



AsBridge

ASA-112M

Data Register for AsReaderGun Series

User's Manual

Copyright © Asterisk Inc. All Rights Reserved.

AsReader® is registered trademarks of Asterisk Inc.

Other company and product names are generally trademarks or registered trademarks of their respective companies.

The contents of this manual are subject to change without notice.

Contents

Preface	2
Safety Instructions	3
How to Care for the Device	4
1 Assembly of Products and Accessories	1
Inside the Box	1
2 Name of Each Part and Operations	2
3 Basic Operations	5
4 Working Modes and Supporting AsReaders	7
4.1 Working Modes	7
4.2 Supporting AsReaders	7
5 Use with ASR-L251G	8
6 Use with ASR-R202G	10
7 U-Disk Mode	11
8 How to Update Firmware via Configuration File	12
9 How to Set AsBridge via Configuration File	13
10 How to set the AsBridge Local Time via Configuration File	14
11 Troubleshooting	15
Appendix 1- Configuration File Format for ASR-L251G	16
Appendix 2- Configuration File Format for ASR-R202G	20
Appendix 3-Configuration File Format for AsBridge	21
Appendix 4- Specifications	23

Preface

Thank you for purchasing the AsBridge.

AsBridge is a data register that can be used with AsReaderGun series ASR-R202G, ASR-L251G devices.

The barcode /tag information read by AsReader can be cached in the memory of the AsBridge device. AsBridge devices are identified as U-Disk when plugged into a computer. To read the barcode /tag information, you only need to plug it to your PC and read the data files in the U-Disk. Non-Bluetooth data transmission is realized, which is suitable for some information security areas that do not allow the use of Bluetooth technology.

This manual describes precautions for handling AsBridge correctly.

Please read the manual carefully and keep it as long as you have the device.

※In some sections of this manual, we may refer to " AsBridge " as "the device", "this device", or "AsReader" except for accessories.

If you have any comments or questions about this manual, please contact the following.
AsReader, Inc.

920 SW 6th Ave., 12th Fl Ste 1200, Portland, OR 97204-1212 USA

Toll Free (US+Canada): +1 (888) 890 8880 / Tel: +1 (503) 770 2777

- ◇ In order not to damage your life and property safety, please read this manual carefully before using this device. We will not be responsible for any loss caused by non-compliance with this manual.
- ◇ We are not responsible for any damage caused by natural disasters, such as earthquake, lightning, wind, flood, fire outside our responsibility, third party behavior, other accidents, intentional or negligent, abuse or other improper use.
- ◇ We do not assume any responsibility for the losses caused by improper use of communication hardware or software developed by our company.
- ◇ For obtaining information, data, files or other products and services through this product, we do not provide any form of guarantee and technical support or assume any responsibility.
- ◇ We do not assume any form of guarantee or technical support responsibility for third-party software work with this product.
- ◇ If the damage is caused by falling or collision as determined by our company, the maintenance fee will be charged even within the warranty period.
- ◇ We will take appropriate measures to ensure that our products do not infringe other patents, but we are not responsible for any patent infringement caused by any of the following 1) to 3).
 - 1) Used in combination with components, products, equipment, data processing systems or software outside our company.
 - 2) Our products are used in unexpected ways.
 - 3) Modification of our products by any person or company other than our company.

Safety Instructions

Please read the following instructions carefully to prevent injury, malfunction, fire, etc.

Warning

Do not attempt to disassemble, modify or repair the device yourself, otherwise it may cause malfunction, fire or electric shock. We are not responsible for any malfunction of the device, the smart device or the PC.

If you notice any abnormalities such as smoke, abnormal odor, or strange noise coming from the device during use, stop using it immediately. Continued use may cause fire or electric shock.

Do not drop or throw the device and subject it to strong impact. It may cause damage, fire, electric shock, or malfunction. If the device is damaged by dropping and the inside of the device is exposed, do not touch the exposed part with your hands, because there is a risk of electric shock or injury on the damaged part.

Do not charge the battery in wet environments, as water may leak through the Type-B port to the battery. Otherwise, it may result in electric shock, short circuit, fire, or burns.

Do not use if the micro USB charging terminal is damaged or broken. It may cause fire or electric shock.

If charging is not completed within the specified charging time, stop charging. It may cause liquid leakage, heat generation, fire, or failure.

Do not use, store, or leave the device in hot places (e.g. by the fire, near a heater, in direct sunlight, in a car in hot weather). It may cause rupture, malfunction, fire or injury.

Do not throw the device into fire or heat. It may burst or cause a fire.

Caution

For charging, please use the dedicated USB charging cable and the magnetic detachable connector and charging adapter with an output of 5V1A. Using different chargers may result in failed charges.

Please refer to local regulations when you recycle this device.

If you notice any abnormalities, please discontinue use and contact your distributor immediately.

Continuous use of this product in water or in rain may cause damage to the product or attached mobile devices. If it gets wet, please wipe it off immediately with a clean, dry cloth.

The terminal of the USB charging cable has a built-in magnet, which may erase the data on magnetic cards such as credit cards. So, to protect your data, please keep magnetic cards, such as credit cards, more than 10 cm away from this magnet.

How to Care for the Device

Please use this device in a clean environment. Adhesive chemicals or oils may cause the resin shell to break.

- chemicals include cosmetics, detergents, pesticides, thinners, gasoline, etc.
- oils include tallow and other animal oils, hand creams, etc.

Please keep the device clean. If the device becomes dirty, wipe it with a soft, dry cloth.

- 1) Using solvents of high volatility may cause color changes and performance problems.

1 Assembly of Products and Accessories

Inside the Box

The following items are contained in the box. Please first make sure you have all of these items. In case that any items are missing, please contact the company from whom you purchased the device.

- The device



The following parts are sold separately:

- Gender ASA-017C
- USB Type-B charging cable



2 Name of Each Part and Operations

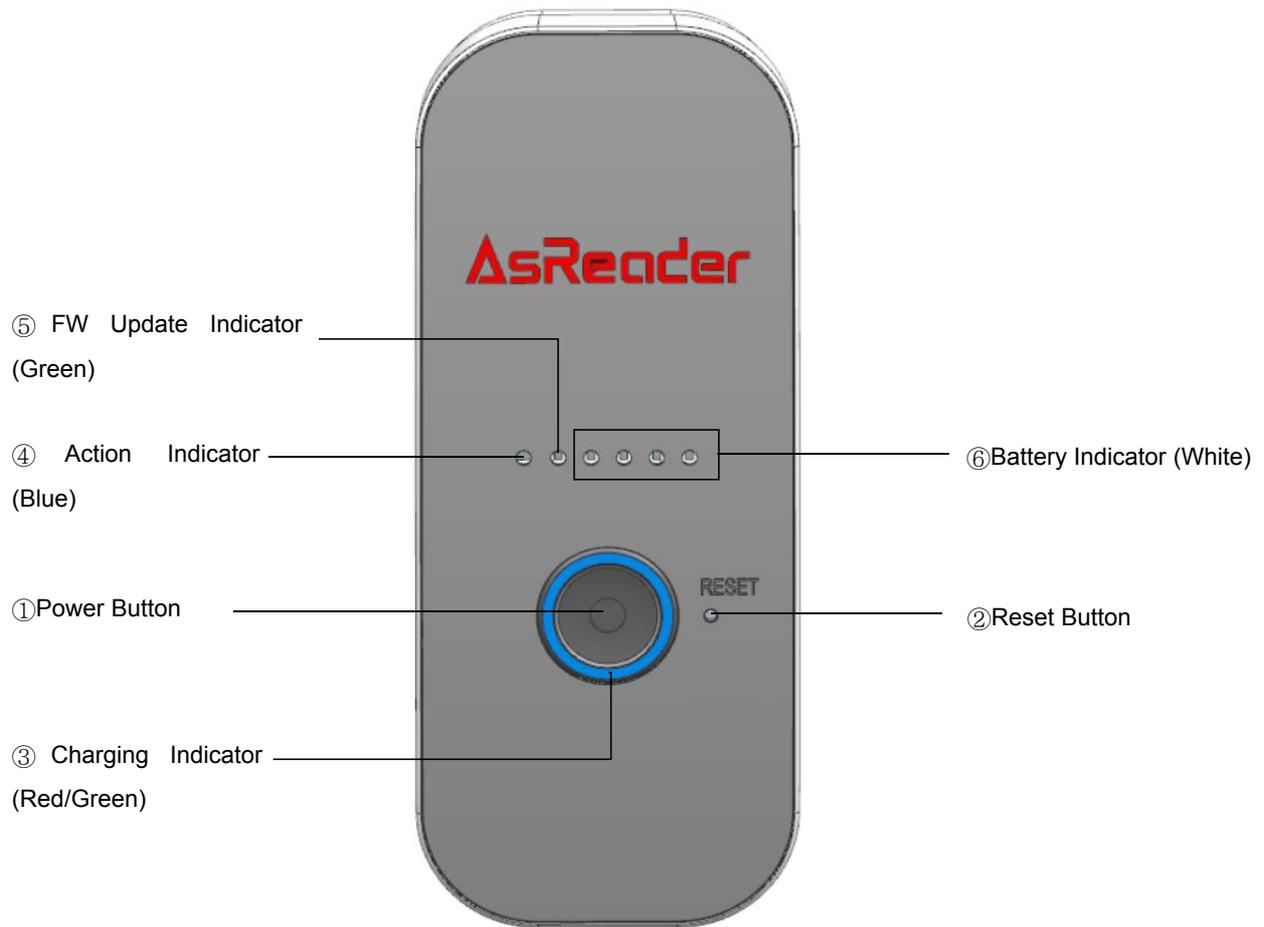


FIG. 2-1 Appearance Indication (Front)

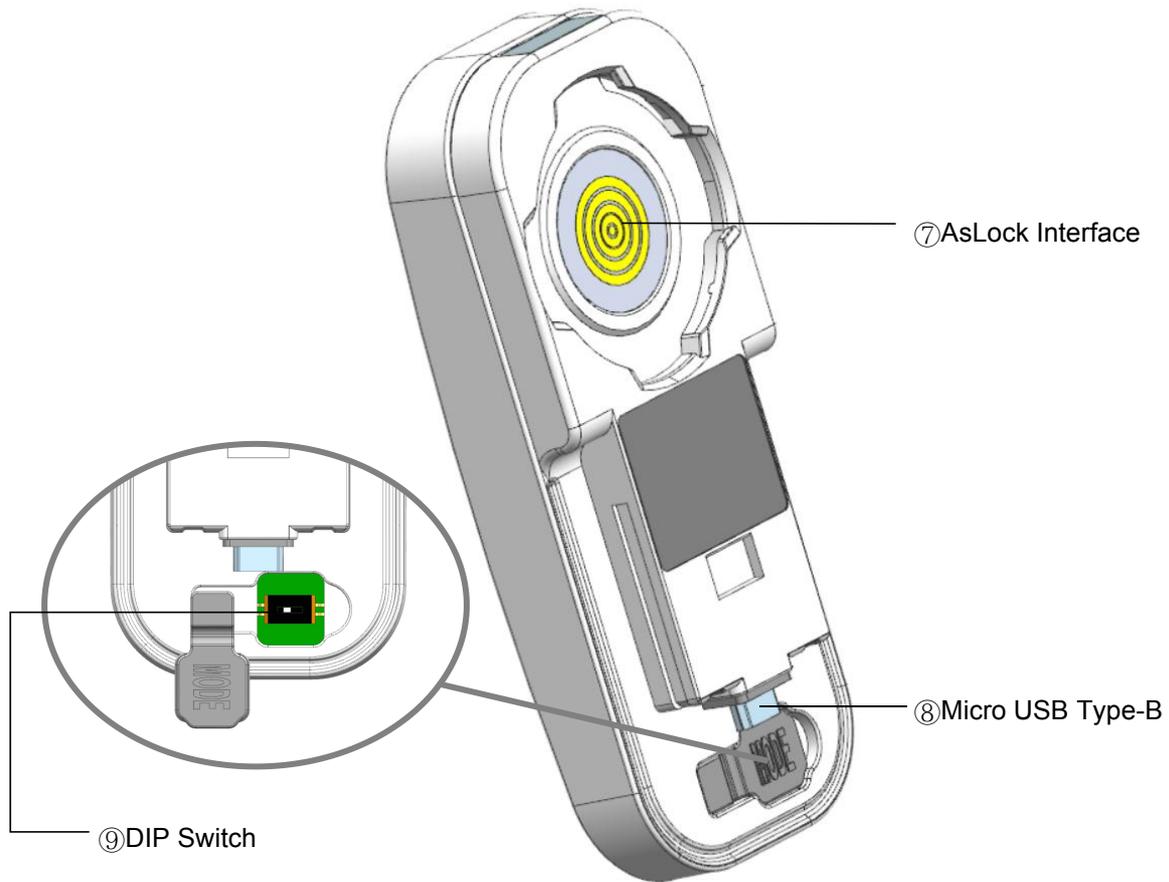


FIG. 2-2 Appearance Indication (Back)

(1) Power Button

- Power on/ off

Press and hold the power button over 2 seconds, the blue and green LED blinks and the device starts.

When the device is on, press and hold the power button over 2 seconds to shut down.

- Wake the device

Press the power button to wake up the product from sleep mode.

- Show battery level

Press it at sleep/work status to display the current remaining battery power via LED

(2) Reset button

- Press the reset button to force the product to shut down.

(3) Charging Indicator

- It indicates the charging status of the device.

Running status		LED status
Connected with a USB charging cable (Regardless of power on/off)	Charging	Red on
	Fully charged	Green on

(4) Action Indicator

- It indicates the data transfer status and the connection status with AsReaders.

Running status	LED status
Power on (AsReader device disconnected)	Blue blinks
AsReader connected	Blue on
Data transferring	Blue blinks

(5) FW Update Indicator (Green)

- It blinks during firmware update of the AsBridge device.

(6) Battery Indicator

Actions	Battery Level	LED (White)			
		LED1	LED2	LED3	LED4
Press the Power button when the device is on.	Pour battery (lower than 10%)	Blinking fast	Off	Off	Off
	Level 1 (10%~30%)	On	Off	Off	Off
	Level 2 (30%~50%)	On	On	Off	Off
	Level 3 (50%~70%)	On	On	On	Off
	Level 4 (70%~100%)	On	On	On	On

- It indicates the battery level of the device.

(7) AsLock Interface

- The device can be charged with the USB charging cable and the Gender supplied with the device.

- Data communication interface

Through the USB charging cable and the Gender accessory included with the AsBridge product, the AsBridge device can be connected to a PC and used as a U-disk.

(8) Micro USB Type-B Interface

- It is used to connect ASR-R202G devices.

3 Basic Operations

- **Power on/off**

Long press the power button of the device for 2 seconds to switch it on and off.

This product has no buzzer and vibrator, so the product does not have any buzzer or vibration indication. The blue light flashes when the device is turned on.

- **Battery Level indication**

When the device is on, press the power button, then the 4 charging LED indicators will show the current power.

- **Power charging**

When using the device for the first time or if it has been stored for a long period of time, please fully charge the battery of this device before use.

While charging the battery of this device, the battery indicator will be red during charging and change to green when fully charged. (See [FIG. 2-1 Appearance Indication \(Front\)](#)-③.)

When charging this device, please use the 5V/1A charging adapter.

The battery charging time for this device is about 2.5 hours when the remaining battery level is zero (for the above charging adapter).

 **Caution**

Do not charge the device with a power adapter other than 5V since this may cause a malfunction and is not covered by the warranty.



※ When the device is physically connected to the ASR-R202G device or the ASR-L251G device, it can also be charged at the same time as the other device is charged.

- **Reset**

Press the Reset button on the AsBridge device (see [FIG. 2-1 Appearance Indication \(Front\)-②](#)) to reset the device. This operation is only equivalent to re-plugging the battery then restarting the device. It will not affect the setting of any product parameters. Nor will it delete any barcode and RFID tag data stored in the device.

- **Sleep**

Under what conditions the device will go to the Sleep mode:

- After the device is turned on, if no operation is performed on it within the set sleep time, (Where to set this time, see [9 How to Set AsBridge via Configuration File](#)), the device enters the Sleep mode.

How to wake up:

- When the power button is pressed, the AsBridge device will be awakened immediately.
- AsBridge is awakened as soon as it receives any data returned from AsReader.

Mode Indication:

- When the device enters the Sleep mode, the blue LED goes off.
- When the device is awakened from the Sleep mode, the blue LED indicator is awakened (blinks or stays on).

4 Working Modes and Supporting AsReaders

4.1 Working Modes

The product has two working modes, some need to be switched by setting the DIP switch, as shown in [FIG. 2-2 Appearance Indication \(Back\)](#)-⑨DIP Switch. The device must be restarted to take effect after the DIP switch is toggled.

- Buffer mode

DIP switch: ON

This mode can cache the scanned barcode and RFID data into the memory of the AsBridge device. It meets the needs of the scene where it is not convenient to take a mobile phone.

- U-disk mode

Ignore the DIP switch.

This mode allows the device to be used as a U-disk. With this mode, you can use the computer to read the data scanned during the buffer mode stored in the internal memory of the AsBridge device.

No matter whether the device is turned on or not, no matter what state the dialing switch is in, as long as the device is connected to the PC, it can be identified as a U-disk by the PC.

4.2 Supporting AsReaders

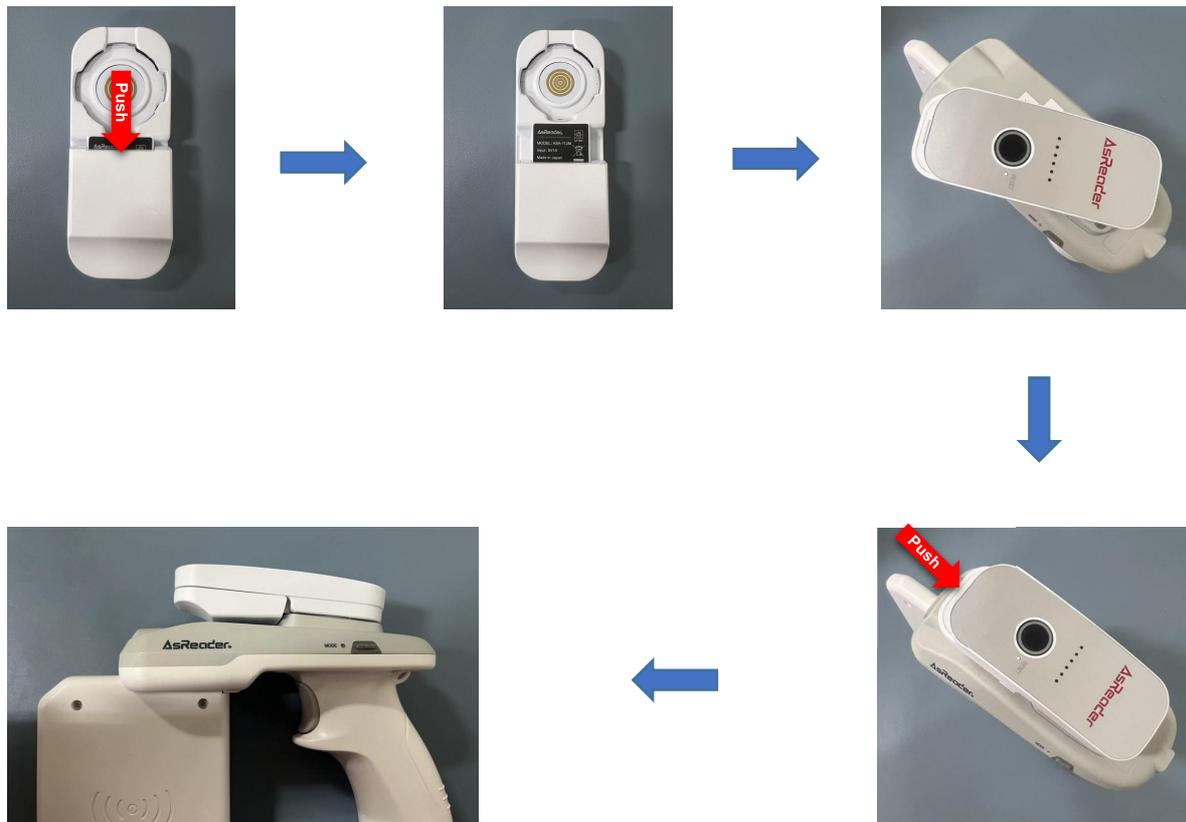
This product currently supports to use with ASR-R202G and ASR-L251G device.

5 Use with ASR-L251G



FIG. 5-1 Combination with ASR-L251G (old design)

For ASR-L251G V2, To work with a 251V2 device, push the protective cover of the AsBridge a little before installing. See below.



Operation steps:

1. Put the AsReader configuration file into the AsBridge internal memory via U-disk mode (For details, see [7 U-disk Mode](#)). About the configuration file format for ASR-L251G, see [Appendix1-Configuration File Format for ASR-L251G](#).

You can set parameters of the ASR-L251G running in Buffer mode through the configuration file.

2. DIP switch to ON.
3. Restart AsBridge.
4. AsReader power on.
5. Combine AsBridge and AsReader. If connect successfully, the Blue LED on AsBridge will remain be on instead of blinking.
6. Start to read by pressing the trigger button of the AsReader. The read data will be saved to the "ASR-L251G_x.hex" file ("x" is serial number1,2,3...) in device memory.
 - ※ When a duplicate RFID tag is read, the AsReader does not beep, but the AsBridge blue LED blinks, and the tag data will NOT be stored in the AsBridge memory's "ASR-L251G_x.hex" file. When a new tag is read, the AsReader beeps and the tag data is stored on the AsBridge internal memory.
 - ※ For barcode data, the duplicate data processing is not applied.

Press the mode button of the AsReader to change mode between Barcode and RFID.

7. Use the Windows demo application "ReadBinaryFile" to decode the contents of the "ASR-L251G_x.hex" file.

Step 3, 4, 5 in any order.

To ensure that the time attribute of the data files created in buffer mode are correct, it can be set via the configuration file. (For details, see [10 How to set the AsBridge Local Time via Configuration File.](#))

6 Use with ASR-R202G



FIG. 6-1 Combination with ASR-R202G (old design)

Operation steps:

1. Put the AsReader configuration file into the AsBridge internal memory via U-disk mode. About the configuration file format for ASR-R202G, see [Appendix 2-Configuration File Format for ASR-R202G](#).
You can set parameters of the ASR-R202G running in Buffer mode through the configuration file.
 2. DIP switch to on.
 3. Restart AsBridge.
 4. AsReader power on.
 5. Combine AsBridge and AsReader. If connect successfully, the Blue LED on AsBridge will remain be on instead of blinking.
 6. Start to read by pressing the trigger button of the AsReader. The read data will be saved to the "ASR-R202G_x.hex" file ("x" is serial number1,2,3...) in device memory.
 7. Use the Windows demo application "ReadBinaryFile" to decode the contents of the "ASR-R202G_x.hex" file.
Step 3, 4, 5 in any order.
- ※ To ensure that the time attribute of the data files created in buffer mode are correct, it can be set via the configuration file. (For details, see [10 How to set the AsBridge Local Time via Configuration File](#).)

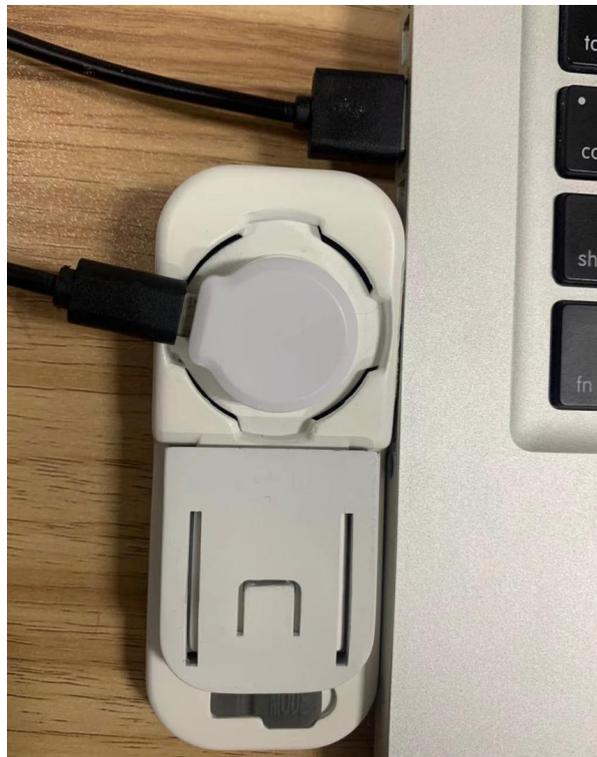
7 U-Disk Mode

What's the use of U-disk mode?

- In U-disk mode, the configuration files of the AsReader device can be placed in the memory of the AsBridge device. In this way, when using buffer mode, the AsBridge device will automatically configure some parameters of the AsReader devices, such as the on/off state of the buzzer or vibrator.
- In U-disk mode, you can find the data files generated in the buffer mode.

Operation steps:

1. Connect AsBridge to PC as shown below. Once connected, the charging indicator of the AsBridge device turns red.
 - ※ Ignore the DIP switch, and the AsBridge does not need to be turned on.



2. You will see a new disk message on your computer. If it's a Mac, sometimes it takes a few more seconds.

8 How to Update Firmware via Configuration File

- How to put the configuration file into AsBridge:

Put the configuration file into the AsBridge internal memory via U-disk mode. About the configuration file format, see Appendix 3-Configuration File Format for AsBridge.

- **Firmware update file name and format**

AsBridgeX_X_X.bin (X_X_X indicates the firmware version).

- **Configuration file name and format**

Local_Parameter.txt

- **Configuration file content and format**

UpdateIndicate:0

- **How to trigger the firmware update**

- 1) Change the value of the UpdateIndicate parameter in the configuration file to 1 (the default is 0).
- 2) Switch the AsBridge device to the Buffer mode (that is, turn the DIP switch of the device to ON).
- 3) Restart the AsBridge device (Note: it must be started in Buffer mode).
- 4) At this time, the green light (FW update LED indicator) and the four white lights of the device should blink rapidly to indicate that the device is in the process of firmware update.
- 5) Once the update is complete, the AsBridge devices will automatically shut down. Also, the value of the UpdateIndicate parameter in the configuration file is automatically returned to 0.

- **How to check whether the device firmware is updated successfully**

After the firmware is updated, a FirmwareVersion.txt file is automatically generated in the AsBridge memory. This file contains the current firmware version, for example, FirmwareVersion:1.1.3.

9 How to Set AsBridge via Configuration File

- **Configuration file name and format**

Local_Parameter.txt (see Appendix 3-Configuration File Format for AsBridge)

- **Configuration file content and format**

SleepTime(0~1800)s:300

AutoOffTime(0~300)s:300

- **How to Set**

The default value for both the parameters is 300 seconds. To modify them, simply change the value after the colon of the parameters.

- **When to perform parameter settings**

Each time the AsBridge device is powered on in the Buffer mode, the two parameters are set according to the values in this configuration file.

10 How to set the AsBridge Local Time via Configuration File

- **Configuration file name and format**

Local_Parameter.txt (see Appendix 3 Configuration File Format for AsBridge)

- **Configuration file content and format**

LocalTimeIndicate:0(2022/10/18-14:23:00)

- **How to Set the Local Time:**

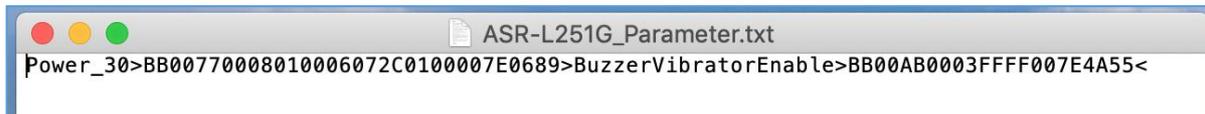
- 1) Change the value of the LocalTimeIndicate parameter in the configuration file to 1 (the default is 0). Also, change the date and time in parentheses following the parameter name to the time you want to set.
- 2) Set the AsBridge device to the Buffer mode (that is, turn the DIP switch of the device to ON).
- 3) Restart the device to complete the setting of the local time of the device (Note: it must be started in Buffer mode, that is, the DIP switch is ON). After the setting is complete, the parameter value of LocalTimeIndicate in the configuration file is automatically restored to 0. The time in the configuration file remains the time of the last modification.

11 Troubleshooting

- **Power indicator does not indicate power.**
 - Check the DIP switch to make sure it is in the ON state.
- **The green light is on.**
 - Check the DIP switch to make sure it is in the ON state.
- **The ASR-R202G device cannot be connected.**
 - Check the DIP switch to make sure it is in the ON state.
- **The ASR-L251G device cannot inventory.**
 - Check the DIP switch to make sure it is in the ON state.

Appendix 1- Configuration File Format for ASR-L251G

The following figure is a configuration file. You can refer to it.



- **Configuration file name and format: ASR-L251G_Parameter.txt**

- **File content format:**

For example:

Power=30dBm,
and Buzzer=On, Vibrator=On,
and Link Profile=3.

File content:

Power_30>BB00770008010006072C0100007E0689>BuzzerVibratorEnable>BB00
AB0003FFFF007E4A55>LinkProfile_3>BB007700080100600B030000007E04AC<

Or you can write as below (Omit the green parts):

>BB00770008010006072C0100007E0689>>BB00AB0003FFFF007E4A55> >BB00
7700080100600B030000007E04AC<

※ Changing the blue part of the above example changes the value of the parameter (Refer to the tables of [Parameter Value Settings](#)), while the green part is just for notation. The orange part is the structure of the configuration file, begin with ">" and end with "<".

※ The blue parts must be capital letters.

- **Parameter Value Settings**

Power Value

Power value	Hex data
30	BB00770008010006072C0100007E0689
29	BB0077000801000607220100007EC921
28	BB0077000801000607180100007E8361
27	BB00770008010006070E0100007E4ABE
26	BB0077000801000607040100007E0C10
25	BB0077000801000607FA0000007E8A5A
24	BB0077000801000607F00000007ECCF4

23	BB0077000801000607E60000007E052B
22	BB0077000801000607DC0000007E4F6B
21	BB0077000801000607D20000007E80C3
20	BB0077000801000607C80000007EC237
19	BB0077000801000607BE0000007E1234
18	BB0077000801000607B40000007E549A
17	BB0077000801000607AA0000007E9F68
16	BB0077000801000607A00000007ED9C6
15	BB0077000801000607960000007E18AD
14	BB00770008010006078C0000007E5A59
13	BB0077000801000607820000007E95F1
12	BB0077000801000607780000007EEC09
11	BB00770008010006076E0000007E25D6
10	BB0077000801000607640000007E6378
9	BB00770008010006075A0000007EA03E
8	BB0077000801000607500000007EE690
7	BB0077000801000607460000007E2F4F
6	BB00770008010006073C0000007E7467
5	BB0077000801000607320000007EBBCF

Buzzer and Vibrator

Buzzer and Vibrator State	Hex data
Buzzer on & Vibrator on	BB00AB0003FFFF007E4A55
Buzzer on & Vibrator off	BB00AB0003FF00007E8536
Buzzer off & Vibrator on	BB00AB000300FF007E01F6
Buzzer off & Vibrator off	BB00AB00030000007ECE95

Session and Session Flag

Session	Session Flag	Hex data
S0	Only A	BB0077000801000009000000007ED224
S1	Only A	BB0077000801000009200000007EDA90
S2	Only A	BB0077000801000009400000007EC34C
S3	Only A	BB0077000801000009600000007ECBF8
S0	Only B	B0077000801000009100000007ED67E
S1	Only B	BB0077000801000009300000007EDECA
S2	Only B	BB0077000801000009500000007EC716
S3	Only B	BB0077000801000009700000007ECFA2
Any one	A or B	BB0077000801000509030000007E4551

Link Profile

Link Profile	Hex data
0	BB007700080100600B000000007EEA7E
1	BB007700080100600B010000007E402F
2	BB007700080100600B020000007EAEFD
3	BB007700080100600B030000007E04AC

Inventory Time

Inventory Time (ms)	Hex data
100	BB0077000801000603640000007E65D9
200	BB0077000801000603C80000007EC496
300	BB00770008010006032C0100007E0028
400	BB0077000801000603900100007EA53D

Idle Time

Idle Time (ms)	Hex data
100	BB0077000801000703640000007EDDB8
200	BB0077000801000703C80000007E7CF7

300	BB00770008010007032C0100007EB849
400	BB0077000801000703900100007E1D5C

Sleep Time

Sleep Time (sec)	Hex data
60	BB00E90002003C7E00DD
300	BB00E90002012C7E349E
1800	BB00E9000207087E4C1C

Auto Off Time

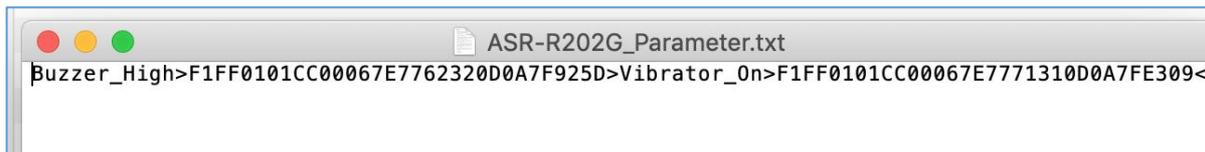
Auto Off Time (sec)	Hex data
60	BB00E70002003C7E807E
300	BB00E70002012C7EB43D
1800	BB00E7000207087ECCBF

Threshold

Threshold (0.1dBm)	Hex data
50	BB0077000801002C0B320000007E2D94
60	BB0077000801002C0B3C0000007EE23C
70	BB0077000801002C0B460000007EB914

Appendix 2- Configuration File Format for ASR-R202G

The following figure is a configuration file. You can refer to it.



- Configuration file name and format: ASR-R202G_Parameter.txt
- File content format:

For example:

Buzzer=On,
and Vibrator=On.

File content:

Buzzer_High>F1FF0101CC00067E7762320D0A7F925D>Vibrator_On>F1FF0101C
C00067E7771310D0A7FE309<

Or you can write as below (Omit the green parts):

>F1FF0101CC00067E7762320D0A7F925D>>F1FF0101CC00067E7771310D0A7F
E309<

※ Changing the blue part of the above example changes the value of the parameter (Refer to the tables of [Parameter Value Settings](#)), while the green part is just for notation. The orange part is the structure of the configuration file, begin with ">" and end with "<".

※ The blue parts must be capital letters.

- **Parameter Value Settings**

Buzzer

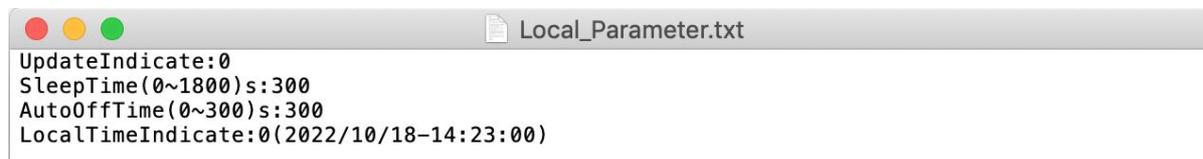
Buzzer State	Hex data
High	F1FF0101CC00067E7762320D0A7F925D
Low	F1FF0101CC00067E7762310D0A7F0981
Off	F1FF0101CC00067E7762300D0A7F7F35

Vibrator

Vibrator State	Hex data
On	F1FF0101CC00067E7771310D0A7FE309
Off	F1FF0101CC00067E7771300D0A7F95BD

Appendix 3-Configuration File Format for AsBridge

The following figure is a configuration file. You can refer to it.



```
UpdateIndicate:0
SleepTime(0~1800)s:300
AutoOffTime(0~300)s:300
LocalTimeIndicate:0(2022/10/18-14:23:00)
```

- **Configuration file name and format: Local_Parameter.txt**
- **File content format:**

For example:

Check the firmware update file and perform the firmware update.

Sets the Sleep time of the AsBridge device to 300 seconds;

Sets the Auto-Off time of the AsBridge device to 300 seconds;

Sets the local time of the AsBridge device to 2024/1/1 00:00:00

File content:

```
UpdateIndicate:1
SleepTime(0~1800)s:300
AutoOffTime(0~300)s:300
LocalTimeIndicate:1(2024/1/4-00:00:00)
```

※ Changing the blue part of the above example changes the value of the parameter (Refer to the tables of [Parameter Value Settings](#)), while the green part is just for notation. The orange part is the structure of the configuration file, begin with ">" and end with "<".

※ The blue parts must be capital letters.

- **Parameter Value Settings**

UpdateIndicate

UpdateIndicate	Value
To update firmware	1
Do not update firmware	0

LocalTimeIndicate

LocalTimeIndicate	Value
To change local time	1
Do not change local time	0

Appendix 4- Specifications

Model		ASA-112M
Battery	Battery capacity	Built-in rechargeable lithium-ion battery 250mAh Built-in Button battery 11mAh
	Continuous operation time	> 5 hours
	Power source	USB cable, Gender ASA-017C
	Power input	5V/1A
	Charging time	About 2.5 hours (Built-in battery)
Key input		Power button, Reset button DIP switch (On: Buffer mode; Off: Not supported.)
Communication	Interface	AsLock Micro USB Type-B
Memory		4GB
Appearance	Dimensions(L)x(W)x(H)	99.1x40.8x17.7mm
	Weight (with Battery)	57g
	Material	PC
	Case color	White
	LED	[Charging indicator] (Red/ Green) Red (in charging) Green (charging completely) [FW update indicator] (Green) Be in firmware updating (Green blinks) [Action indicator] (Blue) Power on (Blue blinks) Not connected to AsReader (Blue blinks) Connected to AsReader (Blue lights on) Data transferring (Blue blinks) [Battery indicator] (White*4) Press power button (Lights the appropriate number of LEDs for one second) Be in firmware updating (blinks with the green LED)
Environment	Operation environment	Temperature: -10°C~45°C Humidity: 10~90 %RH
	Charging environment	Temperature: 0°C~45°C Humidity: 10~90 %RH
	Storage temperature	Temperature: -20°C~45°C Humidity: 10~90 %RH
	IP rate	IP 54
	Anti-drop	(Six-sided, 4 edge, once each) 1.5m
Certificates		TBD
Supporting OS		Windows

**AsBridge
ASA-112M**

User Manual

2024/1/8 1.0

Asterisk Inc.

Osaka Office

Tel: +81 (0) 50 5536 1185

Shin-Osaka Dainichi Bldg. 201, 5-6-16 Nishinakajima, Yodogawa-ku, Osaka-city, Osaka,
532-0011 JAPAN