by toggling the UART1 DTR pin to High-Low-High. This can be done using a TeraTerm script as shown below:

```
; change flow control to "none"
setflowctrl 3
; DTR Reset
setdtr 0
pause 1
setdtr 1
pause 1
setdtr 0
```

This script sets the DTR high for 1 second, and low for 1 second, and then high (to reset the platform).

3.4 How to Modify the Board by Soldering Bridges

Caution: Always check the schematics for the current revision of your board before changing solder bridges functions.

Table 5. Solder Bridges Identification

Solder Bridge #	Action
SB1	RTS0 pull up to 3V3_AUX
SB2	RTS1 pull up to 3V3_AUX
SB3	RING0 pull up to 3V3_AUX
SB4	RING0 pull down to GND
SB5	I2C_SDA pull up to 1V8_AUX
SB6	I2C_SDA pull up to 3V3_AUX
SB7	I2C_SCL pull up to 1V8_AUX
SB8	I2C_SCL pull up to 3V3_AUX
SB9 IO6 pull up to 3V3_AUX	
SB10	SIM_DETECT connect to Switch in SIM holder J6
SB11	RESET_N pull up to 3V3_AUX
SB12	RESET_N pull up to 1V8_AUX
SB13	SIM_DETECT pull up to 1V8_AUX
SB14 SIM_DETECT pull up to 3V3_AUX	
SB15	RING0 connect to FTDI Ring Indicator A
SB16	IO4 connect to FTDI Ring Indicator B

Figure 38 shows two fitted and two not fitted solder bridges.

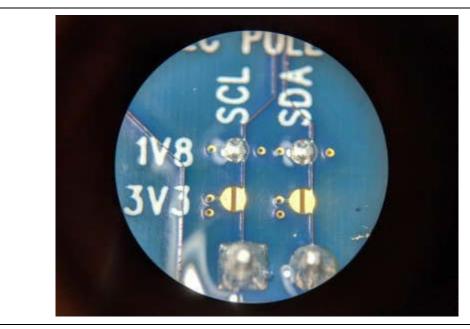


Figure 38. Fitted and Not Fitted Solder Bridges

Solder bridges can be fitted or removed using a single soldering iron to quickly make or break a connection as shown in Figure 39.



Figure 39. Single Soldering Iron on Solder Bridge

4. Certification of Compliance

The RYZ014AAA complies with the laws and regulations described below

FCC: 2AU6XRZ014A ISED: 20519-RZ014A

RE Directive:

Hereby, Renesas Electronics America Inc. declares that the radio equipment type RYZ014AAA is in compliance with Directive 2014/53/EU.

The equipment must be powered by a PS1 source in compliance with the 62368-1 standard.

Australia ACMA:

Japan MIC:

RYZ014A Module has obtained certified construction type certification (certification number: 003-200328).



5. Appendix: Glossary and Abbreviations

Abbreviation	Definition
FEM	Front-End Module
GPIO	General Purpose Input Output
I/O	Input/Output
I2C	Inter-Integrated Circuit
LED	Light Emetting Diod
LTE	3GPP Long-Term Evolution. See also https://www.3gpp.org/
MFF2	Mini Form Factor 2 (SIM card format)
PCB Printed Circuit Board	
RF Radio Frequency system	
SIM Subscriber Identity Module	
RYZ014AAA Renesas Module Evaluation Kit	
UART	Universal Asynchronous Receiver-Transmitter
USB Universal Serial Bus	

6. About this Manual

6.1 Purpose and Scope

Note: This user manual is applicable to revision A3 (RYZ014AAA3). This can be identified in the board markings as P/N HWPT011A3 below Sequans' logo.

The purpose of this guide is to:

- Help RYZ014AAA users to understand their kit.
- Provide them with the set of procedures to start and configure the Evaluation Kit, connect to the network and setup a data connection.

Note: RYZ014AAA Evaluation Kit is dedicated to LTE Category M1 networks only. It supports Renesas' RYZ014A module.

6.2 Who Should Read this Document

This document is intended for any user of the Renesas' RYZ014AAA Evaluation Kit.

6.3 Changes in this Document

This is the first edition of the document.

6.4 References

Reference	Document Title
AT Commands Reference Manual	AT Commands Reference Manual
ITU-T V.250 http://www.itu.int/rec/T-REC-V.250-200307-I/en	SERIES V: DATA COMMUNICATION OVER THE TELEPHONE NETWORK - Control procedures - Serial asynchronous automatic dialling and control
3GPP TS 27.007-13.5.0 http://www.3gpp.org/ftp/Specs/archive/27 series/27.007/27007- d50.zip	AT commands set for User Equipment
3GPP TS 27.005-13.0.0 http://www.3gpp.org/ftp/Specs/archive/27_series/27.005/27005-d00.zip	AT commands set for Short Message Service (SMS) and Cell Broadcast Service (CBS)
3GPP TR 21.905-13.1.0 http://www.3gpp.org/ftp/Specs/archive/21 series/21.905/21905- d10.zip	Vocabulary for 3GPP Specifications

6.5 Documentation Conventions

The following typographic conventions are used in this document.



General Conventions				
Note	Important information requiring the user's attention.			
Caution	A condition or circumstance that may cause damage to the equipment or loss of data.			
Warning	A condition or circumstance that may cause personal injury.			
Italics	Italic font style denotes Emphasis of an important word First use of a new term Title of a document.			
Screen Name	 Sans serif, bold font denotes On-screen name of a window, dialog box or field Keys on a keyboard Labels printed on the equipment. 			
Software Conventions				
Code	Regular Courier font denotes code or text displayed on-screen.			
Code	Bold Courier font denotes commands and parameters that you enter exactly as shown. Multiple parameters are grouped in brackets []. If you are to choose only one among grouped parameters, the choices are separated with a pipe: [parm1 parm2 parm3] If there is no pipe separator, you must enter each parameter: [parm1 parm2 parm3]			
Code	Italic Courier font denotes parameters that require you to enter a value or variable. Multiple parameters are grouped in brackets []. If you are to choose only one among grouped parameters, the choices are separated with a pipe: [parm1 parm2 parm3] If there is no pipe separator, you must enter a value for each parameter: [parm1 parm2 parm3]			

Revision History

Description		1	
Rev.	Date	Page	Summary
1.00	Nov.10.20	_	First release document
1.01	May.24.21		Section 1 edited.
1.02	Jun.01.21	2-7, 10-20, others	New information in sections 1.1, 1.2 and 1.5. Other minor changes.
1.03	Mar.04.22	9	Changed Access URL
		30	Added Certification of Compliance

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