


Wireless Bridge SX-2500CG Specifications				
Operating environment		Temperature : +0℃ to +40℃ , +32℉ to +104℉ Humidity : 5% to 95%RH (Non-condensing)		
Storage environment		Temperature : -20℃ to +50℃ , -4℉ to +122℉ Humidity : 5% to 95%RH (Non-condensing)		
EMI		VCCI Class B / FCC Class B / EN55022 / EN55024		
CPU		32bit RISC CPU		
Memory		RAM : 8MByte FlashROM : 2MByte		
Wired network interface		10BASE-T/100BASE-TX 1 port. (automatic detection)		
Wireless network interface		IEEE802.11b	Frequency Transmission system Transmission speed Channel	2.4GHz DS-SS 1M/2M/5.5/11M (Automatic detection) US : 1-11ch EU : 1-13ch JP : 1-14ch
		IEEE802.11g	Frequency Transmission system Transmission speed Channel	2.4GHz OFDM 6M/12M/18M/36M/48M/54M (Automatic detection) US : 1-11ch EU : 1-13ch JP : 1-13ch
Push Switch		1		
LED		Front side	Wireless (Green) Status (Orange) Link (Green)	
		Wired connector area	10BASE/100BASE Link (Green) Status (Orange)	
Supported devices		Network devices with a network port (RJ-45) on them		
Max number of devices that can be connected		1		
Recommended Web browsers		Internet Explorer 5.5 (or higher) Safari 1.3.2 (or higher) Mozilla Firefox 2.0.0.0 (or higher) Netscape 7.1 (or higher)		

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

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.

 EN55022 Class-B
EN55024

Safety instructions regarding the radio waves

Please note the following instructions:

- Do not use this product near medical devices such as a heart pacemaker. The radio wave generated by this product may interfere with the operation of these devices and may threaten one's life.
- Do not use this product near microwave ovens. The radio wave used by microwave ovens may cause interference to this product.

This product uses a 2.4GHz band. This band of equipment is used by a microwave, industry, science, medical equipment and licensed in room or low power (non licensed) radio stations.

1. Before you use this equipment, verify that it will not interfere with other broadcasting.
2. If interference happens, stop using the equipment or change the band. Contact us to discuss ways of avoiding interference (example: create the wall).

Notes on Security

Because a wireless LAN uses electromagnetic signals instead of a network cable to establish communication with network devices, it has the advantage of allowing devices to connect to the network easily. However, a disadvantage of this is that within a certain range, the electromagnetic signals can pass through barriers such as walls, and if security countermeasures are not implemented in some way, problems such as the following may occur.

- Communication is intercepted by a third party
- Unauthorized access to the network
- Leakage of personal information (ID and Card information)
- Spoofing and the falsification of intercepted data
- System crashes and data corruption

Nowadays, wireless LAN cards or access points are equipped with security measures that address such security problems, so that you can enable security-related settings for wireless LAN products in order to reduce the likelihood of problems occurring. We recommend that you make yourself fully acquainted with the possible implications of what might happen if you use a wireless product without enabling security features, and that you configure security-related settings and use wireless products at your own responsibility.

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- Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- AirMac, AirPort, Macintosh, Mac OS and Safari are registered trademarks of Apple Inc.
- Other brand or product names are registered trademarks or trademarks of their respective owners.

User registration

After finishing the configuration for this product, please go on to the user registration on our home page. User registration is highly recommended to assure you better support for your product.

For user registration, please visit our web site at:

Global Site;	http://www.silex.jp/register/
USA Site;	http://www.silexamerica.com/us/regist/index.html
Europe Site;	https://www.silexeurope.com/euro/regist/index.html
China Site;	http://www.silex.com.cn/china/support/regist/index.html

* For user registration, a "Serial Number" is required.
The serial number is the last 6 digits of the alphanumeric characters listed on the side of the product.

Customer Support Center

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

■ Customer Support Center information

	Phone	E-mail
USA ;	+1-801-748-1199	support@silexamerica.com
Europe;	+49-(0)2159-6750-0	support@silexeurope.com
China;	+86-(0)10-6440-395	support@silex.com.cn
Japan;	+81-(0)3-3455-5155	support@silex.jp

Wireless Bridge SX-2500CG Setup Guide

Thank you for purchasing Wired LAN-to-Wireless LAN Converter, Wireless Bridge (below, "this product").
This product is a network converter that enables a network device with a network port to connect to a Wireless LAN environment. The network device can be used over the Wireless LAN environment simply by configuring the wireless settings and connecting this product to it.

This document explains the procedure to configure and use this product in a network environment.

silex
technology

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Safety instructions

To ensure safe and proper use, please read the following information carefully before using this product. The safety instructions include important information on safe handling of the product and on general safety issues. Cautions regarding the device connected to this product are also included.

[Danger]

"Danger" indicates the existence of a hazard that could result in bodily injury if the safety instruction is not observed.

- Do not allow physical impact: When damaged, unplug this product and the device from power and contact your point of purchase. Failure to take this action could cause fire or an electrical shock.
- If this product becomes hot, or you smell smoke, turn off the device, disconnect the power plug from this product, and then unplug the power cable from electric outlet immediately. If a foreign object (liquid, metal) gets into this product, turn off the device, disconnect the power plug, and then unplug the power cable from electric outlet immediately.
 - Failure to take this action could cause fire or an electrical shock.
 - Contact your point of purchase about repairing this product.
- Keep the cord and cables away from children. They may be injured or receive a shock.
- If the device has a ground wire, it must be used to prevent electrocution and power surges.
- Do not disassemble or modify this product. Contact your point of purchase about repairing this product.
- Do not disassemble or alter the AC adapter bundled with the product.

[Warning]

"Warning" indicates the existence of a hazard that could result in material damage if the safety instruction is not observed.

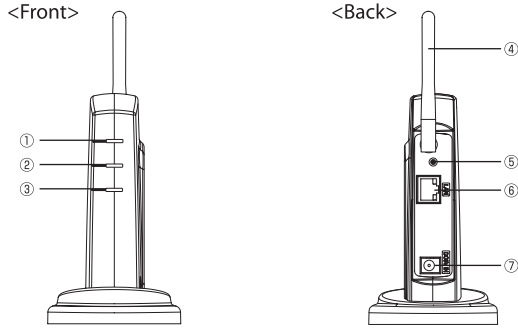
- When unplugging this product or a device, do not pull on the cord. The cord may break resulting in fire and/or electric shock. Pull only on the plug.
- When moving this product, disconnect the power and device cables. Fire or electric shock may occur.
- Always use the AC adapter bundled with this product. Other AC adapters may cause this product to malfunction.
- Verify all cables are properly and safely before using this product.
- When the product will not be used for an extended time, disconnect and unplug the power cable.
- Do not allow physical impact: When damaged, unplug this product and the device from power and contact your point of purchase. Failure to take this action could cause fire or an electrical shock.
- Do not use or store this product under the following conditions to avoid potential damage to this product.
 - [Prohibited]
 - Hard vibrations
 - Tilted or unstable places
 - Exposure to the direct rays of the sun
 - Humid or dusty places
 - Wet place (kitchen or bathroom)
 - Heated places (near stove or heater)
 - Wide temperature change
 - Strong electromagnetic field (near magnet, radio or wireless device)

Package contents

Following items are bundled with this product.

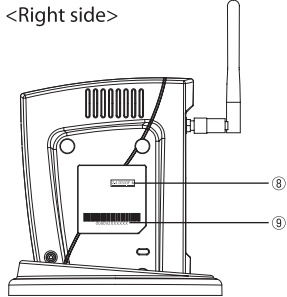
- ☐ Wireless Bridge
- ☐ Vertical stand
- ☐ Rubber feet (4 pcs)
(Stick these on the bottom to lay Wireless Bridge horizontally.)
- ☐ Power supply
- ☐ Network cable (Cross cable)
- ☐ Setup Guide (This document.)
- ☐ Warranty booklet

Parts and function



①	Wireless LED (Green)	Indicates the signal strength from the access point. On : Signal strength - High Blink : Signal strength - Low * Turns off when running in Configuration Mode (for wired). * Turns on when running in Configuration Mode (for wireless).
②	Status LED (Orange)	Blinks during data transfer. *Flashes slowly when running in Configuration Mode.
③	Link LED (Green)	ON : A network connection is established through a wireless LAN (Infrastructure mode). Blink : Searching for network connection. OFF : Running in wireless LAN (Ad hoc mode). *Flashes slowly when running in Configuration Mode.
④	Wireless LAN antenna	This antenna is used for communication through a wireless LAN.
⑤	Push switch	Start configuration mode (for wired): While this product is turned on, push this switch for 3 seconds and then release. Start configuration mode (for wireless): While this product is turned on, push this switch for 5 seconds and then release. Reset to factory default settings: Turn on this product while holding this switch and release it when the Status LED turns on.
⑥	Network port	Connects to the network cable.
⑦	Power connector	Connect AC adapter.

<Right side>



⑧	Wireless standard	2.4 GHz / 4 indicates the following information:	
		Frequency band	2.4GHz
		Transmission system	DS-SS / OFDM
		Interference distance	40m or less
		Availability of frequency change	It is possible to avoid interference by using different channels from the premises radio station, specified low-power radio station, and amateur radio station.
⑨	Ethernet address	The Ethernet (MAC) Address of this product is found on the bottom. The last 6 digits are the product's serial number. Example) If the Ethernet Address is 00:80:92:00:11:22 (noted as 008092001122) then the product's serial number is 001122.	

Before configuring this product...

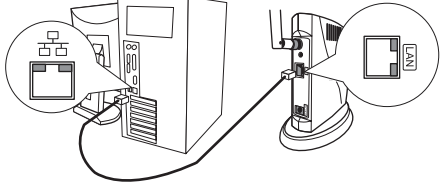
To use this product over the wireless LAN network, you need to configure wireless LAN information as appropriate for your network.

		Write down your network configuration	
Wireless mode	There is Ad hoc and Infrastructure mode. Select Infrastructure mode to communicate via access point.	Ad hoc (ch.) / Infrastructure	
SSID	This name is used to identify devices to be connected to a wireless LAN network. It is also known as ESSID.	_____	
Encryption method	No	Encryption method	WEP (Open / Shared) / WPA / WPA2
	WEP		
	WPA / WPA2		
		WEP key or Pre-Shared Key	_____

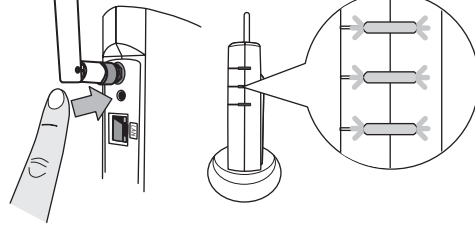
Step1 Start in "Configuration Mode "

Configure this product using a cable connection (Recommended)

1. Connect this product to the PC using the network cable (cross cable) that came with this product.
2. Connect the AC adapter to this product, and the AC adapter's plug to an electrical outlet.



3. If any of the 3 LEDs on this product start to blink, push and hold the push switch on the back side of this product for more than 3 seconds. Release the push switch when the 3 LEDs start to blink.



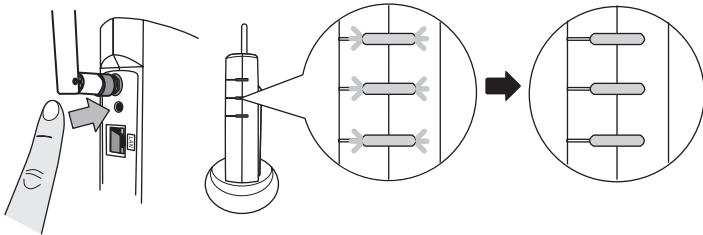
4. Verify that the Wireless LED turns off and the Status LED and Link LED flash slowly.

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

Configure this product via wireless LAN

* When configuring multiple devices via wireless LAN, please configure them one by one.

2. If any of the 3 LEDs on this product start to blink, push and hold the push switch on the back side of this product for more than 8 seconds. Release the push switch when the 3 LEDs start to blink and then turn on.



1. Connect the AC adapter to this product, and the AC adapter's plug to the electrical outlet.

3. Verify that the Wireless LED turns on and the Status LED and Link LED flash slowly.

4. Change the wireless settings of your PC to the following and then connect this product to the PC.

Wireless mode	Ad hoc mode
SSID	SETUP
Channel	11
WEP key	none

* For Windows XP (SP2 or later) ...

Click **Start - Connect To - Wireless Network Connection**. Click **View Wireless Networks**. Select **SETUP** and click **Connect**. (If a wireless LAN utility specially designed for your PC is already installed, or if you are using an OS other than Windows XP (SP2 or later), please configure the wireless LAN settings using the appropriate utility for your environment.)

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

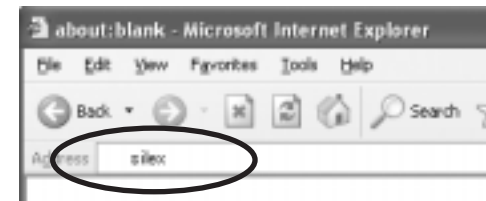
Step2 Register the configuration

1. Open a Web browser (Internet Explorer, Safari, Netscape, etc.) on the PC you used for the configuration.

2. A password entry screen will be displayed. Enter **root** for user name, and for password enter the password configured for this product. Click **OK** when completed. (As factory default, no password is set for this product. In this case, please leave the password blank, enter **root** for the user name, and click **OK**.)



* If the password entry screen is not displayed, enter "silex" into the address bar of the Web browser and press the Enter key.

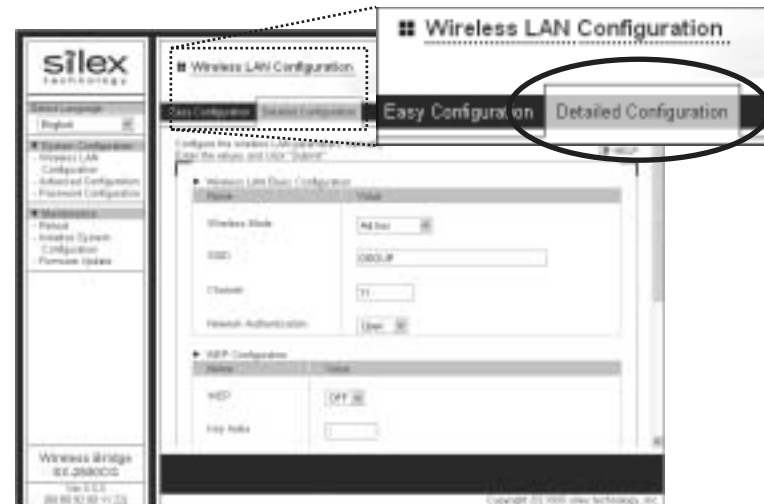


3. The configuration page is displayed.



Select the destination network device from the **Wireless Network List** and enter the WEP Key or Shared Key for the **Network Key**. Click **Submit** when finished.

* If the destination devices are not displayed in the **Wireless Network List**, click **Detailed Configuration** at the top of the page. In the page displayed, enter the wireless network information that you have acquired in advance and click **Submit**. Refer to the **HELP** for details on each setting.



4. Once a message appears indicating that the configuration has been completed, close the Web browser.



5. The configuration has now been completed. To use this product from the PC you have been using for the configuration, please restart the PC. To use this product with other network devices, turn off this product and the PC, and remove the product from the PC. Refer to Step3 to connect this product to a network device.

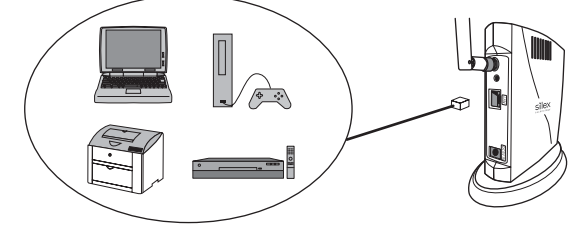
* If you have configured this product via wireless LAN, make sure to reset the wireless settings of your PC back to the original settings.

* In this configuration page, **Advanced Configuration**, **Password Configuration** (to access to the configuration page) and **Initialize System Configuration** are available by selecting the menu in the left pane. For details, refer to the HELP on each page.



Step3 Connect to a network device

1. Turn off the network device to be used with this product, and connect the network device and this product using a network cable. (Remember only one network device can be connected. Even if an Ethernet HUB is used, two or more network devices cannot be connected.)



2. Connect the AC adapter to this product and the AC adapter's plug to the electrical outlet. (At this time do not push the push switch on this product.)

3. Turn on the network device connected to this product. (Some network devices may require additional network settings. In such cases, refer to the manual that came with the network device.)

Tips on Troubleshooting

This section explains the troubleshooting procedures to resolve possible problems you may experience while installing this product.

Please also refer to the FAQ and the latest information about this product at the silex web site (<http://www.silex.jp/>).

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

A1: Please confirm this product is running in **Configuration Mode**. This product will accept accesses from a Web browser only when it is running in **Configuration Mode**. When this product is running in **Configuration Mode**, the Status LED and Link LED will flash slowly. To run this product in **Configuration Mode**, please refer to **Step1 Start in "Configuration Mode "**.

A2: Please check the IP address of the PC you are using for the configuration. If the IP address of the PC is static, add **1** to the last digit of the address and enter it into the address bar of the Web browser. (For example, if the IP address of your PC is "192.168.0.10", enter "192.168.0.11") Also, if you are using Mac OS X and Safari, it may be necessary to disable **Web Proxy (HTTP)** at Mac OS network settings, depending on the Safari version.

A3: While keeping this product turned on and running in **Configuration Mode**, restart the PC you used for the configuration, and access the Web page again.

Q: The network device this product is connected to cannot be used over the network.

A1: Please confirm this product is NOT running in **Configuration Mode**. When this product is running in **Configuration Mode**, the Status LED and Link LED will flash slowly. In such a case, please restart this product, making sure not to push the push switch.

A2: Check the front LED on this product. If the front LEDs are repeatedly flashing in the order of Wireless -> Status -> Link, this product is not communicating with the network device. Check the following points and restart the network device.
- Is the network device turned on?
- Is the wired LAN to which the network device is connected working?
- Are this product and the network device connected by a cross cable?
If the front LED status does not change even after checking the connection, access the Web page of this product and click **Advanced Configuration**. In the page displayed, enter the Ethernet address of the network device into **Network Device Address**.

A3: Verify that the network settings of the network device are properly configured. Remove this product from the network device and try to use the network device via the wired LAN without this product. If you still cannot communicate with the network device, the network setting of the network device may need to be changed.

A4: Please check the wireless LAN settings of this product. Try to access the network device connected to this product from other devices such as a PC. If the Status LED of this product does not blink, the wireless LAN settings of this product may not be correct. Please configure the wireless LAN settings of this product again.

A5: If all of the front LEDs flash rapidly at the same time, the network device may have been connected to another device while this product was running. In this case, reboot this product and then the network device.

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