Wireless AP Managed Switch

with 10/100/1000Mbps 802.3at PoE+

WS-1032P

Quick Installation Guide

Table of Contents

1. Package Contents

Thank you for purchasing PLANET Wireless AP Managed Switch with 10/100/1000Mbps 802.3at PoE+.

Model No.	PoE	10G SFP+
WS-1032P	8 ports	2 ports

The **Wireless AP Managed Switch** includes an AP Controller feature. The AP Controller mentioned in this Quick Installation Guide refers to the **Wireless AP Managed Switch**.

Open the box of the AP Managed Switch and carefully unpack it. The box should contain the following items:

- The AP Managed Switch
- Quick Installation Guide Sheet
- RJ45 to RS232 Cable
- Rubber Feet
- Two Rack-mounting Brackets with Attachment Screws
- Power Cord
- SFP Dust-proof Caps

If any item is found missing or damaged, please contact your local reseller for replacement.

2. Requirements

- **Workstations** running Windows 7/8/10/11, macOS 10.12 or later, Linux Kernel 2.6.18 or later, or other modern operating systems are compatible with TCP/IP Protocols.

- Workstations are installed with Ethernet NIC (Network Interface Card)

- **Serial Port Connection** (Terminal)

  - ➢ The above Workstations come with COM Port (DB9) or USB-to-RS232 converter.

  - ➢ The above Workstations have been installed with **terminal emulator**, such as Tera Term, PuTTY or Hyper Terminal included in Windows XP/2003.

  - ➢ Serial cable -- one end is attached to the RS232 serial port, while the other end to the console port of the AP Managed Switch.

- **Ethernet Port Connection**

  - ➢ Network cables -- Use standard network (UTP) cables with RJ45 connectors.

  - ➢ The above PC is installed with Web browser and JAVA runtime environment plug-in.

3. Starting Web Management

The following shows how to start up the **Web Management** of the AP Managed Switch. Note the AP Managed Switch is configured through an Ethernet connection. Please make sure the manager PC must be set to the same **IP subnet address**.

For example, the default IP address of the AP Managed Switch is *192.168.1.100*, then the manager PC should be set to **192.168.1.X** (where **X** is a number between 1 and 254, except 100), and the default subnet mask is 255.255.255.0.
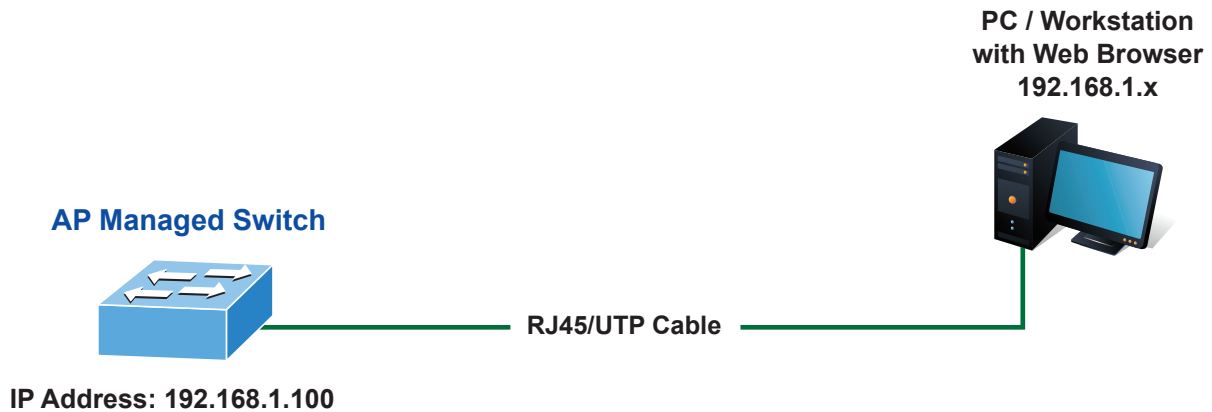

Figure 3-1: IP Management Diagram

3.1 Logging to the Web UI

1. Use Chrome (recommended) or other Web browser to enter IP address **https://192.168.1.100** (the factory default IP address or the one that you have just changed via the console) to access the Web interface.

	The following console screen is based on the firmware version before **July of 2024**.
Note	

2. When the following dialog box appears, please enter the default user name and password **"admin"** (or the password you have changed via the console). The login screen in Figure 3-2 appears.

Default IP Address: **192.168.1.100**
Default Username: **admin**
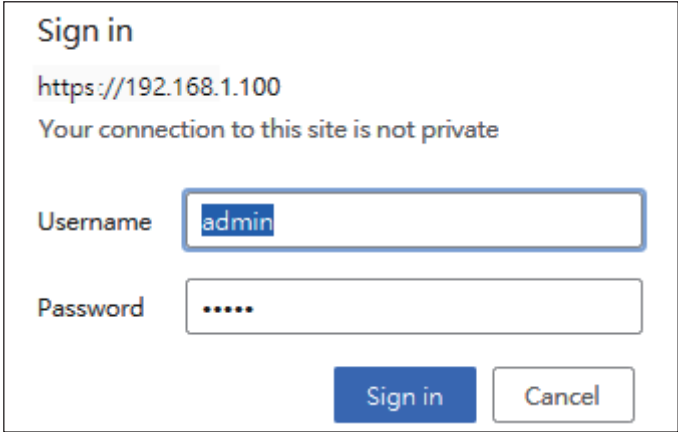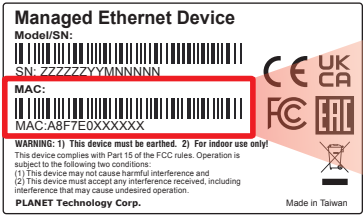Default Password: **admin**

Figure 3-2: Login Screen

	The following console screen is based on the firmware version of **July of 2024 or after**.
Note	

3. When the following dialog box appears, please enter the default user name and password. Refer to **Section 3.1** to determine your initial login password.
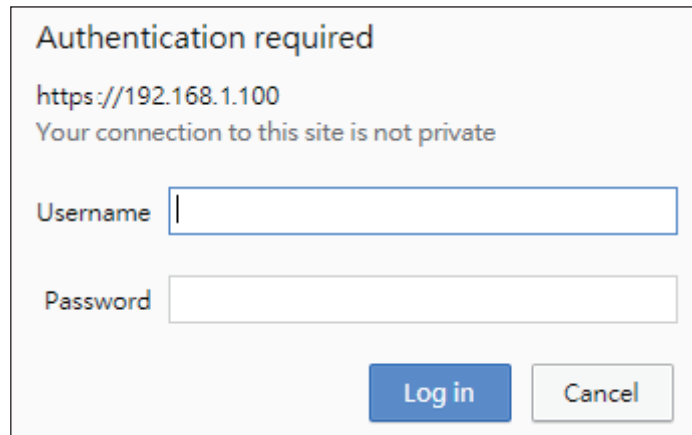
Default IP Address: **192.168.1.100**
Default Username: **admin**
Default Password: **sw + the last 6 characters of the MAC ID in lowercase**

4. Find the MAC ID on your device label. The default password is "sw" or "mc" followed by the last six lowercase characters of the MAC ID.

MAC ID: A8F7E0XXXXXX
Default Password: swxxxxxx
("x" means the last 6 digits of the MAC address. All characters should be in lowercase.)

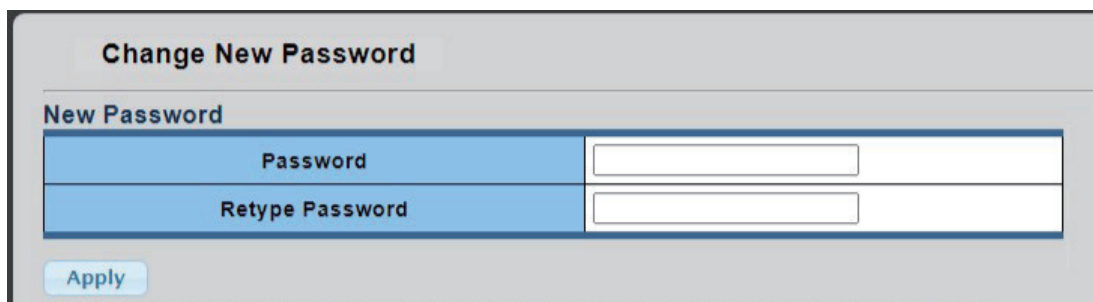**Figure 3-3:** Industrial Managed Switch MAC ID Label

Figure 3-4: Login Screen

	It is recommended to use **Google Chrome** to access the AP Managed Switch. If the Web interface of the AP Managed Switch is not accessible, please turn off the anti-virus software or firewall and then try it again.
Note	

5. After entering the password, the main screen appears as Figure 3-3 shows.

Figure 3-5: Create a New Password

6. Enter the default username and password, then set a new password according to the rule-based prompt and confirm it. Upon success, press any key to return to the login prompt. Log in with "admin" and the "new password" to access the Web interface.

Figure 3-6: Web Main Screen

The main menu on the top of the web page lets you access all the commands and statistics the AP Managed Switch provides. The menu contains one or more buttons, such as **"AP Control"**, **"System"**, **"Switching"**, **"QoS"**, **"Security"**, **"Maintenance"**, **"PoE"** and **"Ring"**.

Figure 3-7: Main menu

The sub-menu on the left of the web page lets you access all the commands and statistics the AP Managed Switch provides.
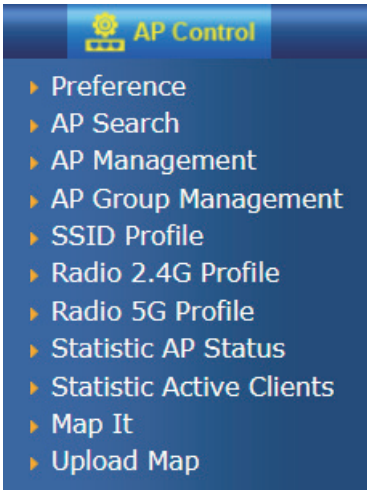

Figure 3-8: Sub-menu of AP Control

Now, you can use the Web management interface to continue the AP management. Please refer to the user's manual for more details.

3.2 Function Icons

The function icons on the upper-right corner of the web page lets you quickly execute major system commands that include **"Refresh"**, **"Save Configuration"**, **"Help"** and **"Logout"**.
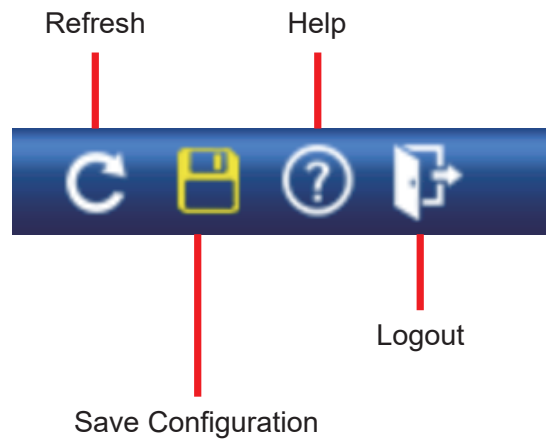

Figure 3-9: Function Icons

Item	Description
Refresh	Click **"Refresh"** to update the current page content.
Save Configuration	Click **"Save Configuration"** to save all applied changes and set the current configuration as a startup configuration.
Help	Click **"Help"** to show the content description of the current page.
Logout	Click **"Logout"** to log out the system.

4. Starting AP Management

There are different models including indoor and outdoor AP series that can be managed by AP Managed Switch.

Note	Please regularly check PLANET website for the latest managed AP compatibility list.

For the AP models that do not support DHCP IP, please configure them to use a different static IP before connecting them to the same managed network.

If you prefer to use DHCP IP for the AP models that support DHCP IP, please ensure the DHCP server exists in the managed network.

Step 1. In the AP Managed Switch, go to **"System ➡ DHCP Server ➡ Mode"** page to enable DHCP server and then go to **"Maintenance ➡ Switch Maintenance ➡ Save Startup Config"** to click **"Save Configuration"**.

Figure 4-1: DHCP Server

Figure 4-2: Save Configuration

Note	If you have configured the AP to **static IP** or the **DHCP server is already existed** in the managed network, ignore this step and continue the AP management according to the following steps.

Step 2. Go to the **"AP Search"** page and then click **"Search"** to discover the managed AP.

Step 3. In the **"Select Device"** field, check the AP and then click **"Apply"**.

Figure 4-3: AP Search

Step 4. Then, you can go to the **"AP Management"** page to configure the general setting and designate the pre-defined profiles to the managed AP without logging on to the AP's web page.

Figure 4-4: AP Management

For information about further configuration of the Managed AP by using AP Managed Switch, refer to the user manual of the AP Managed Switch models.

Step 5. The WS AP controller series must be assigned a **gateway** in the **same segment network. (default:192.168.1.254)**.

Figure 4-5: IP Configuration setting

5. Terminal Setup

To configure the system, connect a serial cable to a **COM port** on a PC or notebook computer and to the RJ45 type of the console port of the AP Controller.
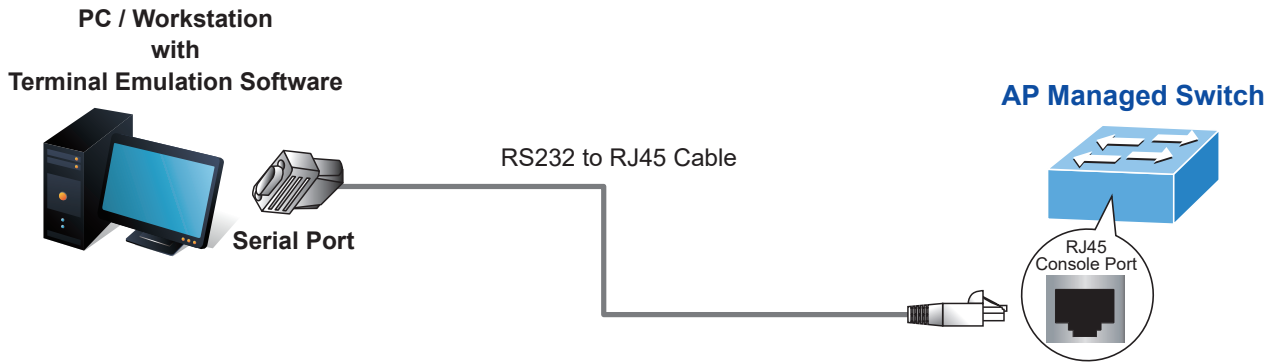
PC / Workstation
with
Terminal Emulation Software

AP Managed Switch

RS232 to RJ45 Cable

Serial Port

RJ45
Console Port

Figure 5-1: AP Controller Console Connectivity

A terminal program is required to make the software connection to the AP Controller.

1. Run terminal program **"Tera Term"** on the OS.

2. When the following screen appears, make sure that the COM port should be configured as:

- Baud: 115200
- Data bits: 8
- Parity: None
- Stop bits: 1
- Flow control: None

Tera Term: Serial port setup

Port:	COM3
Baud rate:	115200
Data:	8 bit
Parity:	none
Stop:	1 bit
Flow control:	none

OK
Cancel
Help

Transmit delay
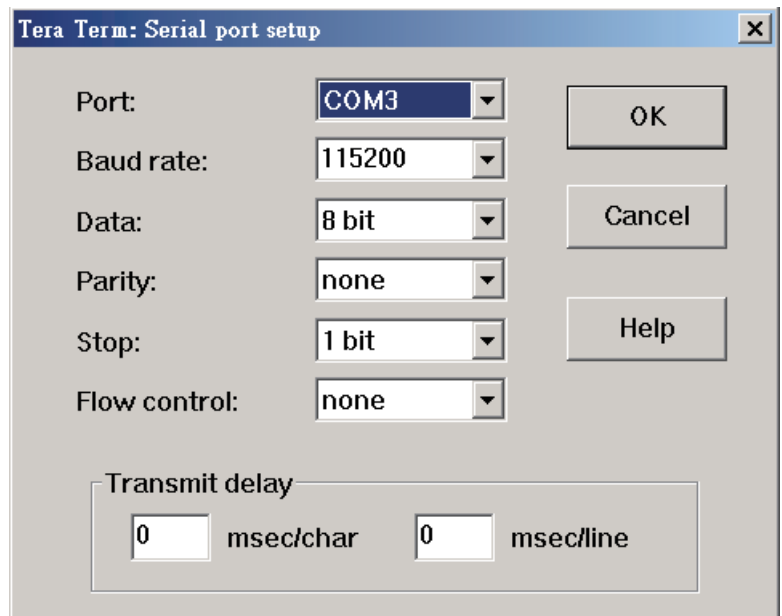0 msec/char   0 msec/line

Figure 5-2: COM Port Configuration

5.1 Logging on to the Console

Once the terminal is connected to the device, power on the AP Managed Switch and the terminal will display "running testing procedures". Then, the following message asks to log in user name and password. The factory default user name and password are shown as follows, and the login screen in Figure 5-3 appears.

Note	he following console screen is based on the firmware version before **July of 2024**.

Username: **admin**
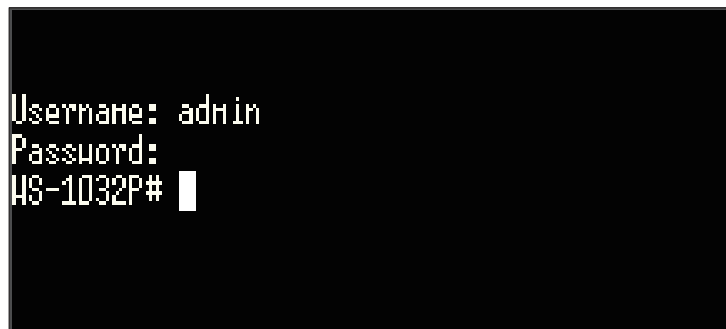Password: **admin**

Figure 5-3: Console Login Screen

The user can now enter commands to manage the AP Managed Switch. For a detailed description of the commands, please refer to the following chapters.

Note	1. For security reason, please change and memorize the new password after this first setup. 2. Only accept command in lowercase letter under console interface.

<table>
<tr>
<td>Note</td>
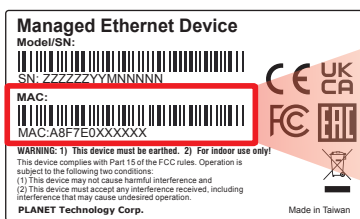<td>The following console screen is based on the firmware version of **July of 2024 or after**.</td>
</tr>
</table>

Username: **admin**
Password: **sw + the last 6 characters of the MAC ID in lowercase**

Find the MAC ID on your device label. The default password is "sw" followed by the last six lowercase characters of the MAC ID.

Managed Ethernet Device
Model/SN:
SN: ZZZZZZYYMNNNNN
MAC:
MAC:A8F7E0XXXXXX
WARNING: 1) This device must be earthed. 2) For indoor use only!
This device complies with Part 15 of the FCC rules. Operation is
subject to the following two conditions:
(1) This device may not cause harmful interference and
(2) This device must accept any interference received, including
interference that may cause undesired operation.
PLANET Technology Corp.   Made in Taiwan

MAC ID: A8F7E0XXXXXX
Default Password: swxxxxxx
("x" means the last 6 digits of the MAC address.
All characters should be in lowercase.)

Figure5-4: MAC ID Label

Enter the default username and password, then set a new password according to the rule-based prompt and confirm it.


```
(New)Password: ********
Verify (New)Password: ********
Success.
Press any key to continue
Username: admin
Password: ********
```
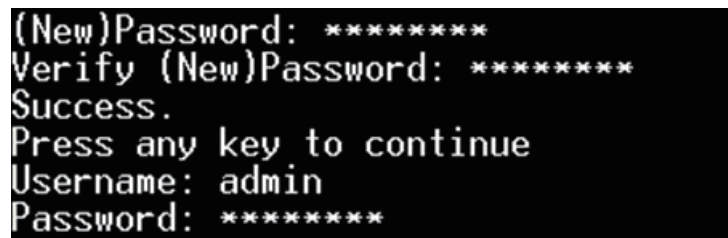
Figure 5-5: Industrial Managed PoE+ Switch Console Login Screen

The user can now enter commands to manage the Industrial Managed Switch. For a detailed description of the commands, please refer to the following sections.

5.2 Configuring IP Address

The AP Managed Switch is shipped with default IP address shown below.

IP Address: **192.168.1.100**
Subnet Mask: **255.255.255.0**

To check the current IP address or modify a new IP address for the AP Managed Switch, please use the procedure as follows:

■ **Showing the current IP Address**

1. At the **"#"** prompt, enter **"show ip interface brief"**.

2. The screen displays the current IP address as shown in Figure 5-6.

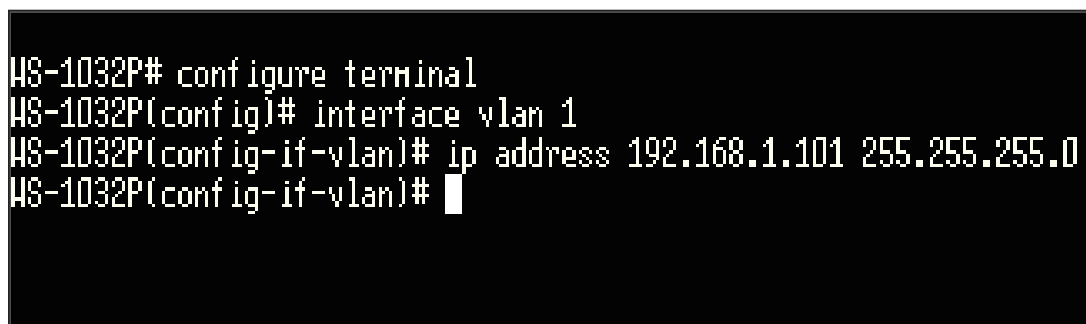**Figure 5-6:** IP Information Screen

■ Configuring IP Address

3. At the "#" prompt, enter the following command and press **<Enter>** as shown in Figure 5-5.

WS-1032P# **configure terminal**
WS-1032P(config)# **interface vlan 1**
WS-1032P(config-if-vlan)# **ip address 192.168.1.101 255.255.255.0**

The previous command would apply the following settings for the AP Managed Switch.

IP Address: 192.168.1.101
Subnet Mask: 255.255.255.0

Figure 5-7: IP Address Screen

4. Repeat Step 1 to check if the IP address is changed.

■ Storing current configuration

5. At the **"#"** prompt, enter the following command and press **<Enter>**.

 # copy running-config startup-config

```
WS-1032P# copy running-config startup-config
Building configuration...
% Saving 3087 bytes to flash:startup-config
WS-1032P#
```

Figure 5-8: Saving Current Configuration

If the IP is successfully configured, the AP Managed Switch will apply the new IP address setting immediately. You can access the Web interface of the AP Managed Switch through the new IP address.

Note	If you are not familiar with the console command or the related parameter, enter **"help"** anytime in console to get the help description.

6. Recovering Back to Default Configuration

■ **IP Address has been changed or admin password has been forgotten –**

To reset the IP address to the default IP Address **"192.168.1.100"** or reset the login password to default value, press the hardware-based **reset button** on the front panel for about **10 seconds**. After the device is rebooted, you can log in the management Web interface within the same subnet of 192.168.1.xx.
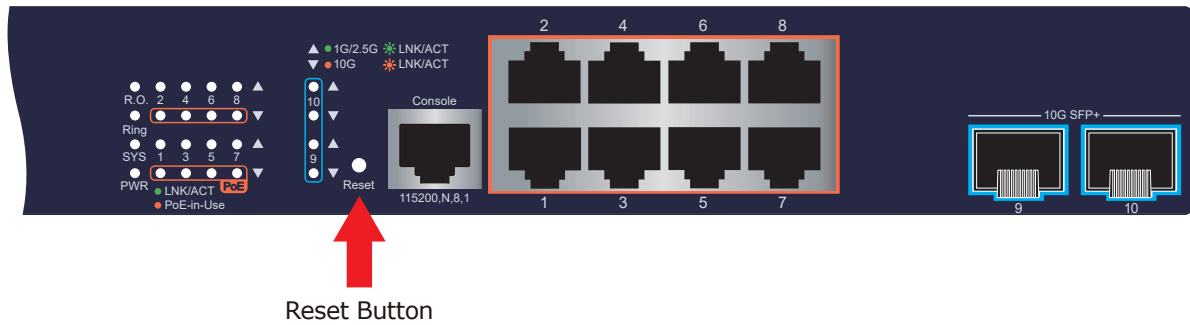

Reset Button

Figure 6-1: Reset button of WS-1032P

7. Customer Support

Thank you for purchasing PLANET products. You can browse our online FAQ resource and User's Manual on PLANET Web site first to check if it could solve your issue. If you need more support information, please contact PLANET support team.

PLANET online FAQs:
https://www.planet.com.tw/en/support/faq

Support team mail address
support@planet.com.tw

WS-1032P User's Manual:
https://www.planet.com.tw/en/support/downloads?&method=keyword&keyword=WS&view=3#list

WS-1032P QR Code: