Access Point
SX-AP-4800AN2
Setup Guide

Thank you for purchasing the Access Point SX-AP-4800AN2.

SX-AP-4800AN2 is the Access Point that supports IEEE 802.11a/b/g/n (up to 300Mbps data rate can be achieved) and can be used as a base station to connect your wireless client devices each other. In addition to high performance wireless connectivity, enterprise-level wireless security and power supply via PoE (Power over Ethernet) are supported.

This Setup Guide explains how to configure and use SX-AP-4800AN2 on your wireless environment.

silex technology

WA105940XX

Package Contents
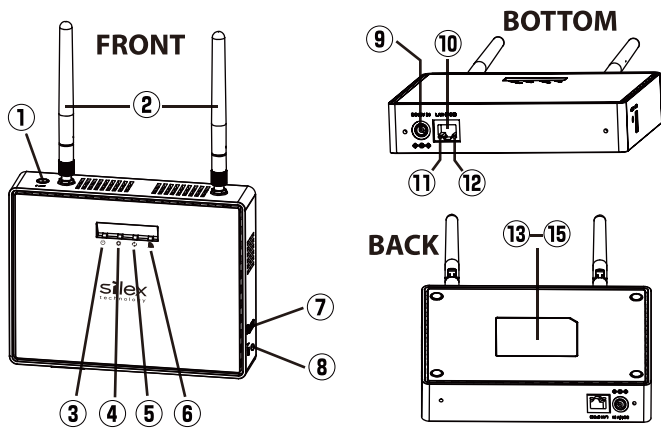
Following items are bundled with SX-AP-4800AN2.

☐ Access Point SX-AP-4800AN2
☐ AC adaptor
☐ Warranty booklet
☐ GPL license notice
☐ Wireless LAN antenna（2pcs）
☐ Rubber feet (4pcs)
☐ Setup Guide (this document)

Necessary Items
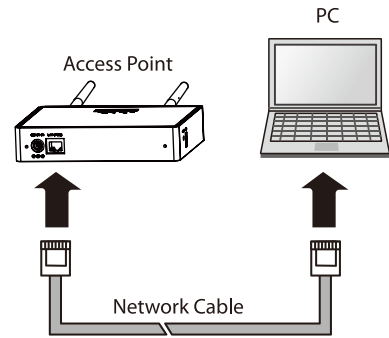
Following items are required.

☐ Network Cable
☐ PC

Parts and Function
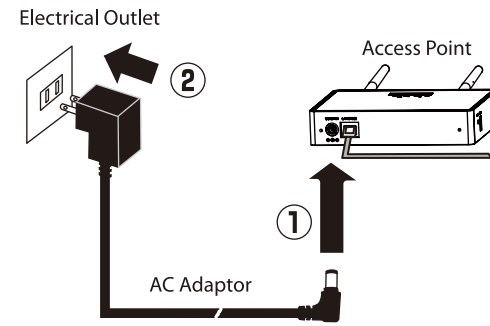
FRONT

BOTTOM

BACK

①	Smart Wireless Setup Switch (SET2)	When pressed together with the one on your wireless device while SX-AP-4800AN2 is active, wireless configuration can be performed. (Smart Wireless Setup)
②	Wireless LAN Antenna	Wireless antenna for wireless communication
③	⏻ Power LED(Green/Orange)	BLINK(Orange): Powering on ON(Green): Ready OFF: Powered off
④	⚙ Mode LED(Green/Orange/Red)	BLINK(Orange): Running in **Configuration Mode** BLINK(Green): Smart Wireless Setup is in progress ON(Green): Smart Wireless Setup is completed (* Turns off in 3 mins) ON(Red): Smart Wireless Setup failed (* Turns off in 3 mins)
⑤	Band LED(Green/Red)	ON(Green): Communicating in 2.4GHz band ON(Red): Communicating in 5GHz band OFF: Wireless communication disabled
⑥	WSTAT LED(Green/Red)	BLINK(Green): Wireless data communication is active BLINK(Red): DFS is running (Communication is disabled then)
⑦	USB Port	Connect a USB cable (A-type connector).
⑧	Push Switch (SET1)	Start in **Configuration Mode**: Press and hold this switch for more than 3 sec while SX-AP-4800AN2 is active. Factory default configuration: Press and hold this switch for more than 5 sec while turning on SX-AP-4800AN2.
⑨	AC Connector	Connect an AC adaptor.
⑩	Network Port	Connect a network cable.
⑪	Link LED (Green)	Turns on when connected to a wired LAN.
⑫	Status LED(Yellow)	Blinks while communicating in a wired LAN.

⑬	Label (containing default values)
	  SSID
	  Key
	  Authentic
	  Encryption
	  PIN Code
	  Password
	  IP Address
		
		SSID (default value)
		Network key (default value)
		Authentication mode (default value)
		Encryption mode (default value)
		PIN code (default value)
		Login password (default value)
		IP Address (default value)

⑭	E/A	Ethernet Address
⑮	S/N	Serial Number

Step1　Before You Begin

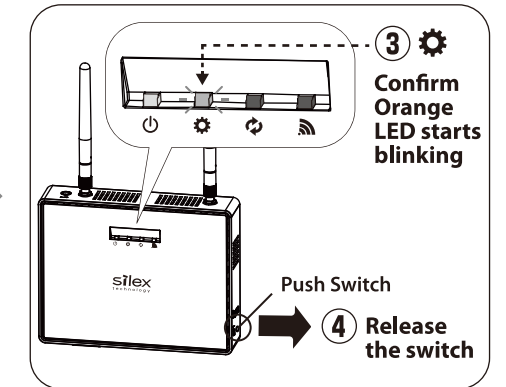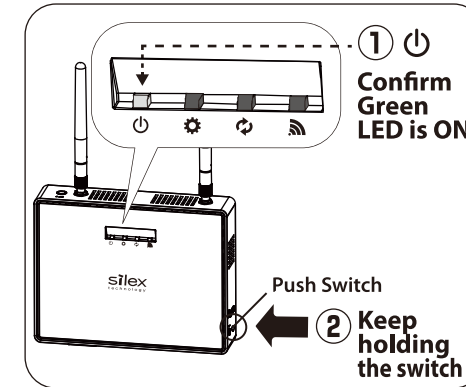**1** Connect SX-AP-4800AN2 and the PC (to use for setup) using a network cable.

PC

Access Point

Network Cable

*If wireless LAN is enabled on your PC, please disable it.

2 Connect the AC adapter to SX-AP-4800AN2 and the AC adapter's plug to an electrical outlet.

Electrical Outlet

Access Point

AC Adaptor

3 When the front Power LED (⏻) starts blinking in Orange and then turns on to Green, press and hold the push switch with a fine tipped object such as a pen or pencil . Release the push switch when Mode LED (⚙) starts blinking in Orange (It may take 3sec until blinking). SX-AP-4800AN2 will start running in the **Configuration Mode** and you will be ready to configure SX-AP-4800AN2 from the PC.

① ⏻ **Confirm Green LED is ON**

Push Switch

② **Keep holding the switch**

③ ⚙ **Confirm Orange LED starts blinking**

Push Switch

④ **Release the switch**

Step2　Initial Configuration

1 Check that SX-AP-4800AN2 can communicate with the PC.

1. Confirm that an IP Address is properly configured on the PC.

How to check on Windows 7

* See the tasktray icon ( ) to check wired LAN is enabled on the PC.

2. Confirm that a wireless LAN is disabled on the PC.

2 Start a Web browser on the PC you are using for the setup. When the login password configuration page appears, enter the password to configure for SX-AP-4800AN2 and click **Submit**.

* The login password configuration page is displayed only when SX-AP-4800AN2 is configured for the first time.

* If the Web page is not displayed, enter "**http://silex**" in the address bar of the Web browser and press the **Enter** key.
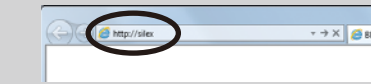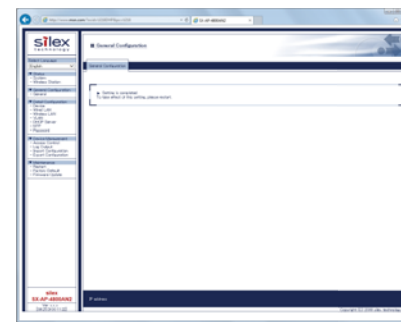
3 The login page is displayed. Enter the login password you have configured and click **Login**.
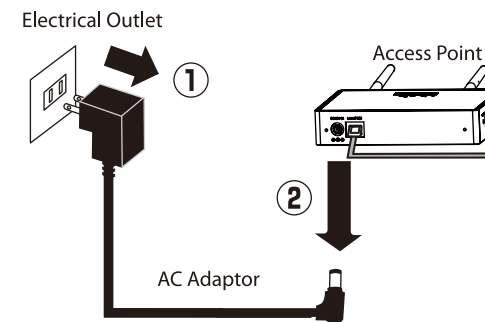
4 In the Web page, configure the necessary settings. For details on each setting, see **Basic Configuration** on the backside. When finished, click **Submit**.
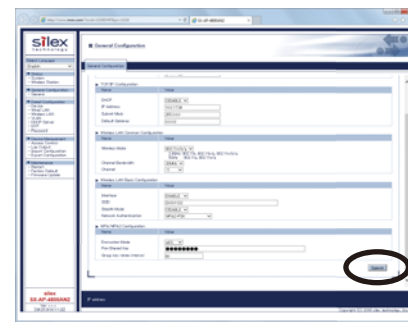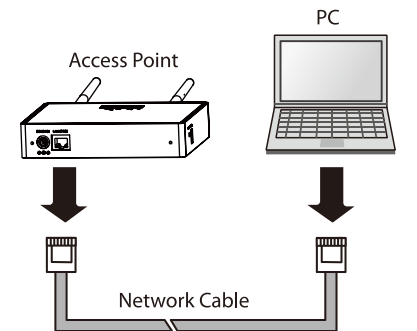
5 If "**Setting is completed**" is displayed, the configuration is finished.

6 Unplug the AC plug from the outlet and then AC adaptor from SX-AP-4800AN2.
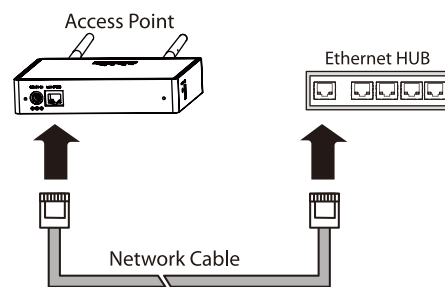
Electrical Outlet

Access Point

AC Adaptor

7 Unplug the network cable from SX-AP-4800AN2 and PC.

Access Point

PC

Network Cable

Step3 Connect to Network

1 Connect SX-AP-4800AN2 to the Ethernet Hub using a network cable.

Access Point

Ethernet HUB

Network Cable

2 Connect the AC adaptor to SX-AP-4800AN2 and the AC adaptor's plug to the electrical outlet.

Electrical Outlet

Access Point

AC Adaptor
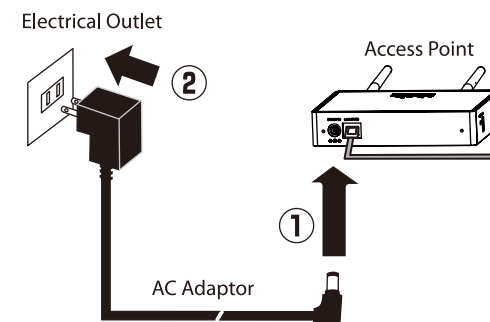
How to display the Web page after completion of initial configuration

After the initial configuration is completed, the Web page can be displayed by the method below.

1 Enter the IP Address of SX-AP-4800AN2 to the address bar of the Web browser and press **Enter** key.

2 The login page is displayed. Enter the login password you have configured and click **Login**.

Basic Configuration

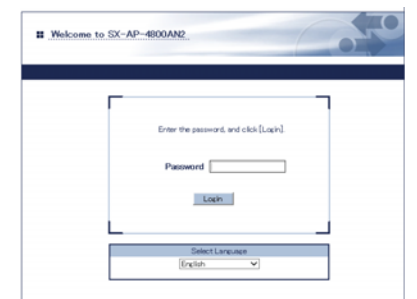| General	Host Name	Set a Host Name for SX-AP-4800AN2. The host name must be a unique name that is not used by other devices.
	DHCP	Enable/Disable the DHCP protocol. To assign an IP address using DHCP, the DHCP server must be running in your subnetwork.
	IP Address	Set an IP address. If DHCP is enabled, IP address obtained from it will be applied.
	Subnet Mask	Set a subnet mask. If DHCP is enabled, the subnet mask obtained from it will be applied.
	Default Gateway	Set a gateway address. If "0.0.0.0" is set, this setting is disabled. If DHCP is enabled, the default gateway obtained from it will be applied.
	Wireless Mode	Select a wireless mode from 802.11b, 802.11b/g, 802.11n/b/g, 802.11a, 802.11n/a.
	Channel Bandwidth	Set the frequency bandwidth. This setting is necessary when using 802.11n/b/g or 802.11n/a. In a wireless network, bandwidth is divided up so that more devices can communicate at a time. Each section of bandwidth is called a ' channel ' and each channel has a bandwidth of 20MHz. If 40MHz is selected, larger and faster data transmission can be realized.
	Channel	Set the wireless channel. A channel is the divided frequency bandwidth. In a wireless network, bandwidth is divided up so that more devices can communicate at a time.
	Ext Channel	When the channel bandwidth is set to 40MHz, extended channel is displayed.
	Interface	Enable/Disable each wireless interface.
	SSID	Set an SSID. The SSID is an ID that logically distinguishes one wireless LAN network from another. Wireless devices must have the same SSID to communicate with each other.
	Stealth Mode	Enable/Disable the Stealth Mode.
	Network Authentication	Select a network authentication mode used to communicate with your wireless device. To ensure a secure network, it is recommended to use WPA/WPA2. For IEEE 802.11n, only AES can be used.
	Open (Open System) :	Allows all access without authentication. For encryption mode, WEP can be used.
	Shared : (Pre-Shared Key)	Uses WEP key for encryption and allows access only from those with the same WEP key. For encryption mode, WEP can be used.
	WPA-PSK :	Uses PSK for network authentication. For encryption mode, TKIP/AES/AUTO can be selected. The encryption key will be generated by communicating with your wireless device using a Pre-Shared key. WEP key setting is not used for this mode.
	WPA2-PSK :	Uses PSK for network authentication. For encryption mode, AES can be selected. The encryption key will be generated by communicating with your wireless device using a Pre-Shared key. WEP key setting is not used for this mode.
	WPA/WPA2-PSK :	Uses both WPA-PSK and WPA2-PSK authentication.
	802.1x :	Uses 802.1x user authentication and WEP encryption.
	WPA-Enterprise :	Uses 802.1x user authentication and TKIP/AES/AUTO encryption.
	WPA2-Enterprise :	Uses 802.1x user authentication and AES encryption.
	WPA/WPA2-Enterprise :	Uses 802.1x user authentication and AES encryption.
		* When running in 802.11n, Shared and 802.1x authentication modes and WEP and TKIP encryption modes cannot be used.
	WEP	Enable/Disable the WEP encryption.
	Key Index	Set the number of the WEP key to use (1-4). This setting must be the same as that of your wireless device.
	WEP Key	Set the WEP key for WEP encryption. This setting must be the same as that of your wireless device. A WEP key must be entered using hexadecimal or alphanumeric characters. In most cases, alphanumeric characters are used. Enter 5 characters if the key size is 64bit or 13 characters if the key size is 128bit. For Hexadecimal, a value consists of numbers (0-9) and English letters (A-F). Enter a 10-digit value if the key size is 64bit or a 26-digit value if the key size is 128bit.
	Encryption Mode	Set the encryption mode to use for WPA-PSK, WPA2-PSK, WPA/WPA2-PSK, WPA-Enterprise, WPA2-Enterprise, WPA/WPA2-Enterprise. When the network authentication mode is WPA2-PSK, WPA/WPA2-PSK, WPA2-Enterprise or WPA/WPA2-Enterprise, TKIP and AUTO cannot be used.
	Pre-Shared Key	Set the Pre-Shared Key. This setting is necessary when TKIP/AES is used for encryption mode. The Pre-Shared Key is a keyword used to create the encryption key. It is also referred to as ' network key ' or ' password '. In most case, alphanumeric characters are used (8-63 characters). For Hexadecimal, a value consists of numbers (0-9) and English letters (A-F) (64 characters). * This setting must be the same as that of your wireless device.
	Group key renew interval	Set the refresh interval for Pre-Shared Key (min). If 0 is set, this setting is disabled.
	Server IP	Set the IP Address of the RADIUS server. This can be set only when the network authentication is 802.1x, WPA-Enterprise, WPA2-Enterprise or WPA/WPA2-Enterprise.
	Port Number	Set the port number used to communicate with the RADIUS server.
	Shared Secret	Set the secret key used to communicate with the RADIUS server.

SX-AP-4800AN2 Specifications

Operating environment	Temperature : +0 C to +40 C , +32 F to +104 F Humidity : 20% to 80%RH (Non-condensing)	
Storage environment	Temperature : -10 C to +50 C , +14 F to +122 F Humidity : 20% to 90%RH (Non-condensing)	
EMI	VCCI Class B FCC Part15 SubPart B Class B EN55022 ICES-003 Class B	
CPU	32bit RISC CPU	
Memory	RAM : 64MByte FlashROM : 16MByte	
Wired network interface	10BASE-T/100BASE-TX/1000BASE-T (Auto-sensing) : 1 port Auto MDI/MDIX Power over Ethernet(PoE)	
Wireless network interface	IEEE802.11a/b/g/n (For channels you can use, check the regulations in your country.)	
Antenna	Non-directional antenna	
USB interface	USB2.0 Hi-Speed port (A type) : 1 port	
Push Switch	2	For Smart Wireless Setup : 1 For initialization : 1
LED	Front	Power LED (Green/Orange) Mode LED (Green/Orange/Red) Band LED (Green/Red) WSTAT LED (Green/Red)
	Network port	Status LED (Yellow) Link LED(Green)
Max number of devices that can be connected	32 devices	
Multi SSID	4	

CE Notice

C E (!)

Tips on Troubleshooting

This section explains the troubleshooting procedures to resolve possible problems you may experience while installing SX-AP-4800AN2. Please also refer to the FAQ and the latest information about SX-AP-4800AN2 at the Silex website.

Q: An error message is displayed when accessing the Web page.

A1: Please confirm SX-AP-4800AN2 is running in **Configuration Mode**. If SX-AP-4800AN2 is running in **Configuration Mode**, Mode LED (✿) should blink in Orange. For how to start in **Configuration Mode**, refer to **Step1 Before You Begin**.

A2: Please check the IP address is properly configured to the PC you are using for the configuration. If you are using Mac OS and Safari, it may be necessary to disable **Web Proxy (HTTP)** at Mac OS network settings, depending on the Safari version.

How to check on Windows 7: See the tasktray icon to check the wired LAN is enabled on the PC.

A3: Please confirm the wireless LAN setting is disabled on the PC you use for configuration.

A4: While SX-AP-4800AN2 is running in **Configuration Mode**, restart the PC you used for the configuration and access the Web page again.

* Please contact our customer support in case your problem is not listed here, or cannot be resolved by the given information.

How to download user's manual and utilities:

The user's manual and utilities can be downloaded from our website :

URL: https://www.silextechnology.com/

Please go to the support section after you access the website.

Customer Support Center

Silex will support you by e-mail and phone to solve your problems.

■ Customer Support Center information

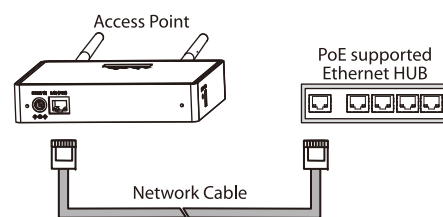|	Phone	E-mail
USA	+1-657-218-5199	support@silexamerica.com
Europe	+49-2154-88967-0	support@silexeurope.com

PoE Power Supply

SX-AP-4800AN2 can receive electrical power from the IEEE802.3af compliant power supply unit over a network cable. For details, please see the operating manual that came with your power supply devices.
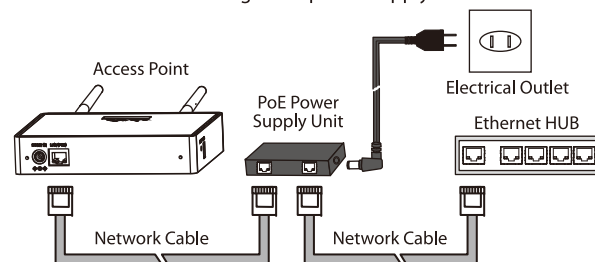
What is PoE (Power over Ethernet) ?

PoE is a technology to supply electrical power over Ethernet cable (Category 5 or above).
This technology allows you to connect your PoE supported devices to the Ethernet even in a location without electrical outlet nearby.

* When receiving power over Ethernet, you do not have to use the AC adaptor that came with SX-AP-4800AN2.
* Please remember that power is supplied from the AC adaptor if it is connected to SX-AP-4800AN2.

Sample connection1: When using a PoE supported HUB

Access Point
PoE supported Ethernet HUB
Network Cable

Sample connection2: When using a PoE power supply unit

Access Point
PoE Power Supply Unit
Electrical Outlet
Ethernet HUB
Network Cable   Network Cable