



Dear customer

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Therefore, all references to "LAPIS Technology Co., Ltd.", "LAPIS Technology"
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Furthermore, there are no changes to the documents relating to our products other than
the company name, the company trademark, logo, etc.

Thank you for your understanding.

ROHM Co., Ltd.
April 1, 2024

ML7404 LPWA/SubG Evaluation Kit Start Guide

Issue Date: Jan 20th, 2022

NOTES

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Introduction

Thank you very much for purchasing products of our company. Before using this product, please use correctly after reading this “start guide”. Moreover, please keep it carefully even after reading this. This start guide indicates the updating method to Sigfox cloud, procedure, sensor bridge operation with bridge communication and the method to change the operation mode.

Please download the software that is implemented in the evaluation kit, the details of command, the command script, the manual and the evaluation tools from the company support site.

《LAPIS Technology., Co.Ltd support site》

https://www.lapis-semi.com/cgi-bin/MyLAPIS/regi/login_J.cgi

Wireless communication LSI ⇒ Specified small power wireless communication documents/software ⇒ ML7404 ⇒ LPWA bridge communication for ML7404, download from Sigfox communication software

(X indicates version number)

●Manual

FEXK74Q410_startguide-XX.pdf (This document)

LWCSP_System_VXXX.chm

WCT3.X.X User Guide

●Software (Command Script)

ML7416S 用 LWCSP lwesp_VersionX.XX_XXXXXXX.zip

ML7416S SDK ML7416S_SDK_VXXX.zip

●Evaluation Tool

WCT3 WCT3XX.zip

Notation

Classification	Notation	Description
<input type="checkbox"/> Numeric value	0xnn 0bnnnn	Represents a hexadecimal number. Represents a binary number.
<input type="checkbox"/> Address	0xnnnn_nnnn	Represents a hexadecimal number. (indicates 0xnnnnnnnn)
<input type="checkbox"/> Unit	word, W byte, B Mega, M Kilo, K (uppercase) Kilo, k (lowercase) Milli, m Micro, μ Nano, n Second, s (lowercase)	1 word = 32 bits 1 byte = 8 bits 10^6 $2^{10}=1024$ $10^3=1000$ 10^{-3} 10^{-6} 10^{-9} Second
<input type="checkbox"/> Terminology	"H" level "L" level	Signal level on the high voltage side; indicates the voltage level of V_{IH} and V_{OH} as defined in electrical characteristics. Signal level on the low voltage side; indicates the voltage level of V_{IL} and V_{OL} as defined in electrical characteristics.
<input type="checkbox"/> Register description	Read/write attribute: R indicates read-enabled; W indicates write-enabled. MSB: Most significant bit in an 8-bit register (memory) LSB: Least significant bit in an 8-bit register (memory)	

Table of Contents

NOTES	2
Introduction	4
Notation	5
Table of Contents.....	6
1. Precautions of handling this product.....	7
2. Overview	8
3. Package Contents Confirmation	9
4. Board Explanation	10
5. Customer Preparation.....	11
5.1. Reading method of ID,PAC	12
5.2. How to register the evaluation kit	14
6. Switching Operation Mode	15
7. Sigfox Communication	17
7.1. Data Transmission Method to Sigfox cloud	17
7.2. Confirmation method of Sigfox cloud	17
8. IEEE802.15.4k-Sigfox Bridge Communication	18
8.1. Setting up of Sensor Node's side.....	18
8.2. Setting up of Bridge Server side.....	19
9. Antenna Setting	20
10. Support Site	21
Revision History	22

1. Precautions of handling this product

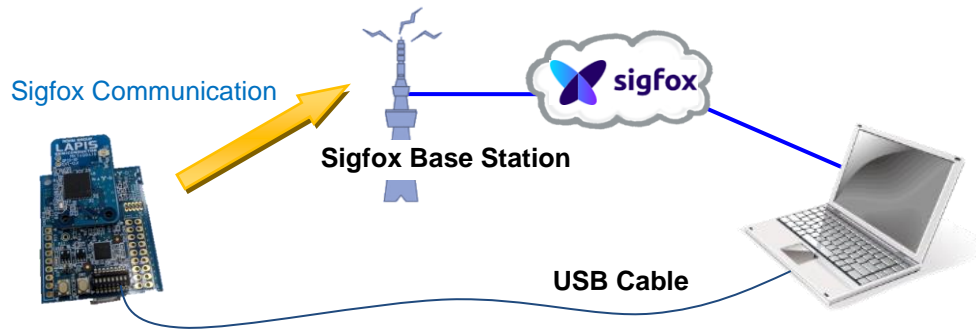
- This product is the evaluation kit. This is used for only evaluation.
- Use the application software of this product on the PC that installs the Japanese version Windows10.
- Refer the software license, then use the application software for PC and the software for MCU relating to this product.
- LAPIS Technology shall have no responsibility for remodeling and any illegal usages of our product.
- If this product emits harmful radio waves, change the frequency or stop the radio wave emission immediately, then avoid interference.

2. Overview

ML7404LPWA/SubG evaluation kit (Hereafter it is written as Evaluation Kit) can executes some evaluation, demonstration. This chapter explains three modes, 1)Sigfox communication, 2) IEEE802.15.4k-Sigfox bridge communication, 3)RF evaluation with WCT3. Other sample software is prepared, please refer to (LWCSP_System_VXXX.chm) in detail.

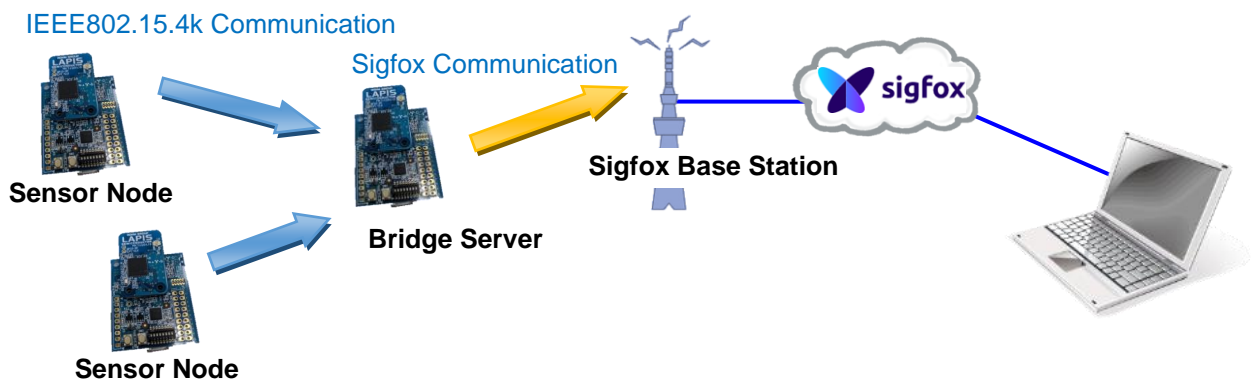
1) Sigfox Communication

Sigfox certified reference module (MK74Q0410) can transmits data(fixed data) from PC to Sigfox cloud. PC can read the data on the cloud easily.



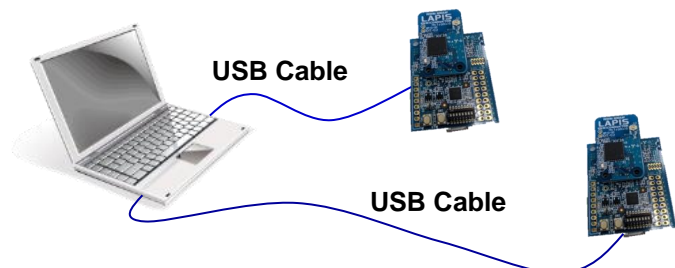
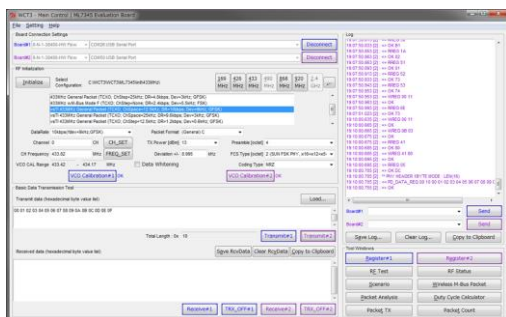
2) IEEE802.15.4k-Sigfox Bridge Communication

Sensor modes that sense the sensor devices and transmit data to bridge server with IEEE802.15.4k communication, bridge server that receives data from sensor nodes and transmits the data to Sigfox base station periodically, they execute standalone operation each other. PC can read the data on the Sigfox cloud easily.



3) RF Evaluation with WCT3

It is possible to evaluate RF that is read/written to some registers with Windwos GUI tool WCT3. Two boards that connects to PC with USB can communicate each other.



3. Package Contents Confirmation

Please confirm the following contents are in the box.
If some contents are short or broken, inform the purchase shop.

*Depending on the shipping period, the implemented parts may be different from the photo.

*Please prepare the PC.

Configuration Part	Quantity
(1) MK74Q0410(ML7404/ML7416S is implemented)	1
(2) Interface Board	1
(3) RF Cable + Antenna	1
(4) USB Cable (TypeA-micro B)	1

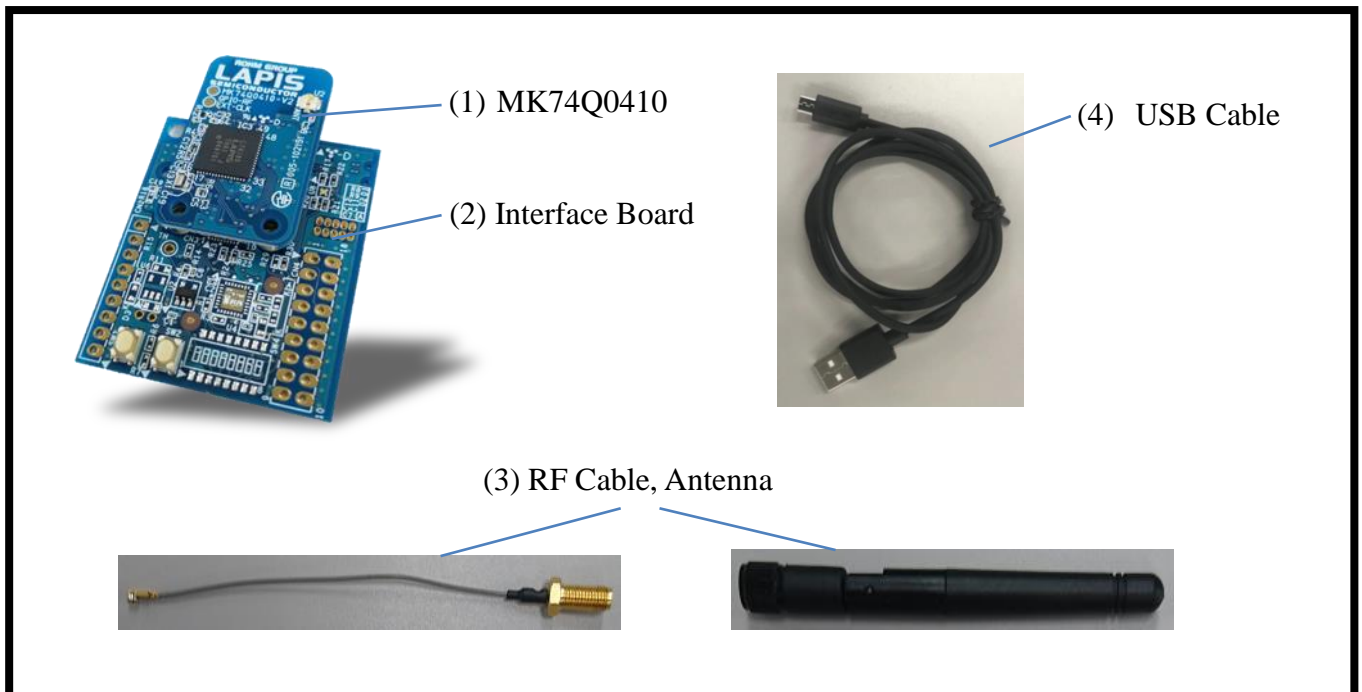


Figure 1: Evaluation Kit

4. Board Explanation

At the time of delivery, microcontroller (ML7416S) is set to boot the internal program at the initial state.

When board setting is changed, turn power off.

Connect USB connector that is surrounded by yellow thick line in the Back Side figure to USB cable.

[Note] If USB cable is connected diagonally, the connector may be broken.

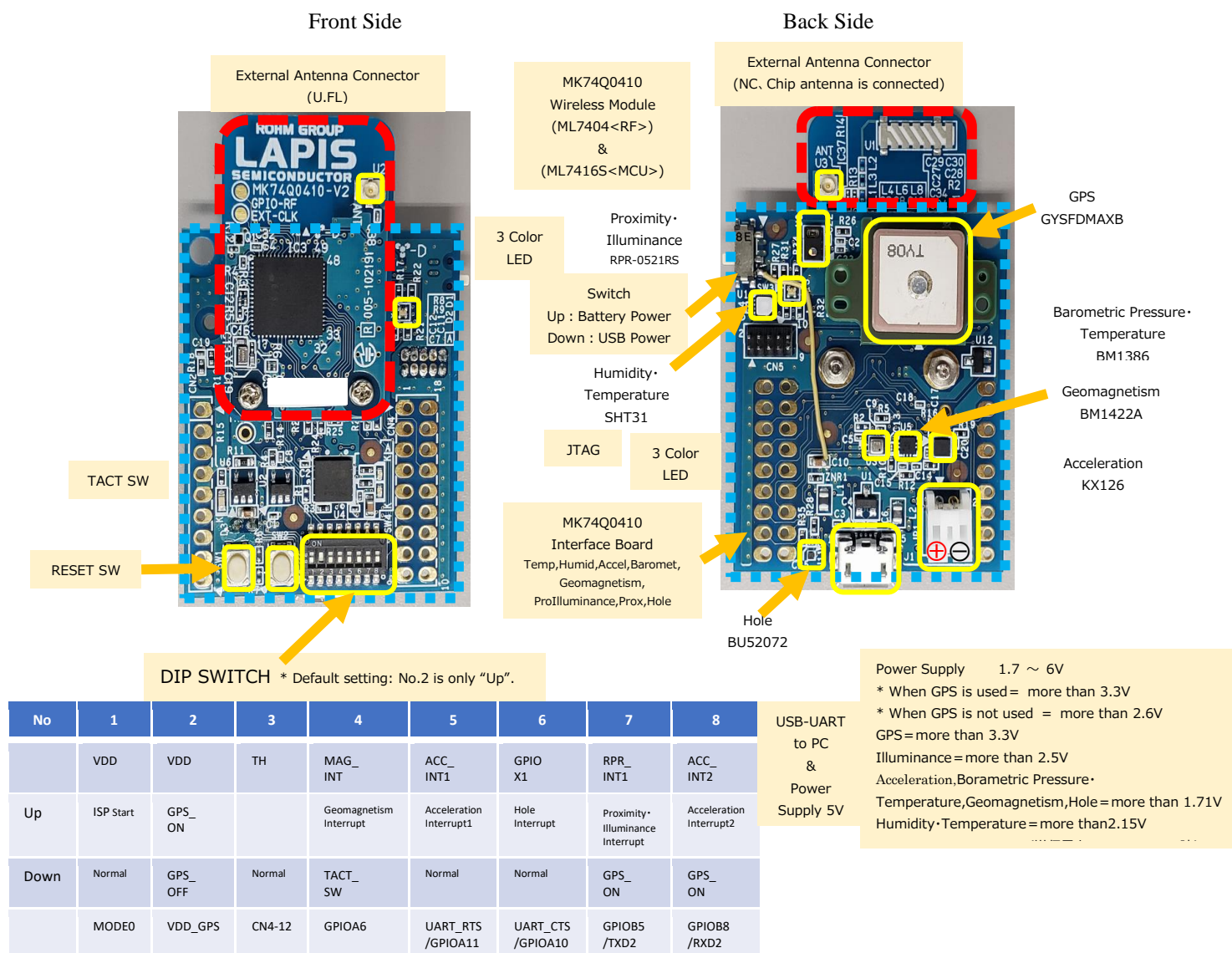


Figure 2: Evaluation Board

*Refer to the following about the evaluation board schematic and the parts list. (XX indicates version number)

MK74Q0410 wireless module : Schematic_ML7404_ML7416S_vXX_connector.pdf

: PartsList_ML7404_ML7416S_vXX.pdf

MK74Q0410 Interface Board : Schematic_MK74Q04xx_IF_vXX.pdf

: PartsList_MK74Q04xx_IF_vXX.pdf

5. Customer Preparation

- Confirmation of device ID information

Before Sigfox communication, it is necessary to register the device(MK74Q0410) that customer purchased to Sigfox WEB site. Please confirm device ID and PAC information.

⇒Please refer to [5.1. Reading method of ID, PAC] in detail.

- Activation of the evaluation kit

It is necessary to purchase Sigfox communication line contract from Japan communication line service provider. When using the evaluation kit of Lapis Technology, it is possible to use the line free of charge for one year.

⇒Please refer to [5.2. How to register the evaluation kit] in detail.

*In case of renting the evaluation kit, purchasing communication line and device registration is unnecessary.

5.1. Reading method of ID,PAC

ID, PAC informations *1 are necessary to register device to Sigfox Portal *2.

Read ID, PAC informations as following procedure.

[Procedure]

(1) It uses PowerShell*3 on the Windows PC.

The preparation*4 is necessary on the PowerShell.

*1: Sigfox network assigns the fixed identification number to identify the terminal that is authenticated by Sigfox communication. They are the DEVICE ID (Abbreviation: ID), Portable Authentication Code (Abbreviation: PAC)

*2: Sigfox Portal is a Sigfox site to register, control Sigfox device and confirm data arrived at Sigfox cloud.
(<https://backend.sigfox.com/auth/login>)

*3: PowerShell is the extensible command line interface (CLI) and shell script language, scripting environment that is supported by Windows7 or later.

*4: PowerShell scripts are supplied without PowerShell signature to edit the execution policy for users. Initial value is set to "Restricted" that prohibits script execution. It is necessary to edit the execution policy to execute the supplied script at first.

(2) PowerShell Preparation (Changing method of execution policy)

1) Right click [Windows PowerShell] icon of start menu and direct [Click run as administrator(A)].



2) Set the following command in the PowerShell console display.

PS C:\Windows\system32> **Set-ExecutionPolicy RemoteSigned**

Scripts that are stored on the Local are set to executable. Only signed scripts (downloaded from Internet) that are stored on the Unlocal are set to executable.



- (3) Connect Evaluation Kit and Windows PC with USB.
- (4) Download the command script files (ML7416S LWCSP, ML7416S SDK) from the Support Site that is described at "Introduction" (Page 4) then store them at the arbitrary folder.
- (5) Set the following command to enable PowerShell*5 with WCT3*6.

SET_SAL 00 0C 03 10<CR>

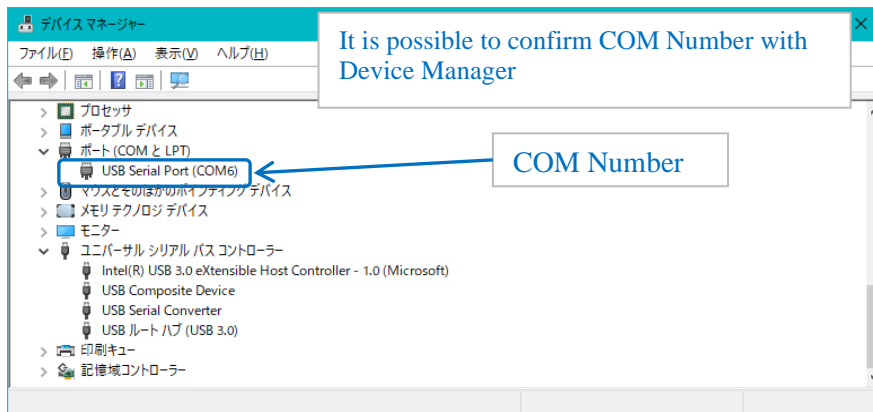
*5: Sigfox Evaluation Kit includes some sample application. The shipping initial state is [WCT_IF application] executable. Application is necessary to switch the mode to enable PowerShell.

*6: Refer to [WCT3.5.3 User Guide] about usage of WCT3(GUI Tool for LAPIS Technology SubG LSI Evaluation Board).

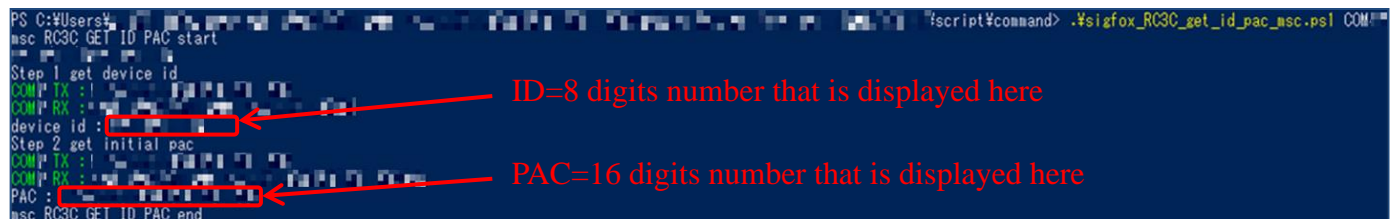
- (6) Move to the folder that stores command script on the PowerShell.
`PS C:\Windows\system32>cd C:******\LWCSP_VXXX_MLYYYY\script\command`
 (Change, adjust *** and the folder hierarchy to the location of the files that customer download)
- (7) Execute the command script "sigfox_RC3C_get_id_pac_msc.ps1" on the PowerShell.
 Files with [.PS1] extension are PowerShell script files. It is necessary to direct path expressly for PowerShell to execute script file. Script execution on the PowerShell need to direct absolute path or attach .\ on the top of current directory file.

Script execution example :

PS C:\Users\XXXX\XXXX\XXXX\script\command>.\sigfox_RC3C_get_id_pac_msc.ps1 COM*
 (Set "*" to COM number of Evaluation Kit)



Execution example)



5.2. How to register the evaluation kit

Communication line contract is necessary with KYOCERA Communication Systems (KCCS) to transmit data from Sigfox device to Sigfox cloud in Japan. When using the evaluation kit of Lapis Technology, it is possible to use the line free of charge for one year. Please refer to "Registering the device as a development kit (DevKit)" on the KCCS technology blog site below and follow the device registration procedure.

<https://qiita.com/organizations/sigfox>

In addition, if you apply for a line contract other than the above, it will be posted on the following site of KCCS, so please apply and register as appropriate according to the posted contents..

<https://www.kccs-iot.jp/buy/flow/>

Note: Rough indication of 1 communication line fee ¥700 - ¥1,200 Device/Year (at January, 2020)

The communication line fee depends on the number of communication per 1 day and Sigfox Atlas (Location-based service)

6. Switching Operation Mode

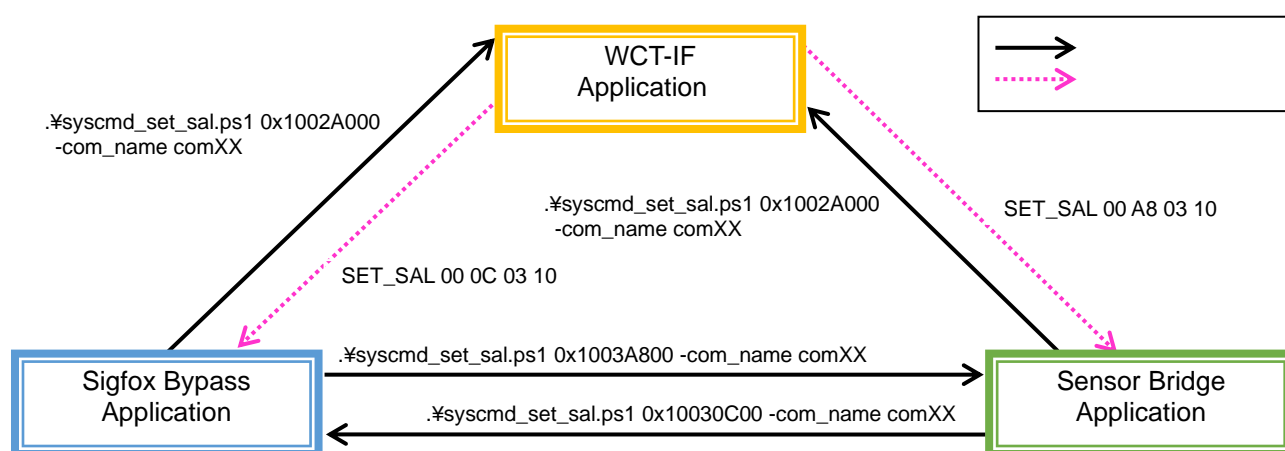
This chapter explains switching method of 3 modes that are 1)Sigfox communication, 2)IEEE802.15.4k-Sigfox bridge communication, 3)RF evaluation with WCT3. These operation modes can be set to switch the following sample application as Boot software.

- | | |
|--|---------------------------|
| 1) Sigfox communication | Sigfox Bypass Application |
| 2) IEEE802.15.4k-Sigfox bridge communication | Sensor Bridge Application |
| 3) RF evaluation with WCT3 | WCT-IF Application |

Boot software can be set with rewriting SAL(Start Address List). After rewriting SAL, program starts at the directed address with power on reset. Rewriting method depends on the current execution software. When WCT-IF is executed, issue “SET_SAL” command on WCT3 tool. When other application software is executed, issue syscmd_set_sal.ps1 script on the PowerShell. Execute hardware reset after rewriting SAL.

The following figure shows the relationship between the execution software and SAL rewriting command.

*Factory default setting is WCT-IF application.



■ Switching method with PowerShell Command

- (1) Move to the folder that stores command script on the PowerShell.
- (2) Execute command script “`.\syscmd_set_sal.ps1 0xXXXXXXXX -com_name comXX`” on the PowerShell.

[Execution example]

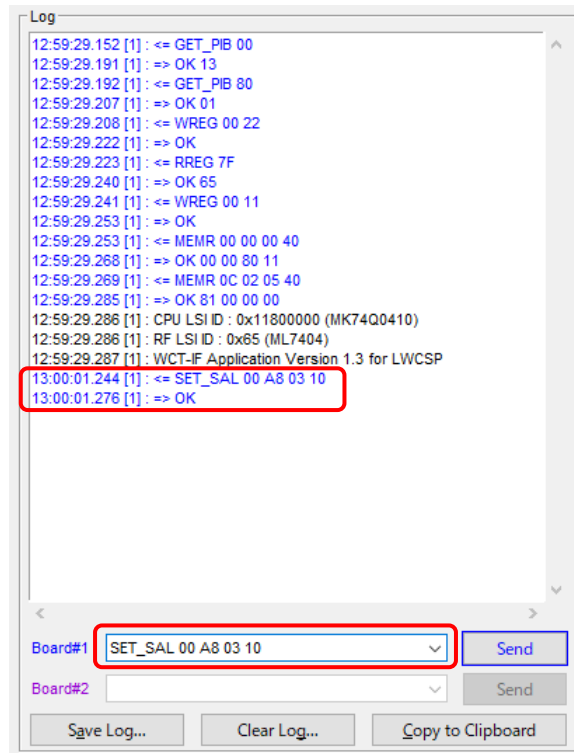
```

PS C:\LWCSP\script\command> .\syscmd_set_sal.ps1 0x10030C00 -com_name com5
System Command SET_SAL
com5 : 01FF0800010001000000C031003
com5 : 02FF05000100010000003
10
  
```


■ Switching method with WCT command

- (1) Start WCT3 tool.
- (2) Put [Connect] button of WCT3, then connect to evaluation kit.
- (3) Input SET_SAL command from the right input field.

[Execution Example]



The start addresses of each application programs are following.

Sample Application	Program start address
WCT-IF Application	0x1003A800
Sigfox Bypass Application	0x1002A000
Sensor Bridge Application	0x10030C00

7. Sigfox Communication

This chapter explains the method to transmit data to Sigfox base station. Confirm and set the procedure of [5. Customer Preparation] previously.

7.1. Data Transmission Method to Sigfox cloud

Execute the command script “sigfox_RC3C_send_frame_msc.ps1” on the PowerShell.

Script execution example: PS C:\Users\¥XXX¥XXX¥XXX¥script¥command>.¥ sigfox_RC3C_send_frame_msc.ps1 COM*

(Please set COM number of connected device of evaluation kit to “*”)

Execution example)

```
PS C:\¥ #Bridge_System_Version1.20¥MK7400410¥script¥command> .¥sigfox_RC3C_send_frame_msc.ps1 COM¥
msc RC3C SEND FRAME start
Step 1 open
COM9 TX : [TX]
COM9 RX : [RX]
Step 2 set std config
COM9 TX : [TX]
COM9 RX : [RX]
Step 3 get version
COM9 TX : [TX]
COM9 RX : [RX]
Sigfox Library Version : V2.3.1_FDL
Step 4 send frame
COM9 TX : [TX]
COM9 RX : [RX]
Step 5 get info
COM9 TX : [TX]
COM9 RX : [RX]
Information : DB
Step 6 close
COM9 TX : [TX]
COM9 RX : [RX]
msc RC3C SEND FRAME end
```

7.2. Confirmation method of Sigfox cloud

Device management and data confirmation that is registered to Sigfox service is done on the Sigfox Portal (<https://backend.sigfox.com/auth/login>)*6. Please complete device registration that is introduced at the previous page, transmit data, then confirm the data on it.

The image shows two screenshots of the Sigfox Portal interface with annotations for device management and data confirmation.

Top Screenshot: Device - List

- Annotation (2) Click device: Points to the "DEVICES" tab in the left sidebar.
- Annotation (2) Click Id number: Points to the "Id" column in the "Device - List" table.

Device type	Group	Id	Last seen	Name
...
...
...

Bottom Screenshot: Device Information and Data

- Annotation (3) Click MESSAGES: Points to the "MESSAGES" tab in the left sidebar.
- Annotation Time that data is received: Points to the "Time" column in the data table.
- Annotation Received data: Points to the "Data / Decoding" column in the data table.

Time	Data / Decoding	LQI	Callbacks	Location
...
...
...

*6: Sigfox ID is necessary to login the Sigfox Portal. It can be produced in the procedure of KCCS line contract.

8. IEEE802.15.4k-Sigfox Bridge Communication

This chapter explains the sensor bridge application of IEEE802.15.4k-Sigfox. Sensor bridge application executes the process that the Sensor (Humidity, Temperature, Accelation, Barometric pressure, Geomagnetism, ProIlluminance, Proximity, Hole, GPS) Nodes get data, transmit the data with IEEE802.15.4k communication to Bridge Server then the Bridge Server transmits the data to Sigfox base station.

Please refer to the item [Sample Application (Sensor Bridge Application)] of the manual (LWCSP_System_VXXX.chm) in detail.



8.1. Setting up of Sensor Node's side

- (1) When the Sigfox ID and PAC are written, the sensor node operates as a Sigfox device, so the Sigfox ID and PAC information are deleted. To do this, unprotect the boot program area of the ML7416S. For details on how to unprotect, refer to the "Write Sigfox Credentials" section of the "Sigfox Firmware Framework" tab in the manual (LWCSP_System_VXXX.chm).
- (2) Edit "settings.xml" in the folder that stores command script as following.

```

<config>
  <id>0xFFFFFFFF</id>
  <pac_l>0xFFFFFFFF</pac_l>
  <pac_h>0xFFFFFFFF</pac_h>
  <key_ll>0xFFFFFFFF</key_ll>
  <key_lh>0xFFFFFFFF</key_lh>
  <key_hl>0xFFFFFFFF</key_hl>
  <key_hh>0xFFFFFFFF</key_hh>
</config>
  
```

- (3) Move to the folder that stores command script on the PowerShell.
- (4) Execute the command script ".\sigfox_write_credential.ps1 -com_name comXX" on the PowerShell. This script writes ID,PAC,KEY that is edited in the "settings.xml" previously to the device.

[Execution example]

```

PS C:\LWCSP\script\command> .\sigfox_write_credential.ps1 -com_name com3
com3 : 01FF0A00010101FF00000040040003
com3 : 02FF0E00010101FF000000400400000001103
System Command SCTR_ERASE
com3 : 01FF0A00030101FF00FE0314010003
com3 : 02FF0500030101FF0003
10
com3 : 01FF2A00020101FFE0FF03142000FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF03
com3 : 02FF0500020101FF0003
10
  
```

- (5) Refer to [6. Switching Operation Mode] and set [Sensor Bridge Application] to the Boot software.
- (6) Set No.5 and No.6 of DIP switch to ON. If GPS is used, set No.2 to ON too.
- (7) Sensor Nodes start to transmit the sensed data to Bridge Server periodically after hardware reset. If Bridge Server is not waked up, LED emits red light to mean transmission failure.

* Please contact the address of [10. Portal Site] if resetting to Sigfox Communication status is necessary after setting Sensor Node status.

8.2. Setting up of Bridge Server side

- (1) Refer to [6. Switching Operation Mode] and set [Sensor Bridge Application] to the Boot software.
- (2) Move to the folder that stores scripts of Sensor Bridge on the PowerShell.
- (3) At the default setting, the device is operated as a sensor node. Execute the script **".\snsr_br_set_testmode.ps1 1 -com_name comXX"** of sensor bridge to stop the operation.

[Execution Example]

```
PS C:\LWCSP\script\sensor_bridge> .\snsr_br_set_testmode.ps1 1 -com_name com3
Sensor Bridge Get Application Parameter
com3 : 01400500000400000103
com3 : 02400500000400000003
10
```

- (4) Execute the script **".\snsr_br_smpmac_set_eepem.ps1 -device 1 -com_name comXX"** to operate as Bridge Server.
Set the argument of -device to "0" to operate as Sensor Node.

[Execution Example]

```
PS C:\LWCSP\script\sensor_bridge> .\snsr_br_smpmac_set_eepem.ps1 -device 1 -com_name com5
Set SimpleMAC Parameter
com5 : 01FF0600020201FF062803
com5 : 02FF2600020201FF06280100000008080403000104060A00F40134120110FFFFFFFFFFFFFFFFFFFFF03
com5 : 01FF2800010201FF062820000100000008080403000104060A00F40134120110FFFFFFFFFFFFFFFFFFFFF03
com5 : 02FF0500010201FF0003
10
```

- (5) Bridge Server becomes the status to wait for receiving data from Sensor Node after hardware reset.

9. Antenna Setting

This evaluation board can select the external antenna (front side of evaluation board) or chip antenna (back side of evaluation board). Chip antenna is selected at the initial status. If customer uses the external antenna, switch the setting as following procedure.

- (1) Move to the folder that stores LWCSP command script on the PowerShell.
 PS C:\windows\system32>**cd C:******\LWCSP_VXXX_MLYYYY\script\command**
 (Change, adjust *** and the folder hierarchy to the location of the files that customer download)
- (2) Execute the command script “**syscmd_set_antsw.ps1**” on the PowerShell.

Antenna	Setting Value
External Antenna (Front)	0x02
Internal Antenna (Back)	0x06(Initial state)

Script execution example: PS C:\Users*********\script\command>. **syscmd_set_antsw.ps1 -com_name COM* -set_dat 0x02**

(Set COM number of connected device of evaluation kit to “*”)

The following message is displayed when script is executed. (This example is the case of setting 0x02)

```
System Command SET_EEPEM
COM18 : 01FF0C00010201FF000E04000200000003
COM18 : 02FF0500010201FF0003
10
```

10. Support Site

LAPIS Technology asks customers to register user information at [LAPIS Technology Support Site] to provide good quality products and services. Registration to this Support Site allows to download the latest documents and evaluation tools. Please take this opportunity to register.

■Registration Method

1. Access to [Support Site] of LAPIS Technology's Top Page.

<https://www.lapis-tech.com/en/>

Top Page  [Support Site]

Or refer to the following address directly.

<https://www.lapis-semi.com/cgi-bin/MyLAPIS/regi/login.cgi>

2. Click [Sign up/Reregistration] button, then register as following the display direction.

*At first, do [Temporary Registration], then complete [Main Registration] to register this Support Site.

*When do [Main Registration], set [Wireless LSI] to [Product Fields], [Bluetooth / Sub-GHz・LPWA Evaluation Kit] to [Development/Evaluation Tool] and [Serial Number of development Tool]. [Serial Number of Development Tool] is provided from LAPIS Technology when customer purchases the evaluation kit.

[Note]

Customer receives [Notification of registration completion] after completing registration. Please wait for a while. Even if registration is completed and it is impossible to download files, login to Support Site, and register [Serial Number of Development Tool] of “Modification of Access Permission” again.

■Contact

Please contact the following address about this Support Site, or fill the [Contact] form in this Support Site.

[Contact Address]

E-mail: telecom-support@lapis-tech.com

Revision History

[illegible]

(Note) Spelling mistakes, word changing or corrections are not included.