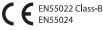
### **SX-2600CV Specifications**

| Operating environment   | Temperature: +0°C to +40°C, +32°F to +104°F<br>Humidity: 5% to 95%RH (Non-condensing)    |   |
|---|--|---|
| Storage environment   | Temperature : -20°C to +50°C , -4°F to +122°F<br>Humidity : 5% to 95%RH (Non-condensing) |   |
| EMI   | VCCI Class B / FCC Class B / EN55022 / EN55024   |   |
| CPU   | 32bit RISC CPU   |   |
| Memory  | RAM : 8MByte<br>FlashROM : 2MByte  |   |
| Wired network interface   | 0BASE-T/100BASE-TX 2 ports. (automatic detection)  |   |
| Push Switch   | 1  |   |
| LED   | Front side   | Power(Orange)   |
|   |  | LAN Link(Green) TARGET Link(Green)  |
|   | Wired connector area   | LAN Link(Green)   |
| Supported devices   | connector area   | LAN Link(Green) TARGET Link(Green)  10BASE/100BASE Link(Green)                |
| Supported devices  Maximum number of IPv6 devices this product can communicate with | connector area   | LAN Link(Green) TARGET Link(Green)  10BASE/100BASE Link(Green) Status(Orange) |

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 quarantee 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.

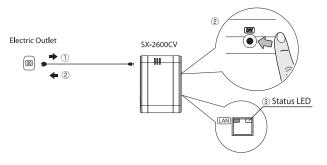
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



### **Reset to Factory Default**

This section explains how to reset the configuration of this product to factory default.

- **1.** Remove the AC plug from the electric outlet( ① ).
- 2. Push and hold the push switch while re-inserting the AC plug into the electric outlet (2) ). Continue holding down the push switch, and resetting to the factory default settings starts.
- 3. The Status LED (Orange) of LAN network port will light when resetting to factory default settings is complete( ③ ). Release the push switch.



### Notes on using this product

#### List of compatible protocols

silex assures that this product works without any problems for the following protocols. Other protocols may also be compatible if they are application layer protocols that use the same communication method for IPv4 and IPv6.

TCP: telnet(#23), http(#80), LPR(#515), IPP(#631), RAW mode print(#9100), SMTP(#25)\*, POP(#162)\*, SMB(#445)\*, FTP-Server(#21), FTP-Client(#21)\*

UDP: SNMP(#161), SNMP-Trap(#162)\*

- \* When using a protocol marked with "\*", the IPv6 address of the destination device needs to be registered in the Conversion Address List.
- List of incompatible protocols
- Protocols applicable to the following conditions cannot be used for IPv6 communication via this product.
- Application layer protocols that include an IP address in the communication data (e.g. SIP) \*Except for the compatible protocols above
- Protocols that have a different structure for the communication data and method for IPv4 and IPv6 (e.g. DHCP, DNS)
- Number of network devices allowed for IPv6 communication
- Up to 1,000 network devices can be linked to the target device via this product for IPv6

- Name resolution functions (address and host name conversion protocols) on the network such as DNS, WINS, Bonjour and NBNS cannot be used. (The communication specification for name resolution is different for IPv4 and IPv6.)
- Software that establishes a communication by combining multiple protocols may not work if one of the protocols is unsupported by this product.

#### **About trademarks**

- 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

### **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 last 6-digit number in the Ethernet Address of the LAN network port displayed on this product (12digits number) is the serial number of this product.

(Refer to "Parts and function" for how to find the Ethernet address on this 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)10-6440-3957 | support@silex.com.cn     |
| Japan;  | +81-(0)3-3455-5155  | support@silex.jp         |

## IPv6-IPv4 Converter SX-2600CV **Installation Guidance**

Thank you for purchasing IPv6-IPv4 Converter, SX-2600CV (below, "this product").

This product is a protocol converter that allows IPv4 network devices to be used on an IPv6 network. Once you connect an IPv4 network device to the network via this product, the device will be accessible from IPv6 network devices.

This document describes the basic information about this product and the preparation that needs to be completed before it is set up.







### **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
- 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.

- ☐ IPv6-IPv4 Converter
- Power supply
- Installation Guidance (this document.)
- Setup Guide
- ☐ Warranty booklet

### Parts and function

(1)

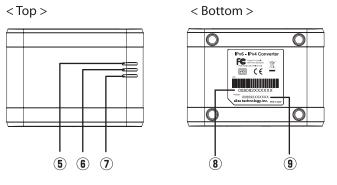
**(2**)

(3)

< Front > < Back >

(4)

| 1 | LAN network port    | Plug in a network cable that is connected to the LAN.  |  |
|---|---------------------|--|--|
| 2 | TARGET network port | Plug in a network cable that is connected to the target device.  |  |
| 3 | Push switch         | Push this switch when resetting this product to the factory defaults. (Refer to the backside for details.) |  |
| 4 | Power connector     | Connect AC adapter.  |  |



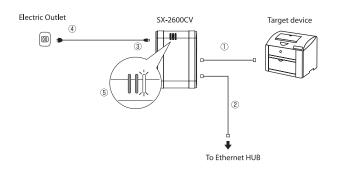
| (5) | TARGET Link LED (Green)                     | Turns on when the TARGET network port has established a link.  |
|-----|---|--|
| 6   | LAN Link LED (Green)                        | Turns on when the LAN network port has established a link.   |
| 7   | Power LED (Orange)                          | Turns on when this product is powered on.  |
| 8   | Ethernet Address of the LAN network port    | Ethernet Address (MAC Address) of the LAN network port on this product. The last 6 digits are the serial number of this product. Example) If the Ethernet Address is 00:80:92:00:11:22 (noted as 008092001122) then the serial number of this product is 001122. |
| 9   | Ethernet Address of the TARGET network port | Ethernet Address (MAC Address) of the TARGET network port on this product.   |
|     |   | <del>-</del>   |

### **How to Connect**

This section explains how to connect this product to the network and target device.

- **1.** Connect the TARGET network port on this product and the network port on the target device using a network cable ( 1).
- **2.** Connect the LAN network port on this product and the Ethernet HUB using a network
- $\bf 3.$  Connect the power supply to this product (  $\bf 3$  ) and the AC Plug into the electric Check that the Power LED (Orange) light is on (5).

\* Please use the AC adapter bundled with this product. Other AC adapters may cause unexpected damages



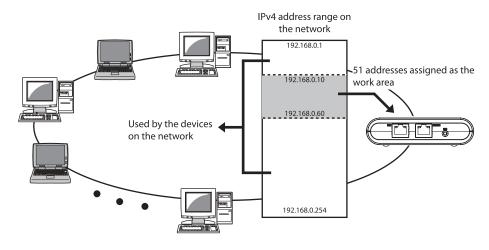
### Before using this product c (Check the network environment)

This product maintains a conversion list for IPv6 addresses and IPv4 addresses and automatically converts IPv6 addresses to IPv4 addresses to establish links with the target devices. To utilize this function, a certain address range within the IPv4 address area on the network needs to be exclusively reserved as a work area for this product.

Following are the conditions regarding the IPv4 address range to be registered to this product.

- The addresses should be available on the network to which this product will be connected.
- The addresses should not already be in use on the network to which this product will be connected.
- Enough addresses should be reserved for all IPv6 devices to be communicated with via this product. (One address is used for this product.)
- A contiguous address range should be reserved.

Example: When fifty IPv6 devices are connected to an IPv4 network that uses the address range from 192.168.0.1 to 192.168.0.254:

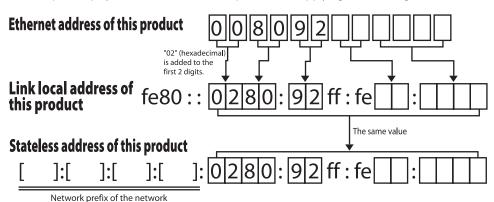


Before configuring the environmental settings of this product, check the IPv4 address range assigned to the network environment where this product is to be connected, and reserve the IPv4 address range to be registered to this product.

\* If the IPv4 address range to be registered to this product is not appropriate, the target devices and the IPv6 devices will not be able to communicate properly. Please be sure to perform the above check.

### How to check the IPv6 address of this product

The IPv6 address of this product can be confirmed by checking the Ethernet address of the LAN network port displayed on the bottom of this product and applying it to the diagram below.



\* The leading zeros in each part of an IPv6 address can be omitted. (Example) fe80::0280:92ff:fe01:0001 → fe80::280:92ff:fe01:1

### **Setup IPv6 environment for PC**

The environmental settings for this product can be configured over the IPv6 network by accessing the web page of this product with a Web browser.

The following is an example of how to configure this product using Internet Explorer 6 on Windows XP. Please refer to this example to configure the environmental settings on your PC.

(If you are using Windows Vista, please start from "6". If you are using a different OS or Web browser, the configuration method may vary. Please refer to the help for the OS or Web browser.)

### 1. Install IPv6

Start the Command Prompt. Enter "ipv6 install" and press the Enter key.

#### (Example)

```
c:\>ipv6 install 	┛
```

### 2. Edit the hosts file

Open the "hosts" file stored in <c:\Windows\system32\drivers\etc> (<c:\Windows> may vary depending on the installation environment) with Windows Notepad.

Add the IPv6 address and host name of this product to the bottom of the file.

### (Example)

(If a stateless address is assigned to this product, set the stateless address here. For the host name, any name that is not used by another network device may be set.)

When editing is completed, over write the hosts file and close Windows Notepad.

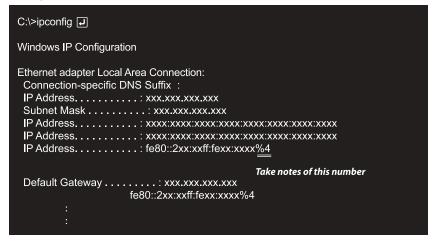
# **3.** Check the network interface number of the PC. (Only if the link local address is specified in the hosts file.)

Check the interface number of the network interface connected to this product.

At the Command Prompt, enter "**ipconfig**" and press the ENTER key.

From the information displayed, find the link local address of the network interface to be connected to this product, and check the number following "%", indicated **after the link local address**.

### (Example)



### **4.** Set the IPv6 route

(Only if the link local address is specified in the hosts file.)

At the Command Prompt, use the "**ipv6**" command to associate the destination of the link local address with the network interface you have checked at "3".

#### (Example)

```
c:\>ipv6 rtu fe80::/64 4 J
Specify the number you checked at "3"
```

### **5.** Communication check

At the Command Prompt, use the "**ping**" command to verify that a link has been properly established with this product.

### (Example)

```
Pinging sx2600cv [e80::280:92ff:fexx:xxxx] with 32 bytes of data:

(When there is reply)

Reply from fe80::280:92ff:fexx:xxxx: time=2ms

Reply from fe80::280:92ff:fexx:xxxx: time<1ms

Reply from fe80::280:92ff:fexx:xxxx: time<1ms

Reply from fe80::280:92ff:fexx:xxxx: time<1ms

(When there is no reply)

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Request timed out.
```

### **6.** Access the Web page of this product using a Web browser

Access the Web page of this product using a Web browser.

To perform the initial configuration of this product, please use Internet Explorer 6 or 7 on Windows XP. If a different OS or browser is used, the method to access the Web page via IPv6 may vary.

This product uses **TCP port #60000** to allow access to the Web page for configuration. To access the Web page, enter the host name (the one registered in the hosts file) followed by ":60000" into the address bar of the Web browser.

### (Example)

http://sx2600cv:60000/

To access the Web page of this product when using Windows Vista, enter the **IPv6 address enclosed in "[]"** and followed by "**:60000**" into the address bar of the Web browser.

### (Example)

http://[fe80::280:92ff:fe00:1122]:60000/

\* If your Web browser is configured to use a proxy server, add the IPv6 Address of this product to the exception list (Avoid communicating with this product via the proxy server.)

For information on how to configure this product, please refer to the Setup Guide.