

# **WLAN Device Setting Guide**

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## Precautions

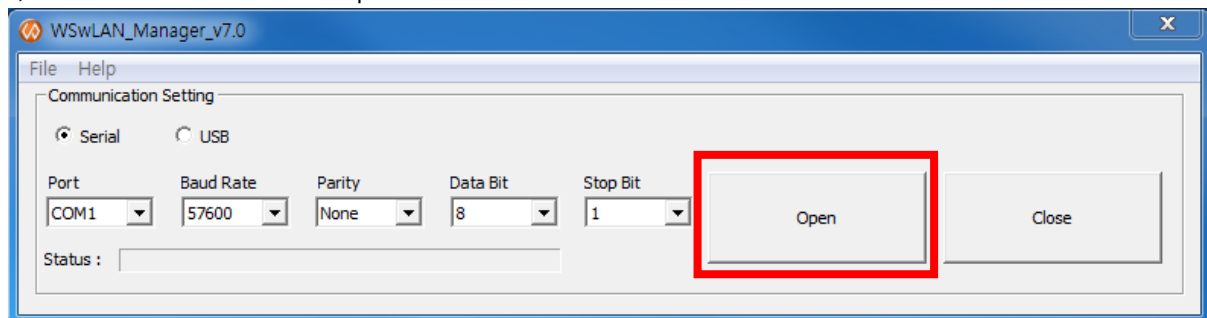
- This program assumes serial port connection or USB connection.
- Serial port connection printer
  - If user computer has only USB port, USB-Serial convert cable is required. Installing dedicated driver could be needed with the type of USB-Serial converter. USB-Serial converter cable is not included in the standard accessory set.
  - When printer communicates with setting program, the baud rate of the setting program should be same as the one of the printer. If the baud rate is unclear, it can be checked on the self-test. To print self-test, turn on the power of the printer while holding down <FEED> button
- USB connection printer
  - Separate drivers or software are not required to be installed, and printer device is automatically detected after connecting the printer to PC with USB cable.
  - No need to set baud rate.
- VCP USB connection printer
  - Some printer which has USB port may need a VCP driver. It uses USB port and cable but works internally same as serial connection.  
If a VCP driver should be installed, refer to "VCP Driver Installation Guide".

# 1. Using WLAN Module Setting Tool

There are two setting depending on the Wi-Fi Module

1) After power on, contact communication cable to the PC

2) Select Port and Click <Open> button



## WLAN Module Type 1.

- 1) If connection is successful, Click <Read WLAN Info> button

The screenshot shows the WSwLAN\_Manager\_v7.0 application window. It contains several sections for configuring and managing WLAN settings:

- WLAN Information:** Includes fields for Printer Status, Version, and MAC Address. A red rectangle highlights the **Read WLAN Info** button, with a **Save WLAN Info** button next to it.
- WLAN Basic Setting:** Includes dropdowns for WLAN Mode (Access Point mode), Operating Mode (Auto), and Channel (1). It also has text fields for SSID (WOOSIM), Key, Port (9100), and a dropdown for Region (KR - Republic of Korea).
- Infrastructure Mode:** A section with a checkbox for DHCP and fields for IP, NetMask, Gateway, and DNS, all currently set to 0.
- Access Point Mode:** A section with fields for IP (192 . 168 . 10 . 1), NetMask (255 . 255 . 255 . 0), and Gateway (192 . 168 . 10 . 1).
- WLAN Security Setting:** Includes radio buttons for None, WEP, and WPA. The WPA option is selected.
- WEP:** A section with a dropdown for WEP key (WEP-64bits) and radio buttons for Key1, Key2, Key3, and Key4.
- WPA:** A section with dropdowns for Encryption (WPA2 PSK) and Cipher (AES).

- 1) Set the WLAN data, Click <Save WLAN Info> button.

The screenshot displays the WSwLAN\_Manager\_v7.0 application window. It features several sections for configuring WLAN settings:

- WLAN Information:** Includes fields for Printer Status (Read Success), Version (4181), and MAC Address (84:72:07:39:b8:18). To the right are buttons for "Read WLAN Info" and "Save WLAN Info", with the latter highlighted by a red rectangle.
- WLAN Basic Setting:** Contains dropdown menus for WLAN Mode (Infrastructure mode), Operating Mode (Auto), and Channel (1). It also includes text fields for SSID (WOOSIM), Key, Port (9100), and a dropdown for Region (KR - Republic of Korea).
- Infrastructure Mode:** A section with a checked "DHCP" checkbox and input fields for IP (192 . 168 . 0 . 13), NetMask (255 . 255 . 255 . 0), Gateway (192 . 168 . 0 . 1), and DNS (168 . 126 . 63 . 1).
- Access Point Mode:** A section with input fields for IP (192 . 168 . 10 . 1), NetMask (255 . 255 . 255 . 0), and Gateway (192 . 168 . 10 . 1).
- WLAN Security Setting:** Includes radio buttons for "None" (selected), "WEP", and "WPA". Below these are two sub-sections:
  - WEP:** Features a "WEP key" dropdown (set to WEP-64bits) and four radio buttons for Key1, Key2, Key3, and Key4.
  - WPA:** Features an "Encryption" dropdown (set to WPA2 PSK) and a "Cipher" dropdown (set to AES).

- Basic Setting

WLAN	Network type to connect Infrastructure Mode: connect device through Access Point Access Point Mode: connect device as Access Point Access Point Mode is used to make a client antenna works as either a Access Point, or a client.
Port	Port number of waiting. Default value is 9100
SSID	Service set ID to connect (maximum 32 bytes) Default value : WOOSIM
Operating Mode	2.4GHz/5GHz/AUTO
Region	Set WLAN country code
Channel	Set WLAN channel

- Station Mode

DHCP	Check if user wants to receive IP address of printer via DHCP
IP Address	IP address of printer
NetMask	Subnet Mask
Gateway	Gateway's IP address
DNS	Domain name system

- Soft AP Mode

IP Address	IP address of printer
NetMask	Subnet Mask
Gateway	Gateway's IP address

- Security Setting

Security	Encryption type (None / WEP / WPA)
WEP Type	Select WEP-64bits or WEP-128bits
Key	WEP-64bit: 5 bytes fixed length key should be entered. WEP-128bit: 13 bytes fixed length key should be entered. WPA: 8 ~ 63 bytes variable length key can be entered.

## WLAN Module Type 2.

- 2) If connection is successful, Click <Read WLAN Info> button

The screenshot shows the WSwLAN\_Manager\_v7.0 application window. It contains several sections for configuring WLAN settings:

- WLAN Information:** Includes fields for Printer Status, Version, and MAC Address. To the right are two buttons: "Read WLAN Info" (highlighted with a red rectangle) and "Save WLAN Info".
- WLAN Basic Setting:** Includes a dropdown for WLAN Mode (set to "Access Point mode"), a text field for SSID, a text field for Port, and a dropdown for Region (set to "SG:Singapore").
- Infrastructure Mode:** Includes a checkbox for DHCP. Below it are four text fields for IP, NetMask, Gateway, and DNS, each containing "0 . 0 . 0 . 0".
- Access Point Mode:** Includes a label "IP Address : 192.168.xx.1 (fixed)", a checkbox for IP Address (checked), a text field for IP Address containing "192 . 168 . 10 . 1", a checkbox for mDNS, a text field for Host Name, and another text field containing "HostName".
- WLAN Security Setting:** Includes radio buttons for security modes: None (selected), WEP (Open/Shared), WPA-PSK, WPA2-PSK, and WPA WPA2-PSK. Below these are dropdowns for WEP Type (set to "WEP-128bits") and Data Type (set to "ASCII"), and a text field for Key. At the bottom, a note states: "ASCII : WEP 64bit : 5 characters(fixed) / WEP 128bit : 13 characters(fixed) / WPA-PSK, WPA2-PSK : 8 ~ 63 characters".



- 1) Set the WLAN data, Click <Save WLAN Info> button.

The screenshot displays the WSwLAN\_Manager\_v7.0 application window. It features several configuration sections:

- WLAN Information:** Includes fields for Printer Status (Read Success), Version, and MAC Address (AC-3F-A4-38-3C-A0). To the right are buttons for "Read WLAN Info" and "Save WLAN Info", with the latter highlighted by a red rectangle.
- WLAN Basic Setting:** Contains "WLAN Mode" (Infrastructure mode), "Port" (9100), "SSID" (WOOSIM), and "Region" (KR:Republic of Korea).
- Infrastructure Mode:** Includes a checked "DHCP" checkbox and fields for IP (192 . 168 . 1 . 21), NetMask (255 . 255 . 255 . 0), Gateway (192 . 168 . 1 . 1), and DNS (0 . 0 . 0 . 0).
- Access Point Mode:** Includes an unchecked "IP Address" checkbox with a fixed address of 192.168.xx.1, an unchecked "mDNS" checkbox, and a "Host Name" field.
- WLAN Security Setting:** Features radio buttons for security protocols (None, WEP (Open/Shared), WPA-PSK, WPA2-PSK, WPA WPA2-PSK), "WEP Type" (WEP-128bits), "Data Type" (ASCII), and a "Key" field. A note at the bottom specifies character requirements for each protocol.

- Basic Setting

WLAN	<p>Network type to connect</p> <p>Station mode: connect device through Access Point</p> <p>Soft AP mode: connect device as Access Point</p> <p>Soft AP is used to make a client antenna works as either a Access Point, or a client.</p>
Port	Port number of waiting. Default value is 1470
SSID	<p>Service set ID to connect (maximum 32 bytes)</p> <p>Default value in Station mode : woosim</p> <p>Default value in Soft AP mode : woosimap</p>
Region	Set WLAN country code

- Station Mode

DHCP	Check if user wants to receive IP address of printer via DHCP
IP Address	IP address of printer
NetMask	Subnet Mask
Gateway	Gateway's IP address
DNS	Domain name system

- Soft AP Mode

Server IP	<p>Set the server IP. (Default : 192.168.10.1 )</p> <p>192.168.<b>xx</b>.1: IP address can be changed only the third item (xx marked part).</p>
mDNS	<p>multicast Domain Name System</p> <p>Check if user wants to assign host name for the device.</p>
Host Name	User assigned unique device name in the connected network (maximum 32 bytes)

- Security Setting

Security	Encryption type (None / WEP / WPA-PSK / WPA2-PSK / WSP WSP2-PSK)
WEP Type	Select WEP-64bits or WEP-128bits
Key	<p>WEP-64bit: 5 bytes fixed length key should be entered.</p> <p>WEP-128bit: 13 bytes fixed length key should be entered.</p> <p>WPA: 8 ~ 63 bytes variable length key can be entered.</p>