

BASSO-1010UW Portable Console

User Manual



Revision History

Revision Date	Document Ver.	Pages Revised	Revised/Added/Removed	Details of Revision
2021.05.24	1.0	All	-	New

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Please be sure to read this manual before using and use the product safely and accurately.

- Pictures and photos in the manual may be different from the physical, and the document is subject to change without notice to improve performance. For the last information, please visit our website (www.sysbas.com).
- To view frequently asked questions and answers, please visit our website and find Support -Technical Support -FAQ section.
- Documents can be downloaded from the product page or Download section.
- Sellers or users should be aware of the fact that this device is intended for industrial use(Class A), not for residential use.
- This device has a potential for radio interference during use and may receive harmful interference from other devices.
- This product is for domestic(Korea) use and cannot be used overseas with different power/frequency.
- Warranty policy is included in the product packaging.
- The exchange/return of the device can be handled by the procedure described in the Warranty Policy.

1. Components



Components	Ordering Information
BASSO-1010UW, USB Charging Cable, USB to Serial Terminal 5pin Cable	BASSO-1010UW

2. Product



LED



State	LED	Note
Charging	Each corresponding LED depending on battery level blinks every 1.0 seconds	Green = Enough (more than 67%) Yellow = Middle (34~66%) Red = Low (less than 33%)
Charging Complete	Green LED illuminates when charging complete	
WiFi Setting	Green LED flashes twice for 0.2 seconds, once for 0.6 seconds	When pressing "WiFi Setting" button more than 3 seconds while power is On
WiFi Standby	Green LED flashes every 1.0 seconds	When power is On or when pressing "WiFi Setting" more than 3 seconds in setup state
WiFi Connection	Green LED illuminates	
Power ON	Green LED flashes every 1.0 seconds	Press Power button for more than 3 seconds
Power OFF	Red LED flashes for 1 seconds and turns OFF	Press Power button for more than 3 seconds




Connector



- Reset Switch: System reboot when pressing less than 1 second, Factory initialization when pressing more than 3 seconds.
- Micro-B USB Connector: Charge by connecting a USB 5VDC to the USB charging cable included.
- Serial Port(RS232/RS485): Serial port which can communicate.
(Please refer to the Appendix for pin specifications)

Button



	Power ON/OFF	Power ON/OFF when pressing more than 3 seconds → LED: Power ON, Green flashes every 1 second, Power OFF: Red flashes and turns off
	Battery	Shows the battery level when pressing less than 3 seconds while the Power is ON → LED: Green = Enough(more than 67%) Yellow = Middle(34~66%), Red = Low(less than 33%)
	WiFi Setting	WiFi setup mode ON when pressing more than 3 seconds while the power is ON → LED: Green flashes twice for 0.2 seconds, once for 0.6 seconds. WiFi setup mode OFF when pressing more than 3 seconds while the setup mode is ON → LED: Green flashes every 1 second.

3. Features

The BASSO-1010UW converts wired serial communication into wireless WiFi communication, performing the functions below.

1) Converts serial signals to wireless

Converts RS232/RS422/RS485 serial signals which requires cable installation to wireless WiFi signals.

2) Supports Various WiFi wireless communication

Supports WiFi wireless communication at low price.

Supports IEEE 802.11 a/b/g/n, Dual Band(2.4GHz/5GHz), Infrastructure/Soft AP functions, encryption functions (Open, WEP, WPA-PSK, WPA2-PSK, Enterprise).

3) Low Power Running Mode

rLory is a low-power product powered by 5V DC and 2W power consumption. If it is difficult to supply power at all times in the field, it is possible to operate by supplying power using solar panels and batteries.

4) VCP(Virtual Com Port)

Among the utilities provided, the VCP(Virtual Com Port) “ComRedirector” allows users to use the serial port on sWiFi/all connected to the same network as if it is a serial port mounted on a PC.

It also supports Server/Client mode that can access serial socket.

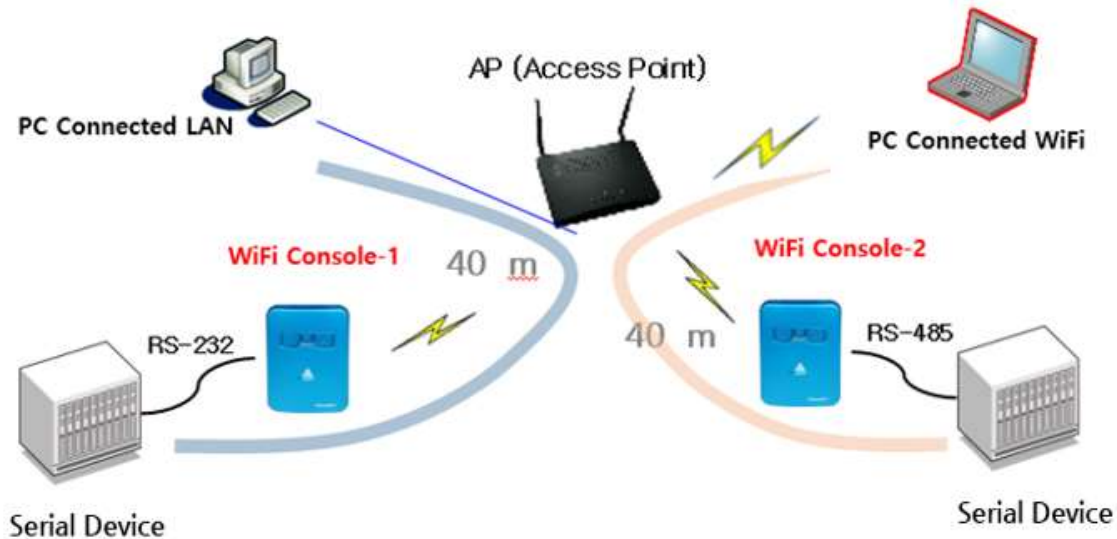
Utility “sWiFiConfig” allows quick and easy set ups from user perspective.

4. How to Use

Device/PC - AP - Device Connection (Infrastructure)

In Infrastructure mode, BASSO-1010UW performs connection between ComRedirector, TCP Server/Client and UDP via AP (Access Point).

For BASSO-1010UW to access AP, the IP of the router band can be set to static IP which is a fixed IP, or set as DHCP which the IP is assigned.



Each BASSO-1010UW can be connected to an AP wired PC or laptop to communicate.

Device/PC - Device Connection (Soft-AP)



Without being connected to AP, BASSO-1010UW and PC can be connected 1:1 For serial communication

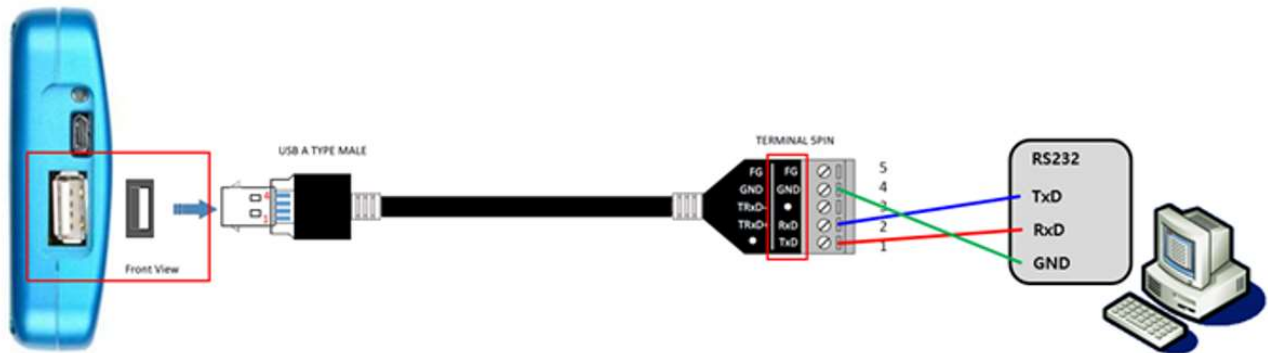
*For detailed setup methods for each connection, please refer to the “Example of Using Setup Method” in Ch.5 Settings.

5. Settings

Check the input voltage matches 5V 1A and supply the correct voltage. BASSO-1010UW starts booting at power-on with normal power supply. LED shows the operating status of the model including RDY. For detailed information, please refer to CH.3 Product - LED menu.

To view or set up an environment of BASSO-1010UW, user must use sWiFiConfig utility, either directly connecting to serial port(RS232) or to the IP Address, the network address where BASSO-1010UW is operating.

(1) Connect BASSO-1010UW to RS232/USB port on the PC



With the RS232 serial communication port(COM port) installed on PC, put BASSO-1010UW in setup mode and perform 'Connect to BASSO-1010UW' using sWiFiConfig.

(2) Find and Connect BASSO-1010UW using WiFi menu of PC



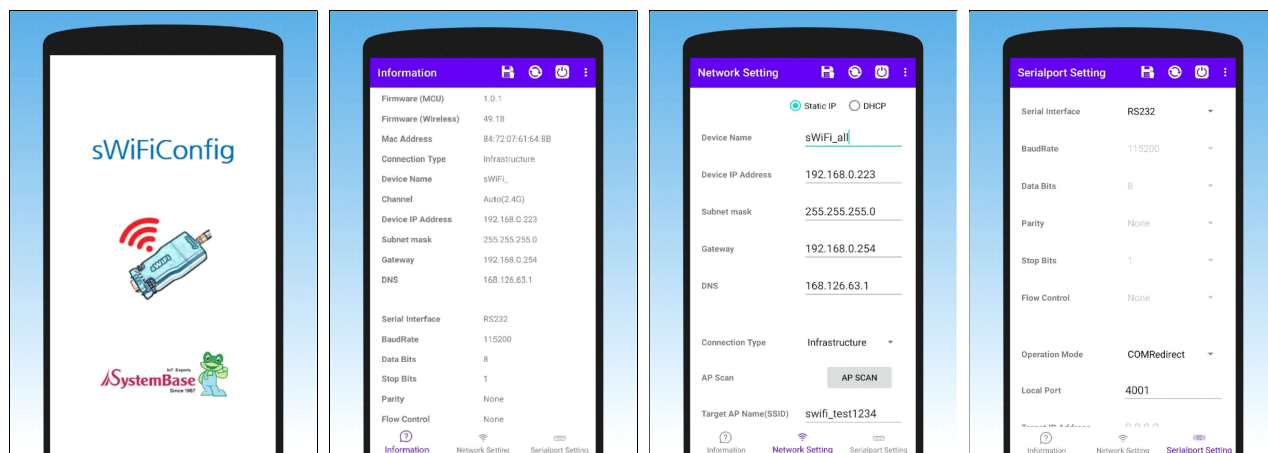
To access BASSO-1010UW setup mode through the network, put BASSO-1010UW in setup mode, connect to BASSO-1010UW on PC via WiFi and perform 'Connect to BASSO-1010UW' using sWiFiConfig.

(3) Find and Connect BASSO-1010UW via Smartphone App(sWiFiConfig)



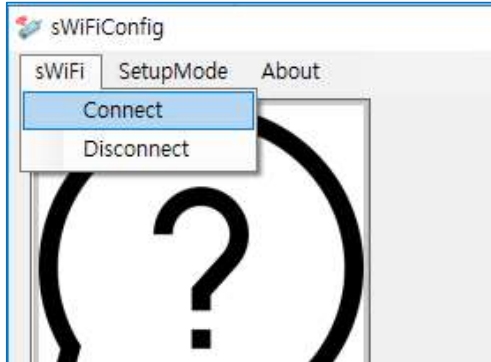
To access BASSO-1010UW setup mode through sWiFiConfig smartphone app, set BASSO-1010UW in setup mode, connect BASSO-1010UW from smartphone app via WiFi, and connect to BASSO-1010UW in sWiFiConfig App.

The sWiFiConfig App is for Android only. You can download it from Google Play by searching sWiFiConfig or from SystemBase website download menu.



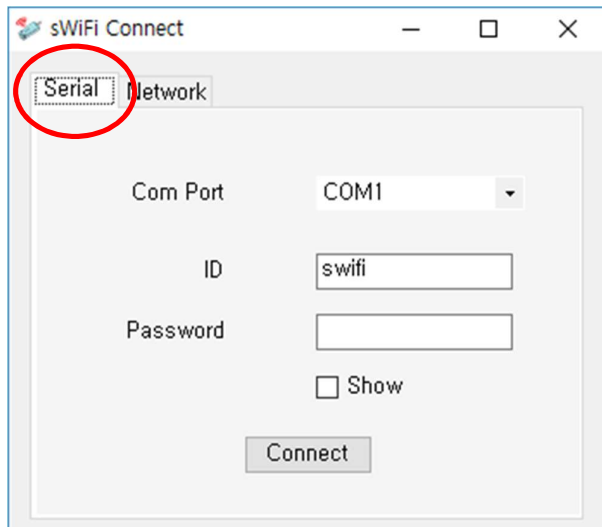
Setup using sWiFiConfig (PC Utility)

Apply power to BASSO-1010UW and press the Wireless switch for more than 3 seconds to operate in setup mode. RDY(green) LED flashes twice for 0.2 seconds and once for 0.6 seconds. Then run the sWiFiConfig utility and launch the sWiFi>Connect menu on the top menu bar as below.



There are two methods to setup BASSO-1010UW. One is “Serial” method that connects to the RS232 serial communication port(COM port) on the PC, and the other is “Network” method that connects the BASSO-1010UW with PC WiFi and access to the IP of BASSO-1010UW for settings.

The “Serial” method, which is the setup by connecting to the RS232 serial communication port(COM port) on the PC, connects with BASSO-1010UW with the corresponding serial port on utility.



Login with ID/PW: swifi/99999999/ Please note that swifi is lowercase.

*If setup is required while using BASSO-1010UW as RS422 and RS485 ports, there is a method to use RS232 port on the PC and to set them as “Network” access in the description below.

The “Network” method is the second method, which connects BASSO-1010UW and WiFi on PC for settings.

Connects wirelessly to BASSO-1010UW and access using BASSO-1010UW's IP 10.10.1.1 and port number 4000.



Login with ID/PW: swifi/99999999. Please note that swifi is lowercase.

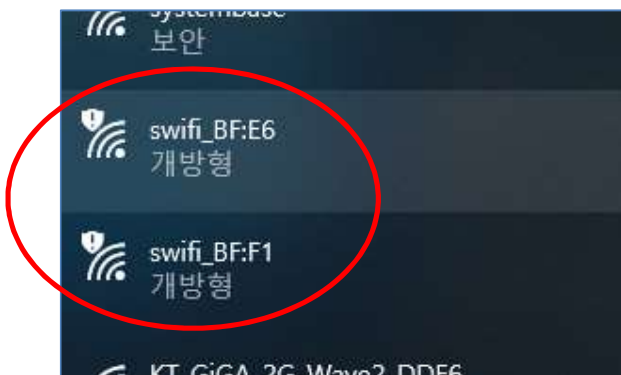
ID and password can be changed in the “Information menu” on the below page.

[PLEASE NOTE] The IP address of BASSO-1010UW's IP 10.10.1.1 and TCP Port No. 4000 cannot be changed.

If the PC uses WiFi and wired LAN at the same time, if the IP of wired LAN is set to 10.10.1.xxx network, IP conflict may occur in the same band. So please stop using wired LAN and connect BASSO-1010UW to WiFi.

[TIP] When accessing using “Network” method, for initial connection from PC WiFi to BASSO-1010UW, please select “swifi_XX:YY” and connect. There is no specific password at this time as it is open connection. XX:YY is the end of MAC Address of BASSO-1010UW.

If Device Name and encryption settings are changed, please do WiFi connection on PC with changed information.

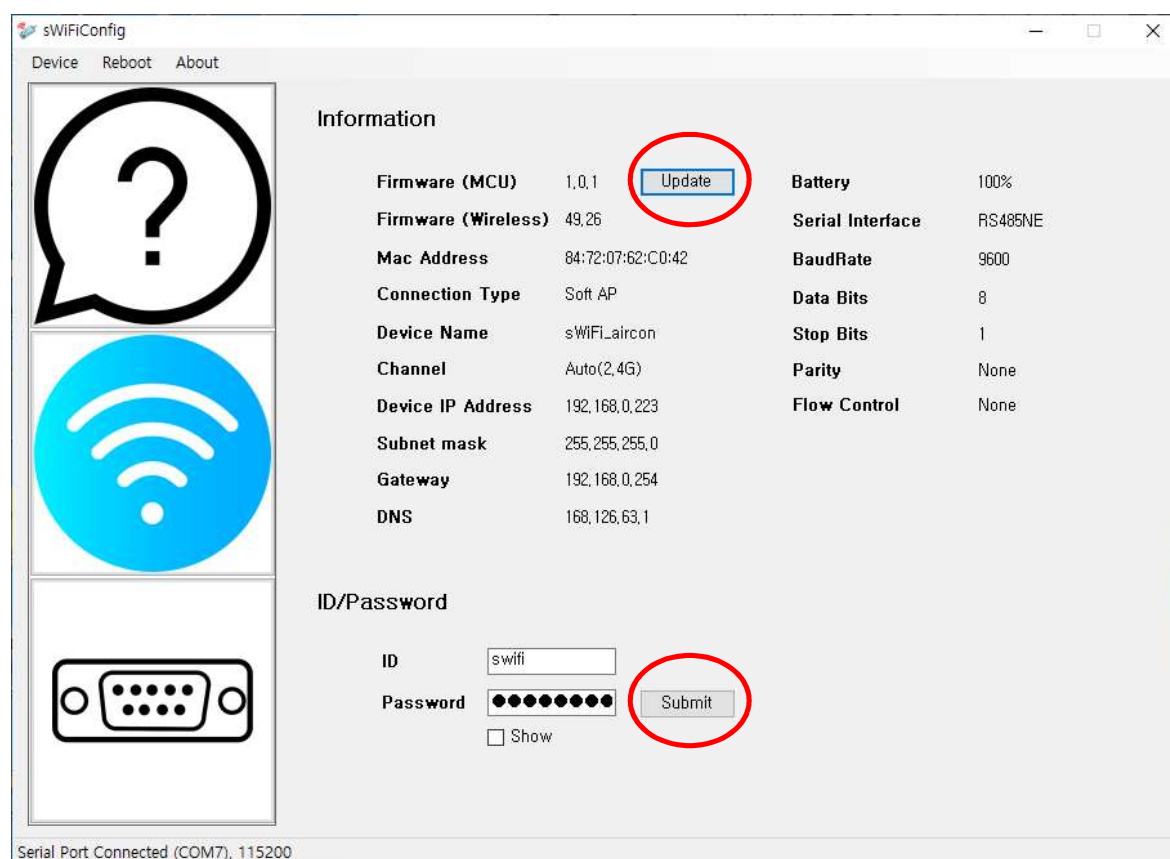


BASSO-1010UW in setup mode retrieved from the PC

Information

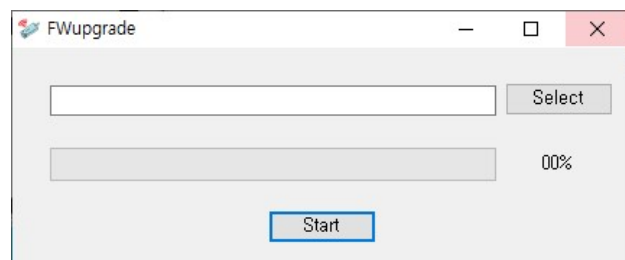
Information menu outputs the basic setting information of BASSO-1010UW.

It also performs MCU Firmware Update, settings for the connection ID and PW of BASSO-1010UW.



[Update] button is a button for Firmware(MCU) Update for BASSO-1010UW devices.

Firmware(MCU) is the firmware for the entire operation of BASSO-1010UW. It can be updated via sWiFiConfig access. Click [Update] to select the firmware file and update.

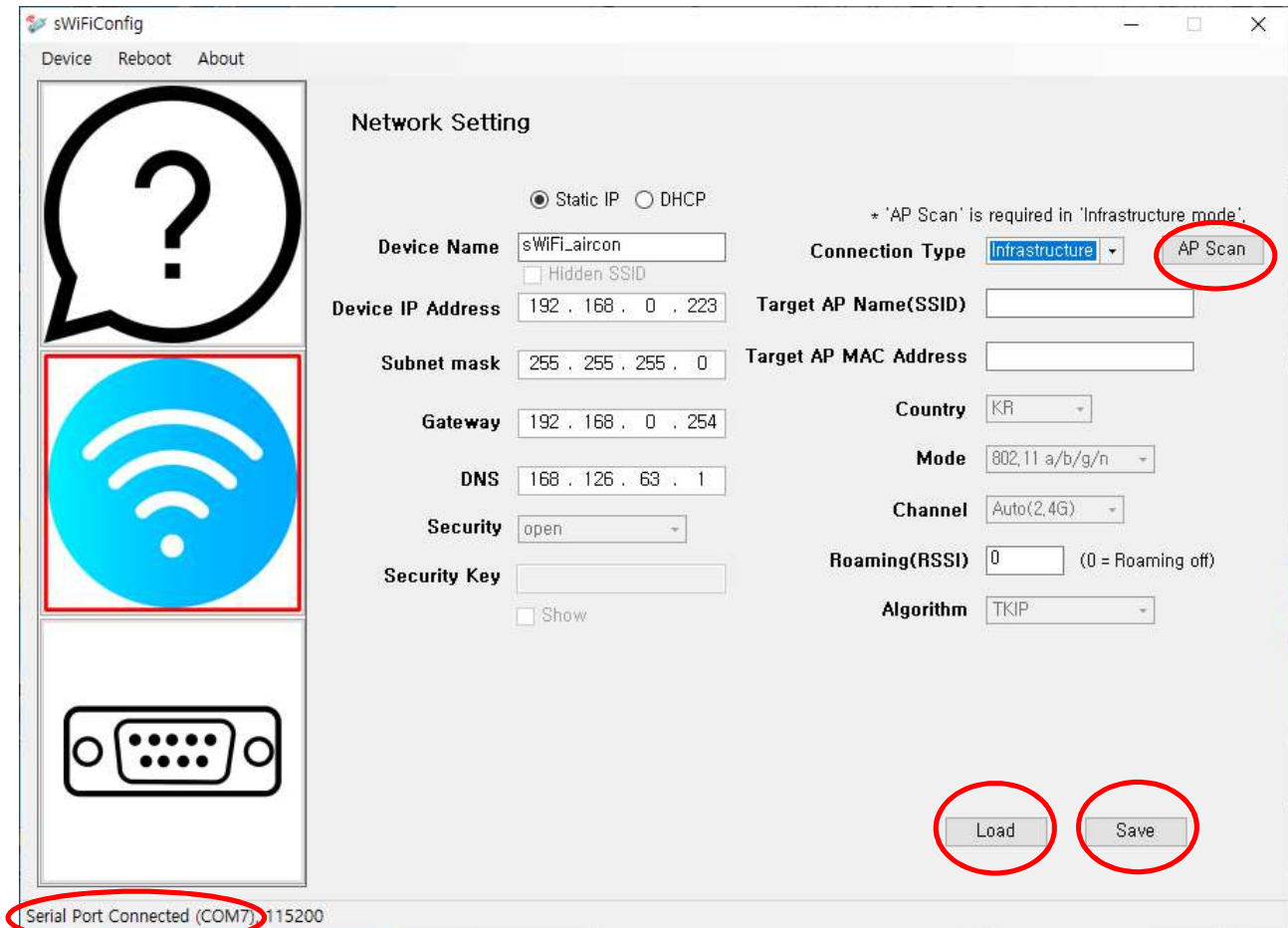


Firmware(Wireless) is the firmware for the Wireless module. It can be updated with Web access.

(Please refer to “Webpage” below)

Network Setting

Network Setup performs BASSO-1010UW settings related to network.



The screenshot shows the 'sWiFiConfig' application window. The 'Network Setting' tab is active. On the left sidebar, the Wi-Fi icon is highlighted with a red box. The main configuration area includes:

- Static IP / DHCP:** Radio buttons for 'Static IP' (selected) and 'DHCP'.
- Device Name:** Text field containing 'sWiFi_aircon'.
- Device IP Address:** Text field containing '192 . 168 . 0 . 223'.
- Subnet mask:** Text field containing '255 . 255 . 255 . 0'.
- Gateway:** Text field containing '192 . 168 . 0 . 254'.
- DNS:** Text field containing '168 . 126 . 63 . 1'.
- Security:** Dropdown menu set to 'open'.
- Security Key:** Text field with a 'Show' checkbox.
- Connection Type:** Dropdown menu set to 'Infrastructure'.
- Target AP Name(SSID):** Text field.
- Target AP MAC Address:** Text field.
- Country:** Dropdown menu set to 'KR'.
- Mode:** Dropdown menu set to '802.11 a/b/g/n'.
- Channel:** Dropdown menu set to 'Auto(2.4G)'.
- Roaming(RSSI):** Text field set to '0' with a note '(0 = Roaming off)'.
- Algorithm:** Dropdown menu set to 'TKIP'.

 The 'AP Scan' button is circled in red. The 'Load' and 'Save' buttons at the bottom right are also circled in red. The status bar at the bottom left shows 'Serial Port Connected (COM7) 115200'.

Lower-left corner shows the information and status of the connected COMport.

[Load] button is a button that shows the information of the currently set BASSO-1010UW.

[Save] button is a button that saves the set content of BASSO-1010UW.

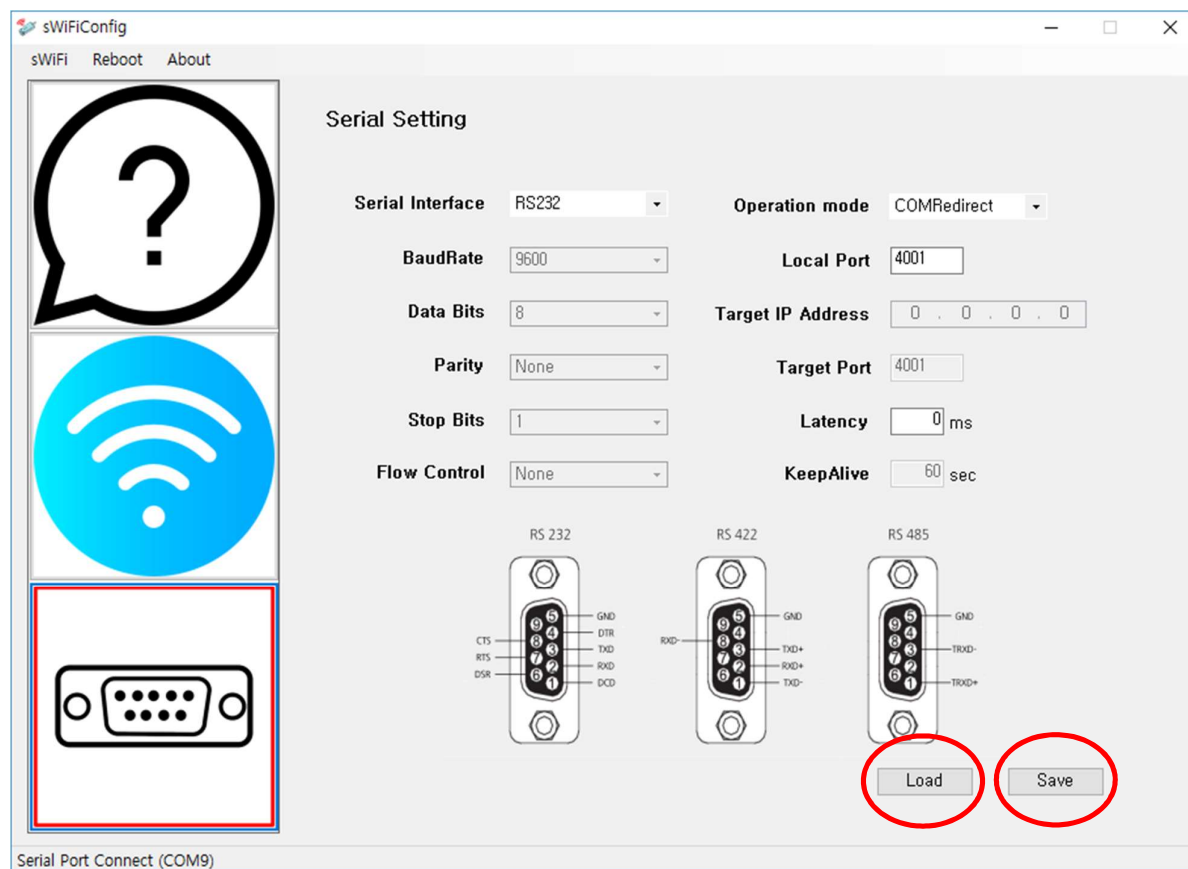
Once the settings have been change, please make sure to press the [Save] button and check that the changed values have been applied in the actual equipment. You can check the [Load] button to re-connect and check the set value again. If force terminate the program without saving the changes, the changed values are not saved.

[TIP] The SSID for [Tip] Soft-AP can be changed in the Device Name area. Default Device Name(SSID) is "sWiFi_aircon". We recommend changing the Device Name so that you can distinguish each device when using multiple BASSO-1010UW as Soft-AP.

*For detailed network setup information, please refer to Ch.4 Setup Utility section in the following Appendix.

Serial Setting

Serial Setup perform BASSO-1010UW settings related to serial port.



[Load] button is a button that shows the information of the currently set BASSO-1010UW.

[Save] button is a button that saves the set content of BASSO-1010UW.

Once the settings have been change, please make sure to press the [Save] button and check that the changed values have been applied in the actual equipment. You can check the [Load] button to re-connect and check the set value again. If force terminate the program without saving the changes, the changed values are not saved.

***For detailed network setup information, please refer to Ch.4 Setup Utility section in the following Appendix.**

Reboot

After setting up BASSO-1010UW, press the '[Reboot]' button to restart BASSO-1010UW and change it to operating mode.



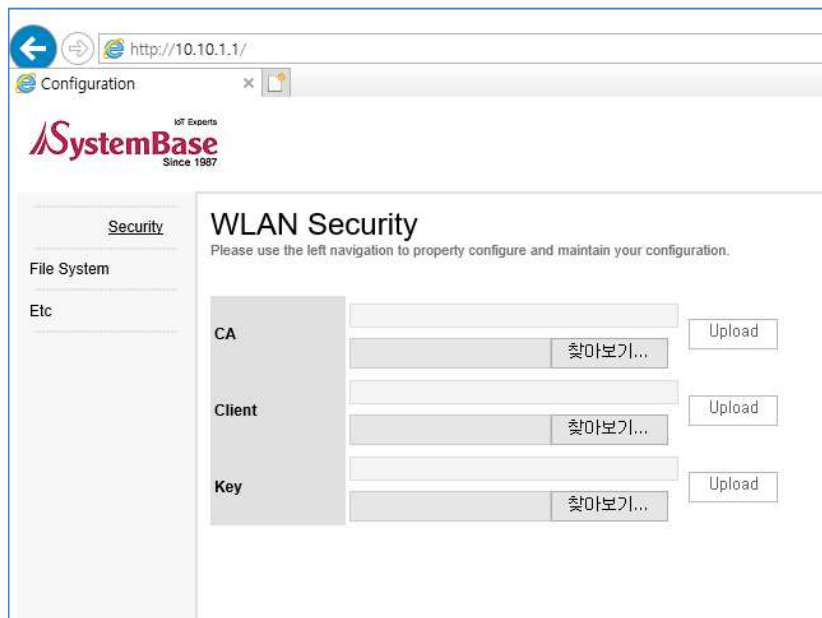
WebPage

The WebPage is used to register for WPA-Enterprise, WPA2-Enterprise among the encryption modes of BASSO-1010UW or to update firmware(wireless).

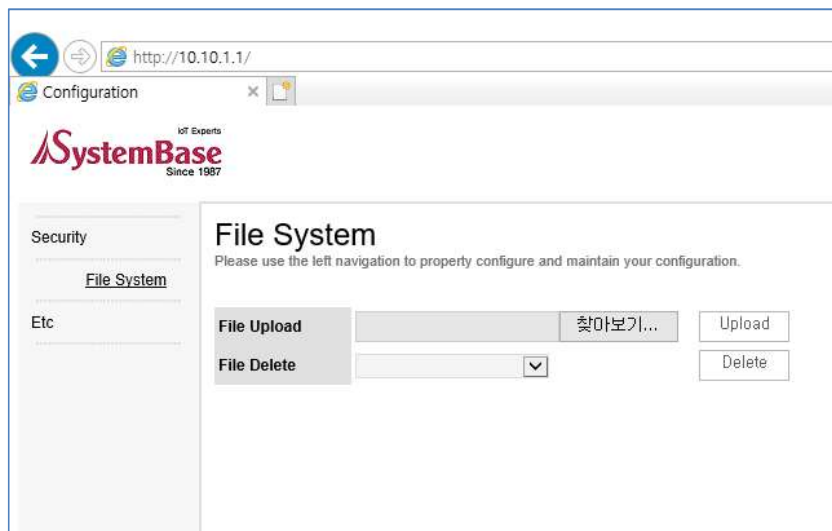
There are three WebPage access methods as below.

- BASSO-1010UW is in setup mode, BASSO-1010UW and PC are connected via WiFi → Access Web using the default IP 10.10.1.1
- BASSO-1010UW is in Infrastructure mode, connected to AP → Access Web using IP of BASSO-1010UW on the connected PC
- BASSO-1010UW is in Soft AP mode → Access Web using the set IP of BASSO-1010UW on the connected PC

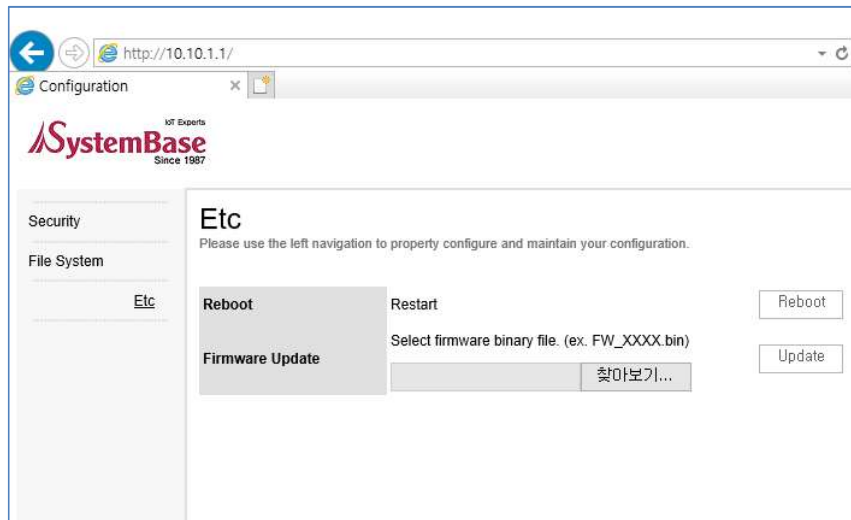
The figure below is the first method of the above to be Web-connected to the default web address of the device, <http://10.10.1.1>.



You can upload CA, Client, and Key files for Enterprise encryption.



On File System menu, you can delete the CA, Client, Key files uploaded from the Security page. Select the authentication certificate file you want to delete and click [Delete] button.



Firmware Update in the Etc menu is Firmware(Wireless) Update of BASSO-1010UW.
Click the [Select File] button to select the Wireless firmware file and update.

Firmware(MCU), the firmware for the entire operation of BASSO-1010UW can be updated with sWiFiConfig access.

(Please refer to “Information” page above)

Setup using sWiFiConfig (smartphone app)

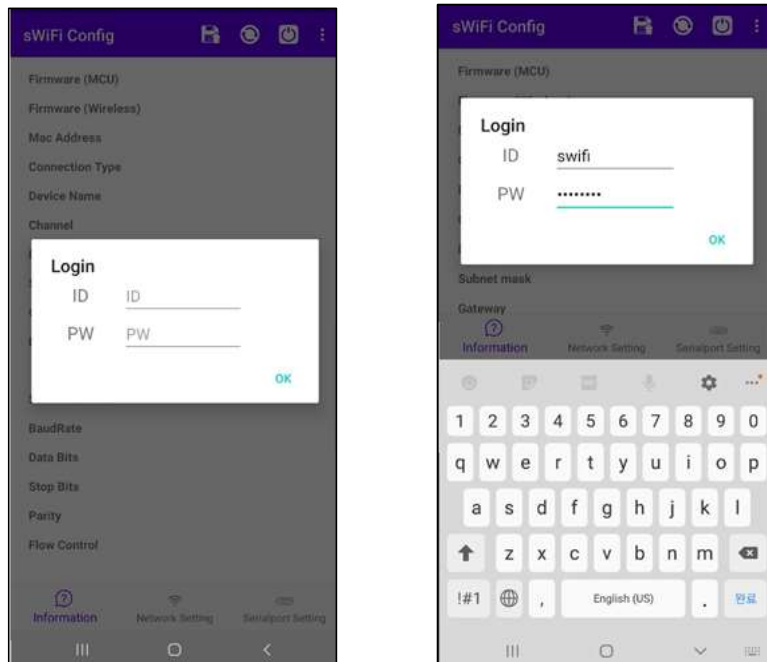
Apply power to BASSO-1010UW and press the Wireless switch for more than 3 seconds to operate in setup mode. RDY(green) LED flashes twice for 0.2 seconds and once for 0.6 seconds. When you set your smartphone's WiFi to ON and search for BASSO-1010UW that you want to set up, it displays as below and connects.



Run sWiFiConfig App.

* sWiFiConfig App is for Android only, which allows you to set up BASSO-1010UW. Please use the PC utility for firmware updates.

Log in to connect with BASSO-1010UW.

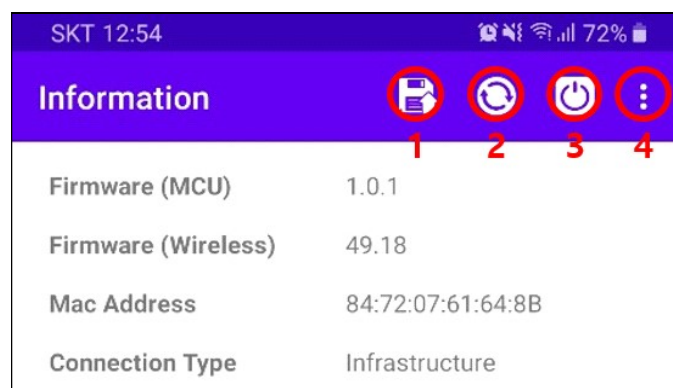


Login with ID/PW: swifi/99999999. Please note that swifi is lowercase.

ID and password can be changed in the "Information menu" on the below page.

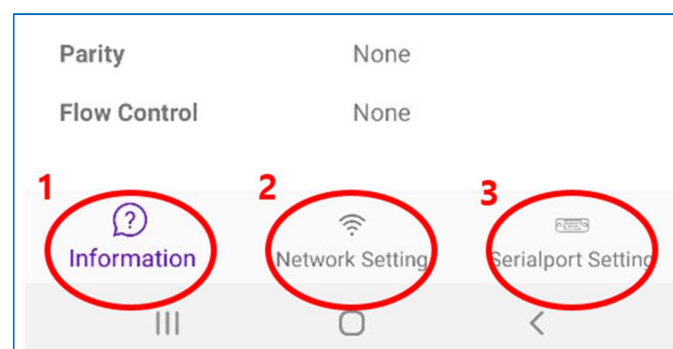
When Login succeeds, the information of BASSO-1010UW is displayed in the Information item.

The functions of the top menu are as follows:



1. SAVE: Save the contents of the current screen to the connected equipment.
2. Refresh/Try Connecting: Recall information currently stored on the device, or try to reconnect the app and device when communication is lost.
3. Reboot: Reboot when the equipment is all set up.
4. Login/about: Select and output the Login dialogue and about dialogue.

The functions of the button menus are as follows:

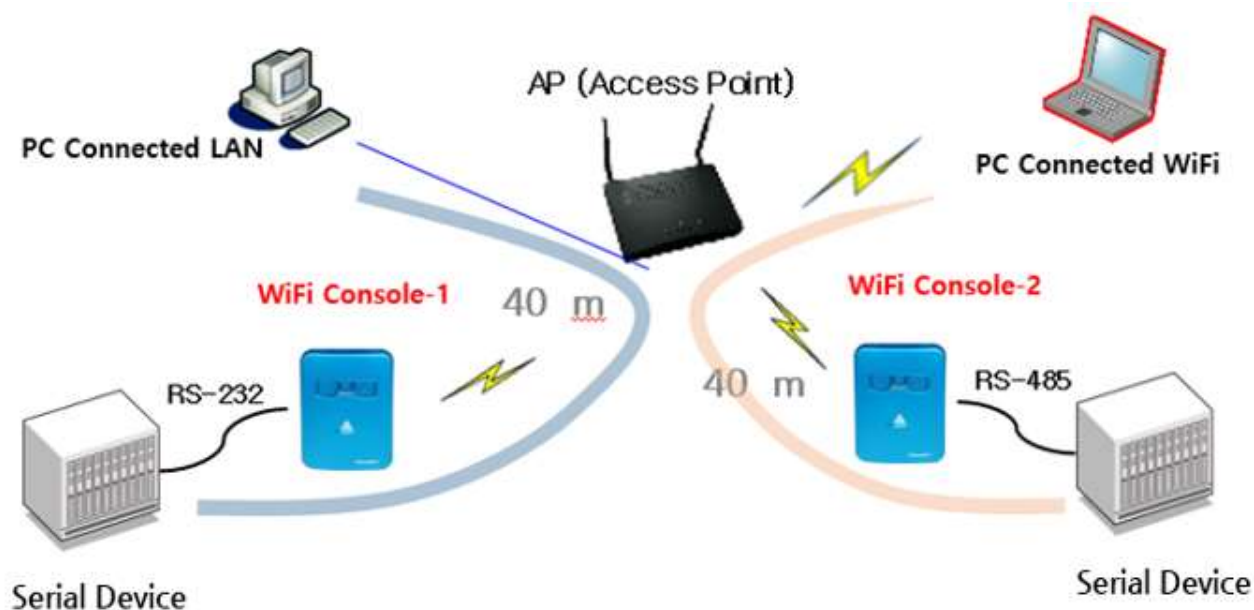


1. Information: Outputs the current information of the connected equipment.
2. Network Setting: Moves to the Network Setting screen. For more information, please refer to the Network Setting menu on page 14.
3. Serialport Setting: Moves to Serialport Setting Screen. For more information, please refer to the Serial Setting menu on page 15.

6. Setting Examples

Based on the above information, we explained the information that can be easily set up through various connections. Please understand the setup method with an example of the configuration below.

Infrastructure #1



How to Set Infrastructure Mode

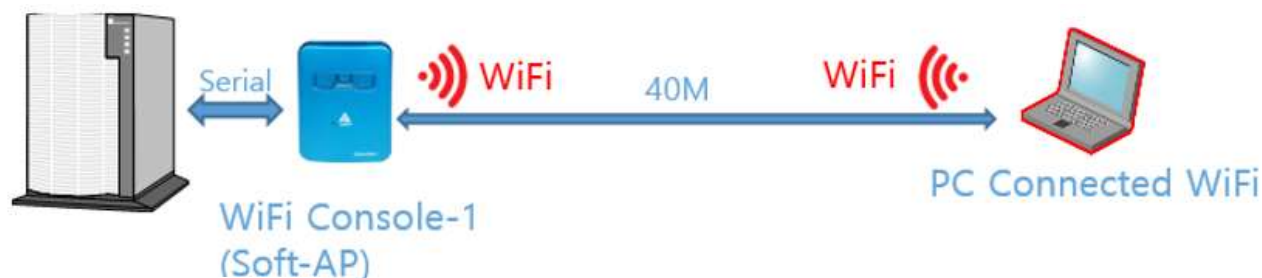
Setup	PC Connected LAN (or PC Connected WiFi)	BASSO-1010UW-1 (or BASSO-1010UW-2)
Network	Device IP Address: 192.168.0.100 Subnet Mask: 255.255.255.0 Gateway: 192.168.0.1 DNS:168.126.63.1 Connection Type: Infrastructure Target AP Name: sysbas23 (search with AP Scan)	Device Name: BASSO-1010UW_1 Device IP Address: 192.168.0.200 Subnet Mask: 255.255.255.0 Gateway: 192.168.0.1 DNS:168.126.63.1 Connection Type: Infrastructure Target AP Name: sysbas23 (search with AP Scan)
Serial	Use COM Redirector to connect to the COMx port(192.168.0.200 4001)	Operation Mode: COM Redirector Local Port: 4001
	TCP Server Local Port: 4001	Operation Mode: TCP Client Target IP: 192.168.0.100 Target Port: 4001
	Operation Mode: TCP Client Target IP: 192.168.0.200 Target Port: 4001	Operation Mode: TCP Server Local Port: 4001

	Operation Mode: UDP Local Port: 4001 Target IP: 192.168.0.200 Target Port: 4001	Operation Mode: UDP Local Port: 4001 Target IP: 192.168.0.100 Target Port: 4001
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* Setting values are examples for understanding. The values may vary by product and site.

As shown above, COM Redirector, Server/Client, UDP enables various communication.

Soft-AP #1



How to Set Soft-AP Mode

Setup	BASSO-1010UW(Soft-AP)	PC Connected WiFi
Network	Device Name: BASSO-1010UW_SoftAP1 Device IP Address: 192.168.1.100 Subnet Mask: 255.255.255.0 DNS:168.126.63.1 Connection Type: Soft-AP Channel: 10 Security: open Password:	Device Name: BASSO-1010UW_2 Device IP Address: 192.168.1.200 Subnet Mask: 255.255.255.0 DNS:168.126.63.1 Connection Type: Infrastructure Channel: 10 Target AP: BASSO-1010UW_SoftAP1
	Operation Mode: COM Redirector Local Port: 4001	Use COM Redirector to connect to the COMx port(192.168.0.200 4001)
	Operation Mode: TCP Server Local Port: 4001	Operation Mode: TCP Client Target IP: 192.168.1.100 Target Port: 4001
	Operation Mode: TCP Client Target IP: 192.168.1.200 Target Port: 4001	Operation Mode: TCP Server Local Port: 4001
Serial	Operation Mode: UDP Local Port: 4001 Target IP: 192.168.1.200 Target Port: 4001	Operation Mode: UDP Local Port: 4001 Target IP: 192.168.1.100 Target Port: 4001

* Setting values are examples for understanding. The values may vary by product and site.

As shown above, Soft-AP, Infrastructure, COM Redirector, Server/Client, UDP enables 1:1 communication between devices.

[Tip] When using as Soft-AP, we recommend you to change the default Device Name(sWiFi_all) so that you can find it easily through AP as we have changed the device name “sWiFi -1” to "BASSO-1010UW_SoftAP1" above.

Soft-AP operates in open, WPA_PSK and WPA2_PSK encryption modes.

Class A equipment

Sellers or users should be aware of the fact that this device is intended for industrial use(Class A), not for residential use.

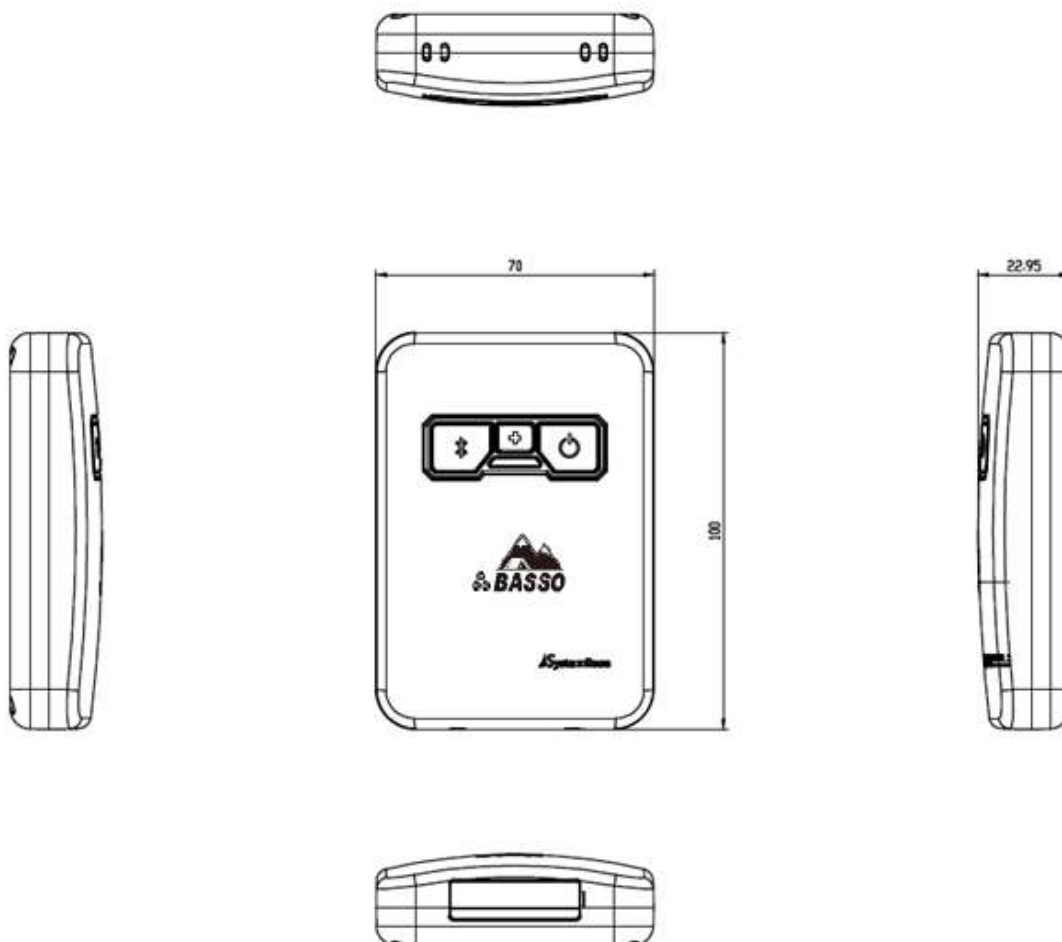
This device has a potential for radio interference during use and may receive harmful interference from other devices.

----- APPENDIX -----

1. Specification

WiFi	Frequency	2,412 ~ 2,462MHz, 5,150 ~ 5,250MHz, 5,725 ~ 5,850MHz
	Standard	IEEE 802.11 a/b/g/n
	ANT	Built-in Patch Antenna / Avg 1.5dBi/2.4GHz, -0.7dBi/5GHz
	Mode	Station, Peer to Peer
Serial	Port	1 Port DB9(Female), RS232/485
	Speed	Max 921.6Kbps
	Data bit	5, 6, 7, 8
	Stop bit	1, 2
	Parity bit	None, Even, Odd
	Signals(RS232)	TXD, RXD
	Signals(RS485)	TRXD+, TRXD-
Hardware	Power Requirement	USB 5VDC 1A Input, Power Consumption: 0.5W
	Power Connector	Micro-B USB
	Dimension (W) x (L) x (H)	70 x 100 x 22.95mm (2.76 x 3.94 x 0.9in)
	Weight	120g (4.23oz)
	Operating Temperature	-10 ~ 60℃ (14 ~ 140°F)
	Humidity	Max 90% R.H
	LED	Enough(Green), Middle(Yellow), Low(Red),
Software	OS	RTOS
	Protocols	COM Redirector, TCP Server/Client, UDP
	Security	Open, WEP, WPA-PSK, WPA2-PSK, WPA-Enterprise, WPA2-Enterprise
	Support	TCP No-Delay Mode, TCP KeepAlive
	Utility	sWiFiConfig Setup Utility, COM Redirector
Ordering Information		BASSO-1010UW

2. Dimension

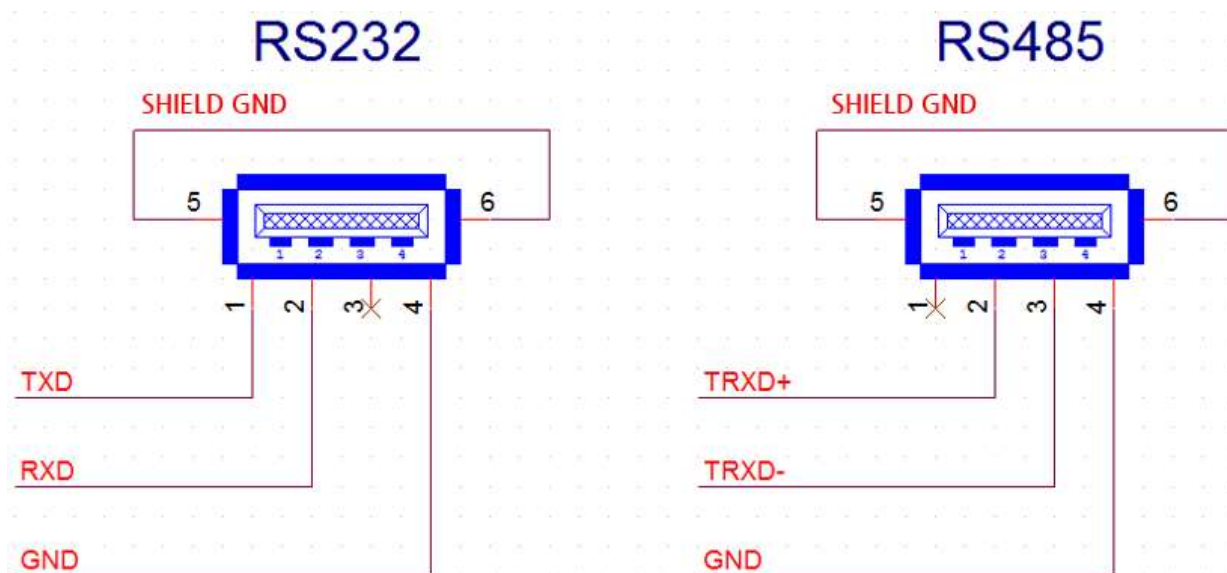


(unit: mm)

3. Serial Port Pin Assignment

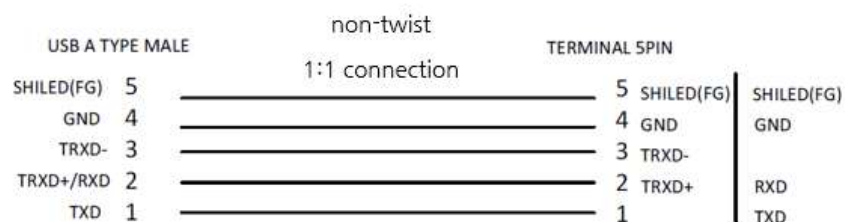


Pin No.	RS232	RS485
1	TXD	-
2	RXD	TRXD+
3	-	TRXD-
4	GND	GND
5	SHIELD GND	SHIELD GND



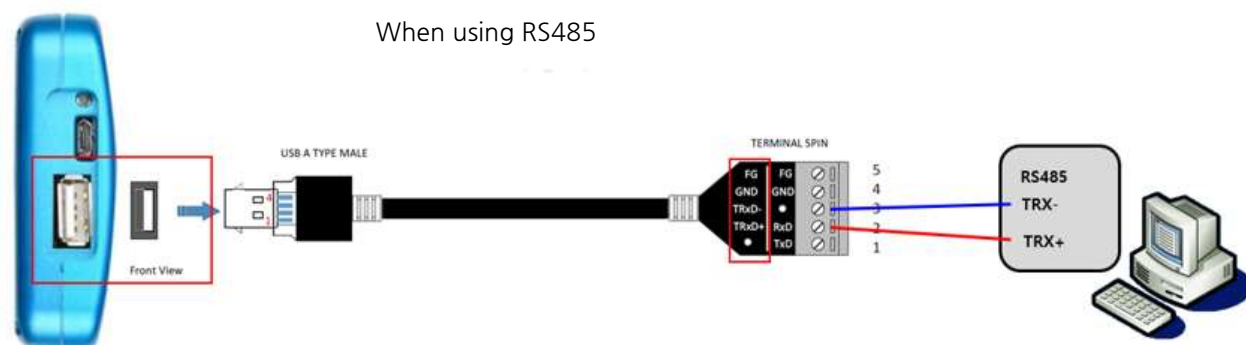
- * RS232port: Cross connect TXD, RXD with PC
- * RS485port: 1:1 connect TRx+ with TRx+, TRx- with TRx-
- * If you need setup while using RS485 port, connect to RS232 port and press the WiFi button to set it up.

Wiring and Cable



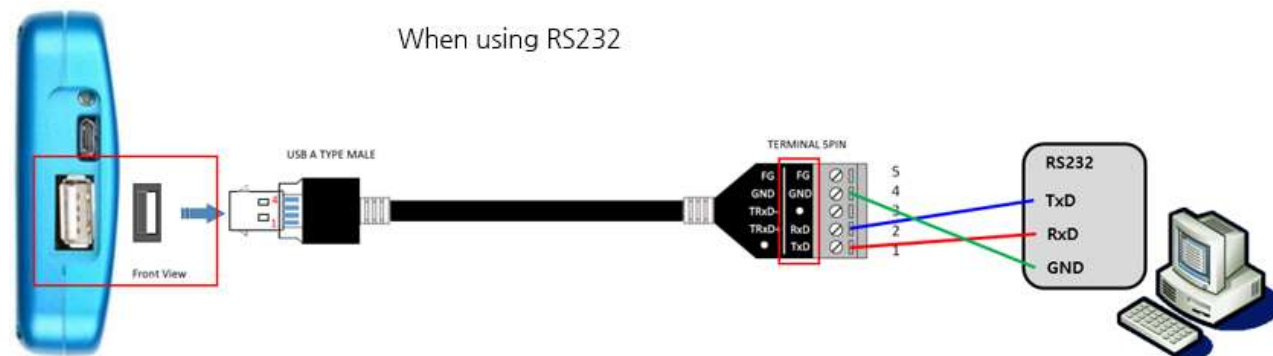
RS485 Wiring

When using RS485



RS232 Wiring

When using RS232



4. Setup Utility Menu

The main menus of Network Setup are as follows:

Menu	Default	Description
IP Type choice	Static IP	Select the IP type to set for the device. Static IP is a fixed IP, and DHCP is an automatic IP mode which is assigned by the AP.
Device Name	sWiFi_all	Set the name of the device.
Device IP Address	192.168.0.223	Sets the Static IP address of the equipment. (If Connection Type is Static IP, enter the IP address directly. If it is DHCP, it is unchangeable and you can verify the IP address once assigned by the AP)
Subnet mask	255.255.255.0	Sets the subnet mask address of the equipment. (If the Connection Type is Static IP, enter the subnet mask directly. If it is DHCP, it is not able to change it)
Gateway	192.168.0.254	Set the gateway address of the equipment. (If the Connection Type is Static IP, enter the gateway address directly. If it is DHCP, it is not able to change it)
DNS	168.126.63.1	Set the IP address of the server that provides the Domain Name Service(DNS).
Security	open	<p>Set the encryption mode.</p> <p>open Disable encryption.</p> <p>WEP An encryption method using RC4 algorithm which uses 40bit(5Byte) and 104bit(13Byte) keys.</p> <p>WPA-PSK It uses TKIP algorithm by default, but CCMP algorithm is also available. A key longer than 8Byte is required.</p> <p>WPA2-PSK It uses AES algorithm and a key longer than 8Byte is required.</p> <p>WPA-Enterprise An encryption mode that blocks access from unauthorized devices and allows only authorized devices to access the network. It uses EAP(Extensible Authentication Protocol).</p> <p>WPA2-Enterprise WPA-Enterprise basically supports CCMP instead of TKIP.</p>

		<p>In Infrastructure mode, it is displayed as shaded because it connects with the information of the AP to connect to.</p> <p>In Soft-AP mode, open, WPA-PSK, and WPA2-PSK encryption modes are selectable.</p>
Security Key	-	Enter the password for the AP to connect to.
Connection Type	Infrastructure	<p>Set up the connection method of BASSO-1010UW.</p> <p>Infrastructure</p> <p>The mode in which an intermediate AP performs the connection between BASSO-1010UWs and data is sent/received. The AP Scan button menu appears when you select this type.</p> <p>Soft AP</p> <p>The mode in which BASSO-1010UW performs AP functions. Computer or other BASSO-1010UW is connected to the BASSO-1010UW operating in Soft-AP mode and perform communication without AP. At this time, please select Static IP for the IP setting of the BASSO-1010UW that you want to connect to and use it as a fixed IP in the same band.</p> <p>When using Soft-AP, we recommend you to change the Device Name so that you can easily find the default Device Name "BASSO-1010UW" with the AP.</p>
Target AP Name(SSID)	-	Specify the destination AP name to connect to.
Target AP MAC Address	-	The AP name is automatically displayed when the AP is selected with the [AP Scan] button.
Country	KR	Specify the destination AP MAC address to connect to.
Mode	802.11 a/b/g/n	<p>Set the 802.11 protocol(a/b/g/n).</p> <p>802.11 a</p> <p>5GHz band</p> <p>It uses OFDM technology and supports transmission speed up to 54Mbps. Due to the characteristic of signal, it is easily affected by the surrounding environment such as obstacles or city buildings.</p> <p>802.11 b</p> <p>2.4GHz band</p> <p>The maximum transmission speed is 11Mbps, but in practice 6-7Mbps during implementation of CSMA/CA technology.</p> <p>802.11 g</p> <p>2.4GHz band</p> <p>The transmission speed is the same as the 802.11 a, but it uses</p>

		<p>2.4GHz band frequency. It is now widely used because it is easily compatible with the popular 802.11 b.</p> <p>802.11 n</p> <p>2.4GHz band</p> <p>It uses 2.4 GHz band and supports speeds up to 600Mbps.</p>
Channel	Auto(2.4G)	<p>Set up a channel of BASSO-1010UW.</p> <p>In Korea, the 2.4GHz band can set channels from 1 to 13CH(2.412~2.472GHz), and 5GHZ band from 36 to 165CH(5.180~5.720GHz).</p> <p>Among these channels, from 52 to 144(5.250~5.720GHz) channels are designated as DFS(Dynamic Frequency Selection) channels under Korean Radio Wave Act and are not supported in the Soft AP mode of this product.</p>
Roaming	0	<p>Enables/disables the automatic Roaming feature.</p> <p>If 0, it is disabled.</p> <p>If you assign an RSSI value between -100 and -1dbm, automatic Roaming is performed if sensitivity is lower than that RSSI.</p>
Algorithm	TKIP	<p>Encryption algorithm</p> <p>TKIP(Temporal Key Integrity Protocol)</p> <p>The default encryption algorithm used in WPA.</p> <p>CCMP(AES)(Counter Cipher Mode with block chaining message authentication code Protocol)</p> <p>Advanced AES(Advanced Encryption Standard) based encryption algorithm with enhanced security.</p>
EAP type	-	<p>TLS</p> <p>TLS is the IETF public standard defined in RFC5216. It is considered as the safest of the EAP standards and is commonly used. Certificates are required for both Server and Client sides.</p> <p>TTLS</p> <p>TTLS secures TLS, to perform mutual authentication of the Client and the network over encrypted channels on the Server. TTLS only requires certificate from the Server side.</p> <p>PEAP</p> <p>Use tunneling between the authentication Server and the PEAP Client to transfer authentication data. Only server-side certificate is required as same as TTLS.</p> <p>This setting is displayed when Security is Enterprise.</p>
EAP ID	-	<p>EADP Authentication ID</p> <p>This setting is displayed when Security is Enterprise.</p>

EAP PW	-	EADP Authentication Password This setting is displayed when Security is Enterprise.
EAP Anonymous ID	-	EAP Anonymous ID This setting is displayed when Security is Enterprise.

The main menus of Serial Setup are as follows:

Menu	Default	Description
Serial Interface	RS232	Set the interface for the serial port. Select one of RS232, RS485NE(Non-Echo) modes.
BaudRate	9600	Set the communication speed of the serial port. ("300", "600", "1200", "2400", "4800", "9600", "14400", "19200", "28800", "38400", "57600", "115200", "230400", "460800", "921600")
Data Bits	8	Set the number of bits that make up the byte. (5, 6, 7, 8)
Parity	None	Set the parity check method. (None, Odd, Even)
Stop Bits	1	Set the number of stop bits. (1, 2)
Operation Mode	COM Redirector	<p>Set the operation protocol.</p> <p>COM Redirector Enables a PC in a Windows environment to use communication over Ethernet through a virtual COM Port(VCP).</p> <p>TCP Server BASSO-1010UW acts as a TCP Server and waits for connection from Clients on the network. The socket number waiting for a connection is set at [Local Port] and data can be sent and received when the socket connection is complete.</p> <p>TCP Client When a particular server on the network waits for a connection, BASSO-1010UW acts as a client of socket and attempts to connect with the IP address and socket number of the Server which is set. Data can be sent and received when the socket connection is complete. The IP and port number of the Server to request access to are set at [Target IP/Target Port].</p> <p>UDP BASSO-1010UW communicates with UDP. The socket number to open is set at [Local Port]. The IP address and port number</p>

		<p>of the destination are set at [Target IP/Target Port].</p> <p>We recommend using Static IP rather than DHCP for COM Redirector, TCP Server and UDP.</p>
Local Port	4001	Specify the number assigned to the port. Use this port to wait for network connection in TCP Server and UDP mode.
Target IP Address	0.0.0.0	Specify the IP address of the destination to connect to in TCP Client mode.
Target Port	4001	Specify the port of the destination to connect to in TCP Client mode.
Latency	0	<p>Set up if you want to send continuously-received data from the serial port to the socket at once.</p> <p>For example, if a serial device transmits 100 bytes of text from a serial device to a socket on the server via BASSO-1010UW, if the value is 0, the data entered in bytes at a time is immediately sent to the server through the socket, ensuring real time, but causing a lot of traffic to the network. This can lead to poor performance of the product, leading to loss of serial port data.</p> <p>If this value is not set to 0, it buffers the data received several bytes at a time, waits for amount of time(ms) set, re-buffers the data if it is read again, and if it is not, it sends all the data back to the socket, regarding that it has been received, so there is no traffic problem caused by many packets, but real time cannot be ensured.</p>
KeepAlive	60	<p>Check the network status every set number of seconds after socket connection and terminate or reset the socket connection if network failure is determined.</p> <p>Deactivated when set to 0.</p> <p>KeepAlive is applied when using as TCP Server, Client.</p>

5. Certification

- KC

Number: R-R-STB-BASSO1010UW

Item: KN 301 489-1, KN 301 489-17

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