

WIFI/Bluetooth Interface Setting Manual
POS Thermal Receipt Printer
A8 PRIME/STANDARD



User Manual

(Revision 1.0.3)

2021-01-05

www.POSBANK.com

Table of Contents

1. Manual Information	3
2. Product Specification	3
3. Configuration	4
3-1 Wi-Fi Station Setting	4
3-2. Bluetooth Classic Setting.....	8
3-3. Bluetooth Classic+BLE Setting	10
3-4. Firmware Update.....	12
4. Factory Reset	16

1. Manual Information

This manual provides the information how to use WIFI/Bluetooth interface.

We at POSBANK maintain ongoing efforts to enhance and upgrade the functions and quality of all our products.

In following, product specifications and/or user manual contents may be changed without prior notice.

2. Product Specification

- WIFI :
 - 802.11 b/g/n (802.11n up to 150MBps) / 2.4 ~ 2.5Ghz
 - Mode : SoftAP / Station
 - Security : WPA/WPA2/WPA2-Enterprise/WPS
 - Encryption : AES/RSA/ECC/SHA
 - Firmware Upgrade : Wireless OTA (Web Page)
 - Network Protocol : TCP/UDP/HTTP/ICMP
- Bluetooth : Bluetooth Classic 2.0 / SPP & RFCOMM Protocol

3. Configuration

3-1 Station Setting (When you see AP of "A8_PRINTER_XXXXXX" in WIFI networks listed on mobile or other devices, you can ignore below procedures 1~5.)

- 1) Press and hold "Feed" button and press "Power" button once.
- 2) Keep pressed "Feed" button until "Setting Mode" is printed as below.
- 3) After below content is printed, press "Feed" button 7 times and select "Wireless Mode".

Setting Mode

1. Step by Step
2. Serial Baudrate
3. Serial Parity-bit
4. Serial Handshaking
5. USB Mode
6. Ethernet DHCP Mode
7. Wireless Mode
8. Error Sound
9. External Buzzer
10. Print Speed
11. Print Density
12. Auto Cut
13. Auto Cut Mode
14. Code Page
15. Int' | Character Set
16. Font System
17. Paper Type
18. Pater Width
19. Black Mark Mode
20. Auto Load Mode
21. Sensing Level

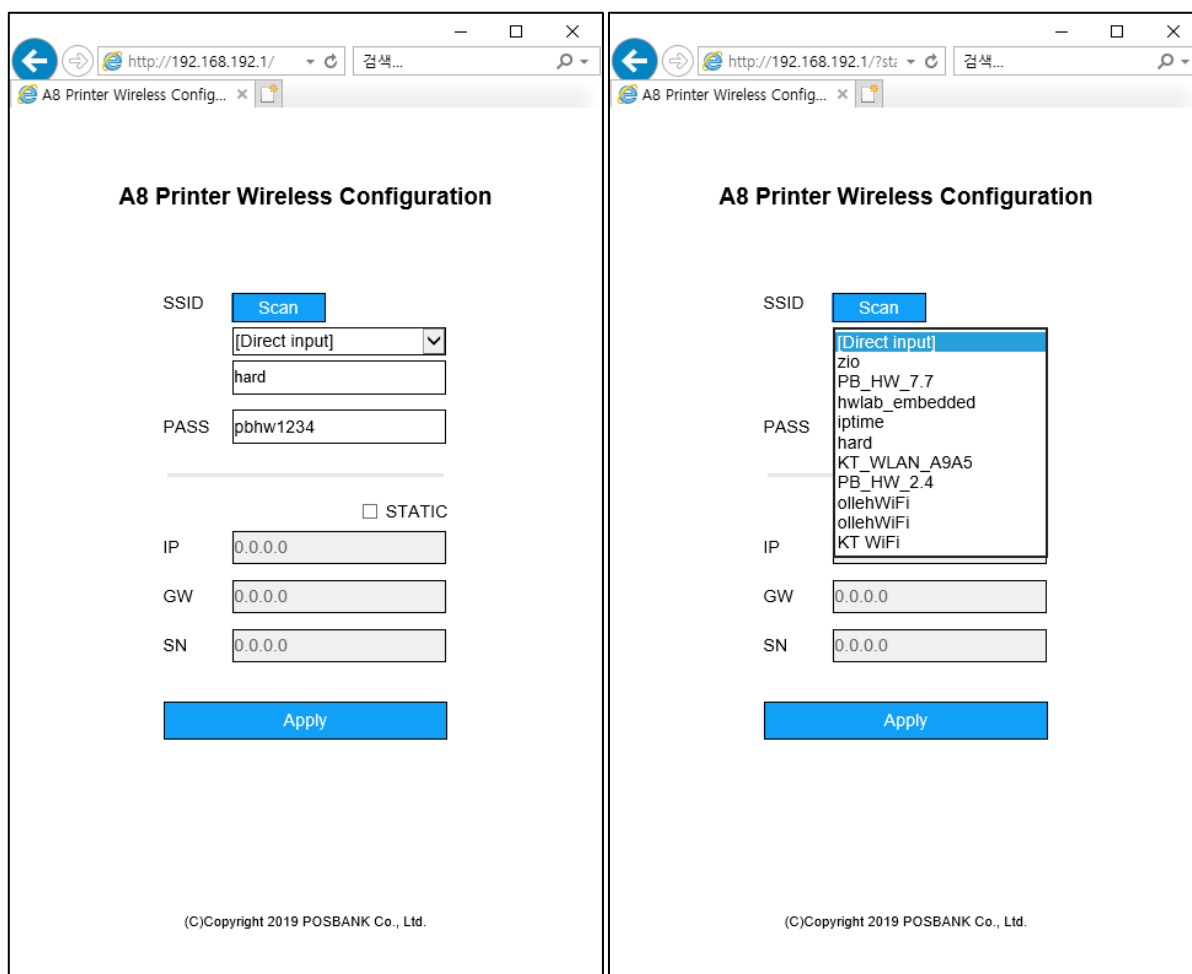
- 4) After below content is printed, press "Feed" button once, select "WiFi SoftAP".

Setting the Wireless Mode

1. WiFi SoftAP *
2. WiFi Station
3. Bluetooth Classic
4. Bluetooth Classic+BLE

- 5) When you search WIFI on the PC which WiFi Dongle is installed, you can see AP which is written as "A8_PRINTER_XXXXXX".

- 6) Open the Web browser, type the IP address <http://192.168.192.1> and load setup page as below.



A8 Printer Wireless Configuration

SSID [Direct input]

PASS

☐ STATIC

IP

GW

SN

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A8 Printer Wireless Configuration

SSID [Direct input]

PASS

☐ STATIC

IP

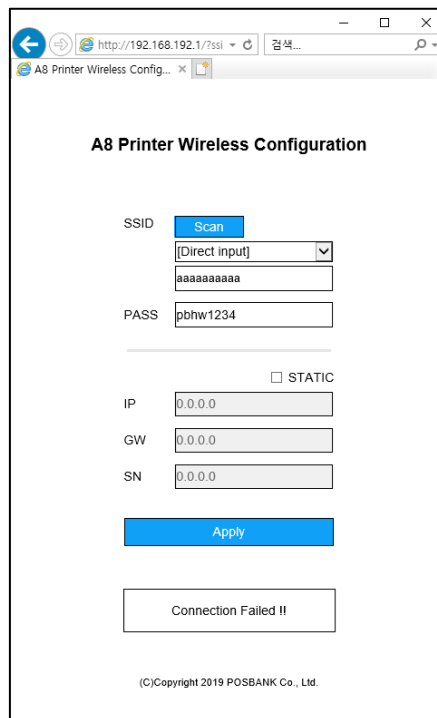
GW

SN

(C)Copyright 2019 POSBANK Co., Ltd.

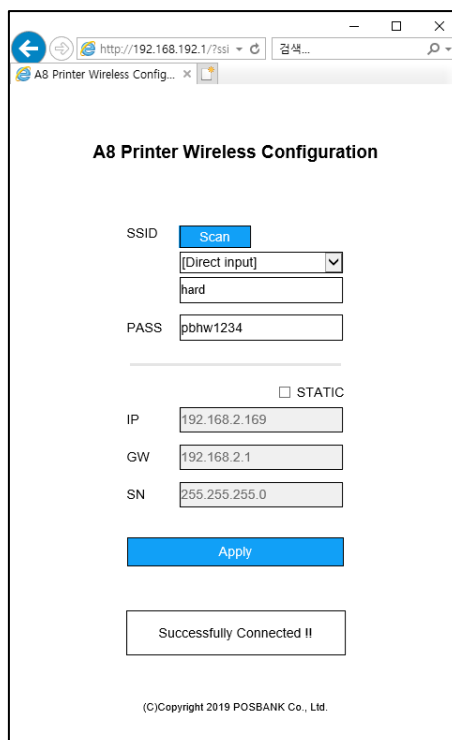
- 7) When you press "Scan" from the SSID list, 10 WIFI AP strongly sensed around you is searched within 5 seconds and registered to Combo Box. If you click Combo Box and select SSID of AP which you want to access and enter "PASS" and download IP address information with DHCP server, uncheck "STATIC" and enter "IP/GW/SN".
- 8) If you access by entering SSID directly, select "[Direct Input]" on Combo Box and enter "SSID" and "PASS" of AP. If you download IP address information with DHCP server, uncheck "STATIC" and enter "IP/GW/SN".
- 9) After inputting all items, click "Apply".

10) "Connection Failed!!" message pops up as below if you fail to access AP.



The screenshot shows a web browser window with the URL <http://192.168.192.1/?ssl>. The page title is "A8 Printer Wireless Configuration". The SSID section has a "Scan" button, a "[Direct input]" dropdown menu, and a text field containing "aaaaaaaa". The PASS section has a text field containing "pbhw1234". There is an unchecked checkbox for "STATIC". The IP, GW, and SN fields all contain "0.0.0.0". Below the fields is a blue "Apply" button. At the bottom, a message box displays "Connection Failed !!". The footer text is "(C)Copyright 2019 POSBANK Co., Ltd."

11) When the connection is succeeded, "Successfully Connected!!" message is displayed as below and it works as "WiFi Station" mode from next time.



The screenshot shows the same web browser window with the URL <http://192.168.192.1/?ssl>. The page title is "A8 Printer Wireless Configuration". The SSID section has a "Scan" button, a "[Direct input]" dropdown menu, and a text field containing "hard". The PASS section has a text field containing "pbhw1234". There is an unchecked checkbox for "STATIC". The IP, GW, and SN fields contain "192.168.2.169", "192.168.2.1", and "255.255.255.0" respectively. Below the fields is a blue "Apply" button. At the bottom, a message box displays "Successfully Connected !!". The footer text is "(C)Copyright 2019 POSBANK Co., Ltd."

12) When you turn off and press "Feed" button and then press "Power" button, you can see the setting as below.

A8 PRIME


(Model : PB-A8 V1.2)
F/W P2.06-CAP06[2020/10/20]

.....

[USB Mode] -----> Actual USB
 [Paper Width] -----> 80mm
 [Paper Type] -----> TF50KS-E2D
 [Black Mark Mode] -----> Disable
 [Auto Load Mode] -----> Disable
 [Sensing Level] -----> Level 7
 [Mark Range] -----> 169mm

----- Ethernet Configuration -----

[DHCP mode] : Disable (Static IP)
 [Static IP] : 192.168.10.10
 [Gateway IP] : 192.168.10.1
 [Subnet Mask] : 255.255.255.0
 [Local Port] : 9100
 [Inact. Time] : 0
 [MAC Address] : 60-04-17-30-00-00



----- Wireless Configuration -----

[F/W Version] : 3.3_3.3.1
 [Mode] : WiFi Station
 [SSID] : hard
 [Password] : pbhw1234
 [DHCP Mode] : Enable (Dynamic IP)
 [IP Address] : 192.168.2.169
 [Gateway IP] : 192.168.2.1
 [Subnet Mask] : 255.255.255.0
 [DNS Server 1] : 0.0.0.0
 [DNS Server 2] : 0.0.0.0
 [MAC Address] : 24-6F-28-42-DA-90
 [Channel] : 1
 [TxPower] : 19.5dBm
 [RSSI] : 0dBm

If you want to continue
Please press the FEED button

3-2. Bluetooth Classic Setting

- 1) Press and hold "Feed" button and press "Power" button once.
- 2) Keep pressed "Feed" button until "Setting Mode" is printed as below.
- 3) After below content is printed, press "Feed" button 7 times and select "Wireless Mode".

Setting Mode

1. Step by Step
2. Serial Baudrate
3. Serial Parity-bit
4. Serial Handshaking
5. USB Mode
6. Ethernet DHCP Mode
7. Wireless Mode
8. Error Sound
9. External Buzzer
10. Print Speed
11. Print Density
12. Auto Cut
13. Auto Cut Mode
14. Code Page
15. Int' | Character Set
16. Font System
17. Paper Type
18. Pater Width
19. Black Mark Mode
20. Auto Load Mode
21. Sensing Level

- 4) After below content is printed, press "Feed" button 3 times and select "Bluetooth Classic".

Setting the Wireless Mode

5. WiFi SoftAP *
6. WiFi Station
7. Bluetooth Classic
8. Bluetooth Classic+BLE

- 5) When you turn off A8 Printer and turn on by pressing and holding "Feed" button, you can see the configured Bluetooth information as below.

A8 PRIME


(Model : PB-A8 V1.2)
F/W P2.06-CAP06[2020/10/20]

.....

[USB Mode] -----> Actual USB
 [Paper Width] -----> 80mm
 [Paper Type] -----> TF50KS-E2D
 [Black Mark Mode] -----> Disable
 [Auto Load Mode] -----> Disable
 [Sensing Level] -----> Level 7
 [Mark Range] -----> 169mm

----- Ethernet Configuration -----

[DHCP mode] : Disable (Static IP)
 [Static IP] : 192.168.10.10
 [Gateway IP] : 192.168.10.1
 [Subnet Mask] : 255.255.255.0
 [Local Port] : 9100
 [Inact. Time] : 0
 [MAC Address] : 60-04-17-30-00-00



----- Wireless Configuration -----

[F/W Version] : 3.3_3.3.1
 [Mode] : Bluetooth Classic
 [Device Name] : A8_PRINTER_#####
 [PIN-Code] : 0000
 [MAC Address] : 24-6F-28-42-DA-90
 [Auth] : 2
 [RSSI] : -42dBm

If you want to continue
Please press the FEED button

3-3. Bluetooth Classic+BLE Setting

- 1) Press and hold "Feed" button and press "Power" button once.
- 2) Keep pressed "Feed" button until "Setting Mode" is printed as below.
- 3) After below content is printed, press "Feed" button 7 times and select "Wireless Mode".

Setting Mode

1. Step by Step
2. Serial Baudrate
3. Serial Parity-bit
4. Serial Handshaking
5. USB Mode
6. Ethernet DHCP Mode
7. Wireless Mode
8. Error Sound
9. External Buzzer
10. Print Speed
11. Print Density
12. Auto Cut
13. Auto Cut Mode
14. Code Page
15. Int' | Character Set
16. Font System
17. Paper Type
18. Pater Width
19. Black Mark Mode
20. Auto Load Mode
21. Sensing Level

- 4) After below content is printed, press "Feed" button 4 times and select "Bluetooth Classic+BLE".

Setting the Wireless Mode

1. WiFi SoftAP *
2. WiFi Station
3. Bluetooth Classic
4. Bluetooth Classic+BLE

- 5) When you turn off A8 Printer and turn on by pressing and holding "Feed" button, you can see the configured Bluetooth information as below.

A8 PRIME


(Model : PB-A8 V1.2)
F/W P2.06-CAP06[2020/10/20]

.....

[USB Mode] -----> Actual USB
 [Paper Width] -----> 80mm
 [Paper Type] -----> TF50KS-E2D
 [Black Mark Mode] -----> Disable
 [Auto Load Mode] -----> Disable
 [Sensing Level] -----> Level 7
 [Mark Range] -----> 169mm

----- Ethernet Configuration -----

[DHCP mode] : Disable (Static IP)
 [Static IP] : 192.168.10.10
 [Gateway IP] : 192.168.10.1
 [Subnet Mask] : 255.255.255.0
 [Local Port] : 9100
 [Inact. Time] : 0
 [MAC Address] : 60-04-17-30-00-00



----- Wireless Configuration -----

[F/W Version] : 3.3_3.3.1
 [Mode] : Bluetooth Classic+BLE
 [Device Name] : A8_PRINTER_#####
 [PIN-Code] : 0000
 [MAC Address] : 24-6F-28-42-DA-90
 [Auth] : 2
 [RSSI] : -42dBm

If you want to continue
Please press the FEED button

3-4. Firmware Update (When you see AP of "A8_PRINTER_XXXXXX" in WIFI networks listed on mobile or other devices, you can ignore below procedures 1~5)

- 1) Press and hold "Feed" button and press "Power" button once.
- 2) Keep pressed "Feed" button until "Setting Mode" is printed as below.
- 3) After below content is printed, press "Feed" button 7 times and select "Wireless Mode".

Setting Mode

1. Step by Step
2. Serial Baudrate
3. Serial Parity-bit
4. Serial Handshaking
5. USB Mode
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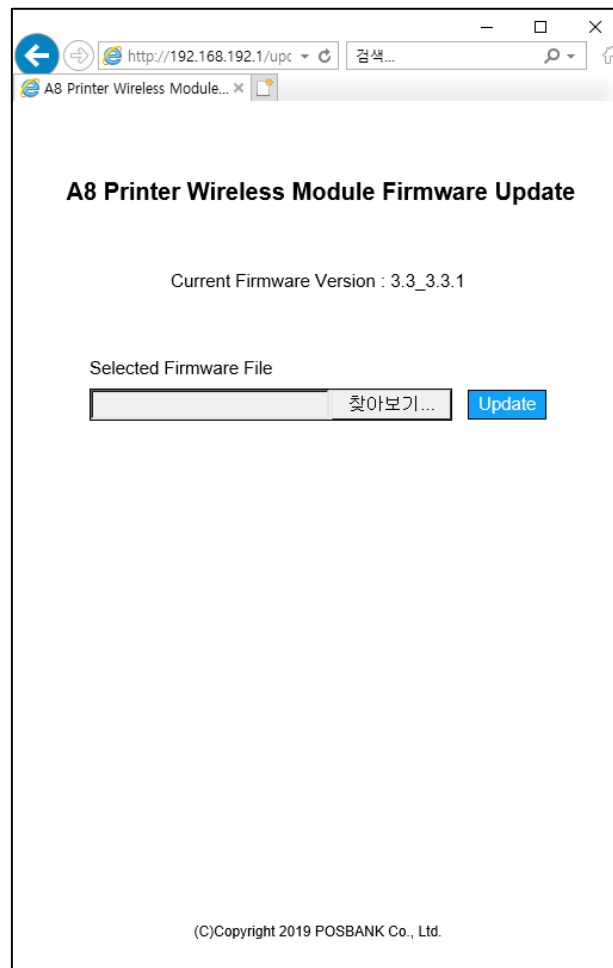
- 4) After below content is printed, press "Feed" button once and select "WiFi SoftAP".

Setting the Wireless Mode

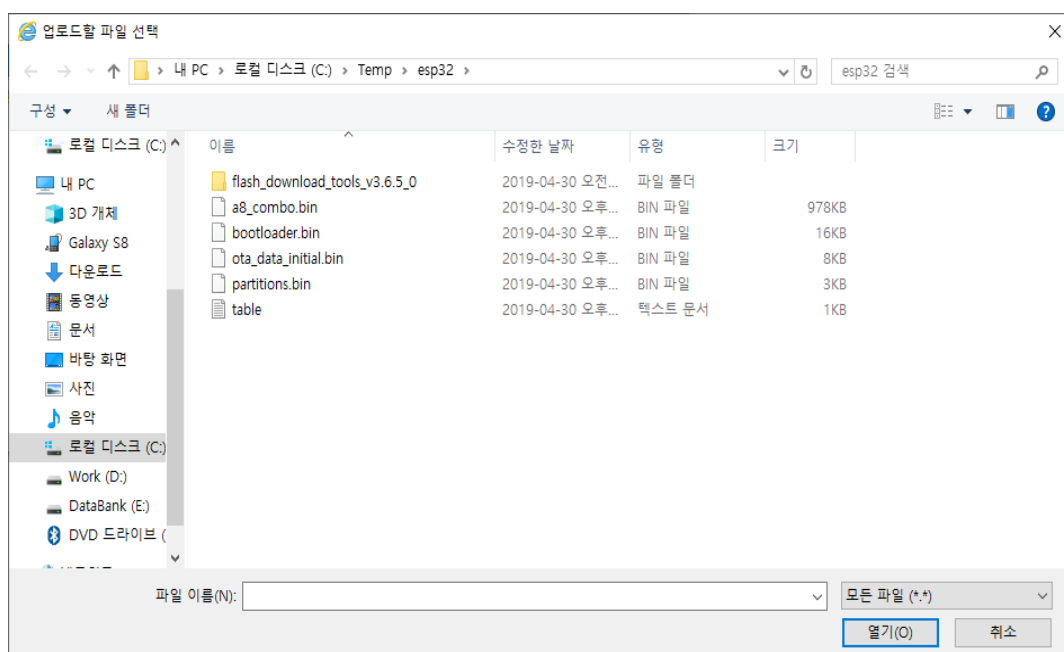
1. WiFi SoftAP *
2. WiFi Station
3. Bluetooth Classic
4. Bluetooth Classic+BLE

- 5) When you search WIFI on the PC which WiFi Dongle is installed, you can see AP which is written as "A8_PRIME_XXXXXX".

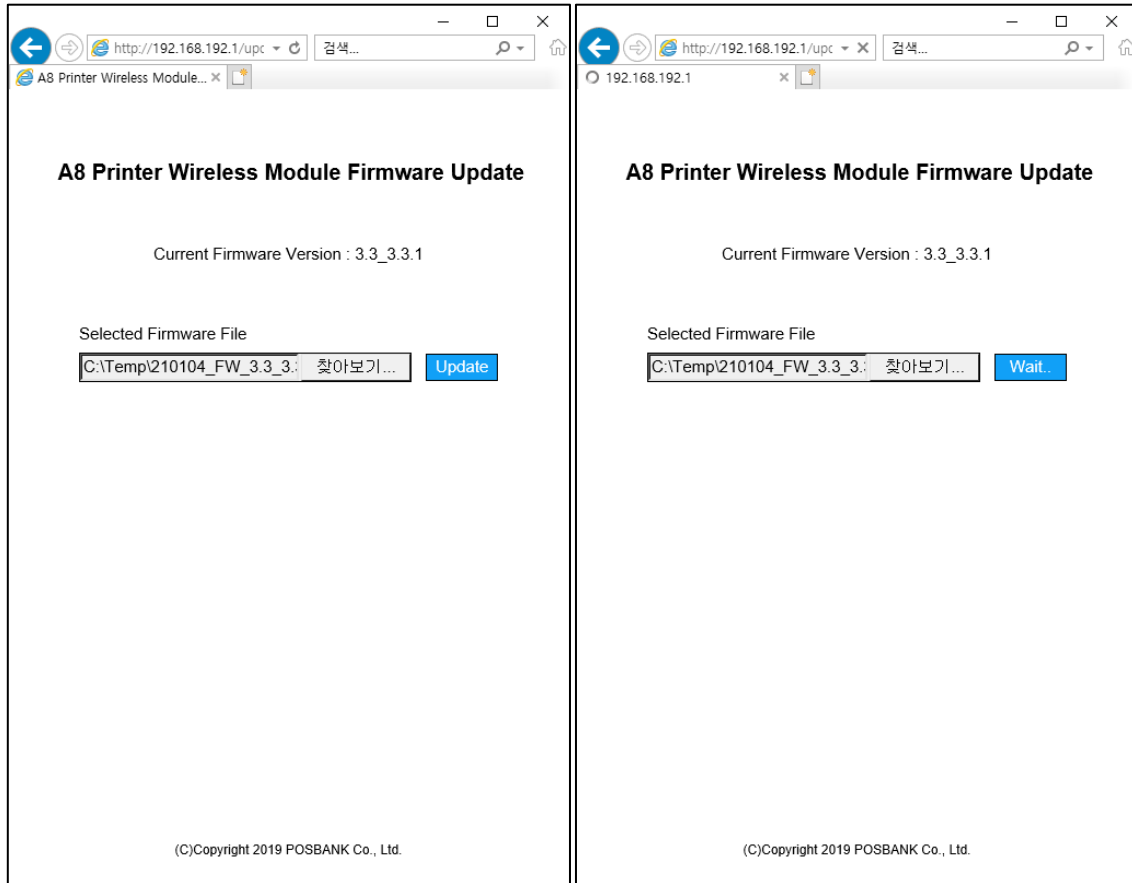
- 6) Open the Web browser, type the IP address <http://192.168.192.1/update> and load setup page as below.



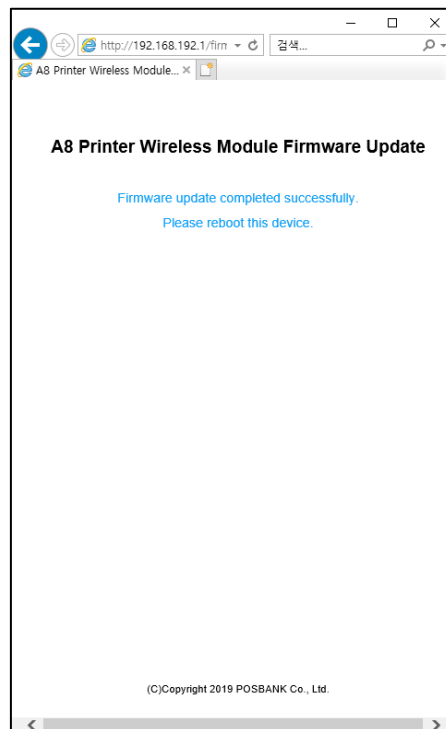
- 7) When you click the "Browse", files window is displayed as below.



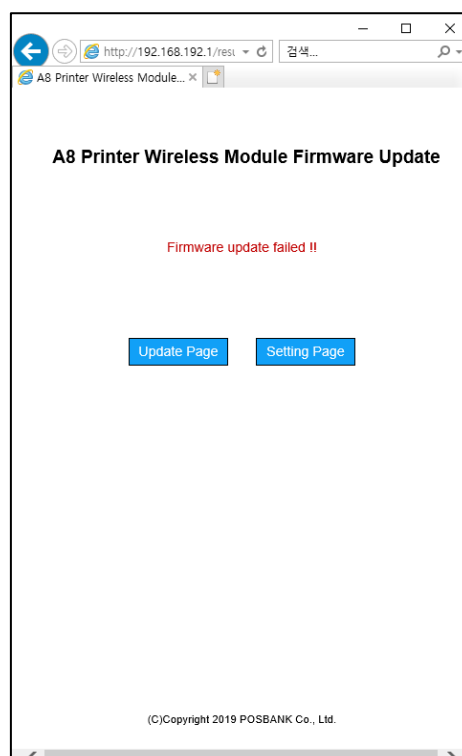
- 8) Select new Firmware file and click "open".
- 9) When you click "Update" after selecting Firmware file, the button is changed to "Wait" and wait until the firmware update is complete.



10) When the firmware update is complete successfully, below screen is displayed and restart the printer



11) If it is abnormal firmware file or problems occur during the update, below screen will be displayed and it will work with current firmware.



4. Factory Reset

- In the event of firmware failure for some reason, you can run it by factory firmware in the module which has by default.
- When you press "Power" button and "Feed" button for 2 seconds while A8 remains powered on, below message is printed and Factory Reset is performed when you press "Feed" button once and then restart. When you press "FEED" button twice, Factory Reset is cancelled.

ESP32 Module : WiFi + Bluetooth

1. Perform factory reset
Press the FEED button once.
2. Factory reset is not performed
Press the FEED button twice.

It will restart automatically

=====

- End -