

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



User Manual

(Revision 1.0.2)

2020-09-15

POSBANK®

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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".

- 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 <u>http://192.168.192.1</u> and load setup page as below.

A8 Printer Wireless Config.	- □ 8.192.1/ ▼ Ĉ 검색 × □	× د + ۵	- □ × 중 ④ @ http://192.168.192.1/?st: ▼ ♂ 점색 오 · @ A8 Printer Wireless Config × [*]	r
A8 Printer Wireless Configuration		A8 Printer Wireless Configuration		
SSID PASS IP GW SN	Scan [Direct input] hard pbhw1234 □ STATIC 0.0.0.0 0.0.0.0 0.0.0.0 0.0.0.0 Apply		SSID Scan Direct input Zio PB_HW_7.7 hwiab_embedded iptime hard KT_WLAN_A9A5 PB_HW_2.4 ollehWiFi ollehWiFi GW 0.0.0 SN 0.0.0 Apply	
(C)Copyright 2019 POSBANK Co., Ltd.		(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.

A8 Printer	– □ × ৪.192.1/?ssi + ৫) রেশ ০ + × ৗ
SSID	Scan [Direct input] aaaaaaaaaaa
PASS	pbhw1234
IP	0.0.0.0
GW	0.0.0.0
SN	0.0.0.0
	Apply
	Connection Failed !!
(C)C4	opyright 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.

			-	\times
🧲 🔿 🙋 http:/	/192.168	.192.1/?ssi ▼ ♂ 검색		ρ.
as Printer Wireless	s Config	. × 📑		
A 9 6	Drinto	r Wireless Configur	ation	
AUT	mile	Whichess Connigui	unon	
	SSID	Scan		
		[Direct input]	-	
		hard	1	
			-	
	PASS	pbhw1234		
		□ STATI	с	
	IP	192 168 2 169		
		102.100.2.100		
	GW	192.168.2.1		
	SN	255 255 255 0	1	
	0.1	200.200.200.0		
		Apply		
			-	
	Su	ccessfully Connected II		
I				
	(C)Co	pyright 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 P2.05-CAP06[2020/09/08]
[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_3.3.0 [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".

- 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 P2.05-CAP06[2020/09/08]
[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_3.3.0 [Mode] : Bluetooth Classic [Device Name] : A8_PRINTER_####################################
[RSSI] : -42dBm ************************************



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".

S	***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".

- 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 P2.05-CAP06[2020/09/08]
[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_3.3.0 [Mode] : Bluetooth Classic+BLE [Device Name] : A8_PRINTER_####### [PIN-Code] : 0000 [MAC Address] : 24-6F-28-42-DA-90 [Auth] : 2 [RSSI] : -42dBm



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			
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 and select "WiFi SoftAP".

- 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 <u>http://192.168.192.1</u>/update and load setup page as below.

- ロ × 会 会 Mtp://192.168.192.1/upc マ む 244 クマ ダ A8 Printer Wireless Module × ご
A8 Printer Wireless Module Firmware Update
Current Firmware Version : 3.2.2_2.01
Selected Firmware File
찿아보기 Update
(C)Copyright 2019 POSBANK Co., Ltd.
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7) When you click the "Browse", files window is displayed as below.

🏉 업로드할 파일 선택						>	×
← → ✓ ↑ 📙 > 내 PC → 로컬 디스크 (C:) → Temp → esp32 >				✓ ⁰ esp32 검색	4	م ر	
구성 ▼ 새 폴더					•== •	. ?)
🏪 로컬 디스크 (C:) ^	이름	수정한 날짜	유형	크기			
💻 LH PC	flash_download_tools_v3.6.5_0	2019-04-30 오전	파일 쫄더				
🧊 3D 개체	📄 a8_combo.bin	2019-04-30 오후	BIN 파일	978KB			
Galaxy S8	bootloader.bin	2019-04-30 오후	BIN 파일	16KB			
	📄 ota_data_initial.bin	2019-04-30 오후	BIN 파일	8KB			
	partitions.bin	2019-04-30 오후	BIN 파일	ЗКВ			
불 농영상	📄 table	2019-04-30 오후	텍스트 문서	1KB			
🔮 문서							
🔜 바탕 화면							
도 사진							
👌 음악							
🏪 로컬 디스크 (C:)							
Work (D:)							
DataBank (E:)							
DVD 드라이브 (
v = - = + + + + + + + + + + + + + + + + +							
π.e. 0	1200				(* *)		
파일 이	1=(IN).			~ 모든 파일	(^.^)	~	
				열기((D) 4	취소	



- 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.

-		X
A8 Printer Wireless Module ×		<i>p</i> +
A8 Printer Wireless Module Firmware	Upda	te
Firmware update completed successfully.		
Please reboot this device.		
(C)Copyright 2019 POSBANK Co., Ltd.		
<		

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.

(=) @ http://192.168.192.1/rest - C 검색	*							
A8 Printer Wireless Module × 📑								
A C Deinten Müncleren Mardelle Diensenen Umdete								
A8 Printer Wireless Module Firmware Update								
Firmware undate failed II								
r inniware update failed in								
Update Page Setting Page								
(C)Conviriant 2010 DOSRANK Co. Ltd.								
(c)copyright 2019 POSBAINC Go., Etc.								
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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.



- End -