2. PRICOM SX-3700WB

This product is a wireless USB device server that will serve USB type peripheral equipment (a printer, scanner etc.). By using the bundled PRICOM Monitor SX, it is possible to view the state of the connected printer via a network. In addition it is possible, by using the bundled PRICOM USB Utility, to share a scanner as a network scanner.

TIP
- Windows 2000, Windows XP, or Windows Server 2003 is required to use the network scanning function.
- Only one USB device can be connected at a time. The USB device must be connected directly to this product

NOTE
- Refer to our web page (http://www.silex.jp/) for the most up to date information.

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, 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 help.

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.

CE   EN55022 Class-B
EN55024

Environment

The following are needed for this product.

The followings are objects that connect to the network.
 - PC with wireless communication
 - USB Cable (A-B Type Connectors)
 - Printer, Scanner etc.

Supported OS

Windows 98/98SE/Me, Windows 2000, Windows XP, Windows Server 2003, UNIX/Linux, Macintosh (Mac OS 8.6 - Mac OSX Ver10.2 or newer)

Operating Environment
 - Temperature: +10 C +35 C
 - Humidity: 20% to 80%RH (no dewing)

Storage Environment
 - Temperature: -10C to 50C
 - Humidity: 20% to 90%RH (no dewing)

Electric current
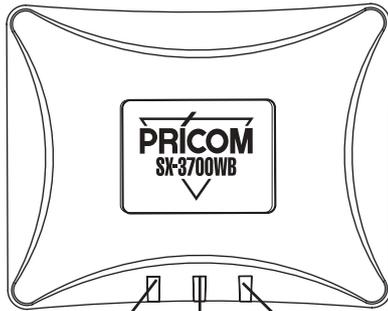
5V +- 5% 1.0A

EMI

VCCI Class-B
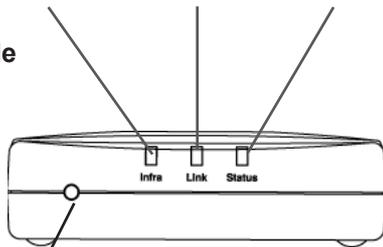FCC Class-B
EN55022 Class-B
EN55024
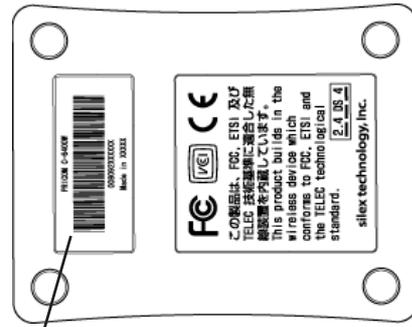
Equipment explanation

Part name and function

Top

Bottom

Infra LED (Green) Link LED (Green) Status LED (Orange)
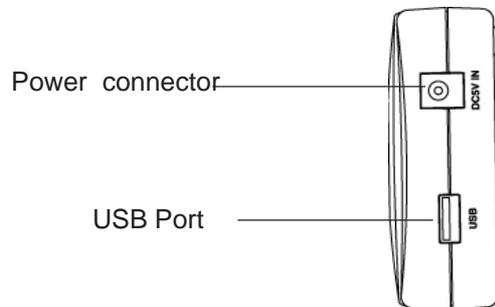
Status LED
(Orange)Ethernet Address
(The last 6 digits are the product serial number)

Front Side

Push Switch

Right Side

Power connector

USB Port

<Top/Front Side>

The LEDs have the following meaning:

Infra LED (Green)

Lights when an Infra. mode network connection is established.

Link LED (Green)

Lights when an OldAdHoc mode network connection is flashed.

Lights when an AdHoc mode network connection is established.

Lights when an Infra. mode network connection is established.

Status LED (Orange)

Flashes during data transfer.

<Bottom>

Ethernet Address

> The Ethernet (MAC) Address of the device is found on the bottom. The last 6 digits are the product's serial number.

NOTE
- If the Ethernet Address is 00:80:92:18:0E:1A (noted as 008092180E1A) then the product's serial number is 180E1A.

<Right Side>

USB Port

> Connect a USB Cable (A Type connector)

Power Connector
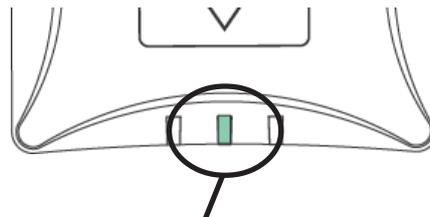
> Connect AC adapter

<Front Side>

Push Switch

> By pushing the push switch, the server can be restored to factory-default settings or do a self-diagnosis and print the configuration settings. It can also be used to put this product into infrastructure mode.

<**Restore Factory default**>

1. Please verify that AC adapter is not connected to this product.
2. While pushing the push switch, connect the AC adapter to the power supply connector of this product. Shortly after a power is supplied, all of the Light Emitting Diodes will light and then some will turn off.
3. Continuing pushing (about 5 seconds) — when the restoration starts all of the Light Emitting Diodes will light. When the status LED lights, release the push switch.
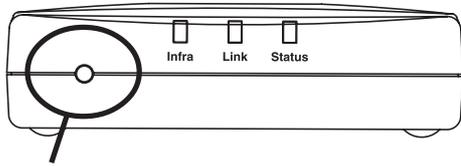
Infra   Link   Status
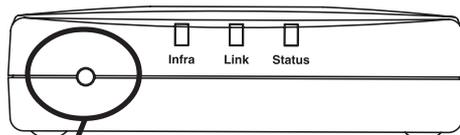
Push Switch

Link LED

TIP
- Do not turn off the power to this product while it is initializing to factory default.
- When this product is turned on again after factory default is completed, do not push the pushbutton switch.
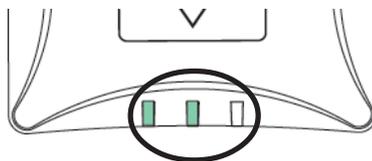
<**Put into infrastructure mode**>

1. Please verify that AC adapter is connected and that this product has started normally.

Push Switch
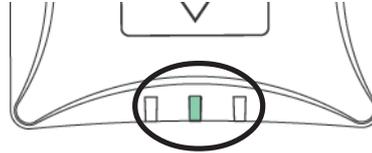
2. Push and hold the push switch down. Continue to hold down the push switch for about 5 seconds. The lights will blink and then the infrastructure LED will light. It is now in infrastructure mode.

TIP   - When using Infrastructure during the initial setup, disable WEP on the access point.
- If a mistake is made during the configuration, restore factory default and try again.

<**Self diagnostic/ Configuration Printing**>

1. Verify that AC adapter is connected to this product.
2. Verify that the printer is connected and ready to print.
3. Verify that the printer is power on.
4. While holding the push switch, plug in the power supply. Status LED (Orange), Link LED (Green), InfraLED (Green) is bringing.
5. Hold the push switch (for about 30 seconds). The self test and configuration will then begin.

TIP   - Do not turn off the printer until the printing of self-test/configuration settings has finished.
- The printer must have and internal font for the self-test/configuration settings to print.
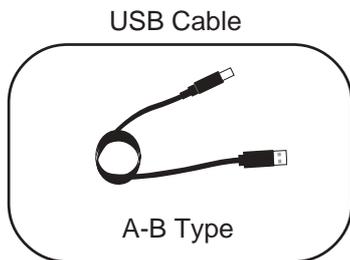
How to Connect

Connect this product to Printer and Network

TIP - If this product has been used in another network environment, restore to factory default.

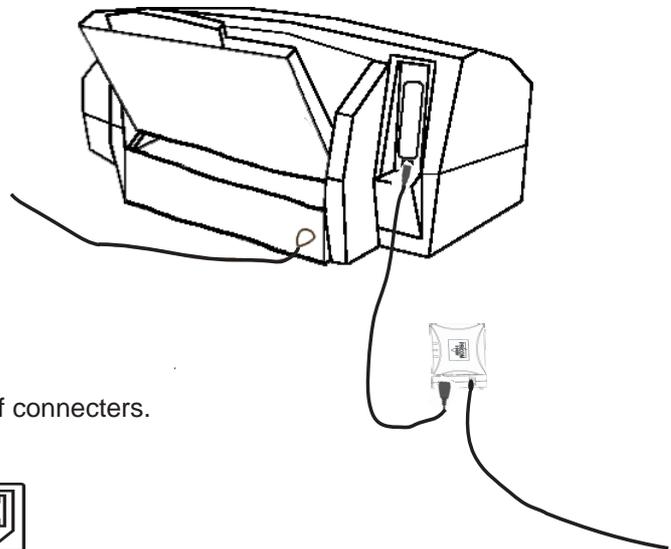This product needs the following to connect to a USB device.

USB Cable

A-B Type

The following example uses a printer as the connected device.

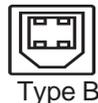1. Connect the AC Adapter to this product.

[Example]

2. Plug in the Power cable to the USB device.

3. Connect this product to a USB device. This product uses a type A connector and the USB device will use a type B connector.

NOTE
- The USB Cable will have two types of connecters.
- Make sure of the connector type.

Type A   Type B
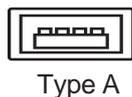
4. Make sure that printer is working and turned on.

TIP
- Using an AC adapter other than the one provided with this product can cause damage.
- Wait for 2 or more seconds after connecting/disconnecting the USB cable.
- Do not disconnect the USB cable during printing, scanning or reading/writing from a memory card.
- After turning on this product or connecting the USB cable, printing will proceed according to priority.

Other Functions

The following describes of the other functions of this product.

Function

Assign the IP address automatically using DHCP, BOOTP and RARP

- DHCP/BOOTP

If a DHCP/BOOTP server is working on your network, the DHCP/BOOTP protocol of this product will assign the IP address to this product.

TIP
- This product's DHCP protocol is compatible with RFC2131/2132.
- If you use the DHCP function of this product, talk to your administrator.

- RARP

If a RARP server is working on your network, the RARP protocol of this product will assign the IP address to this product.

TIP
- If you use the RARP function of this product, talk to your administrator.

- IPP

This product supports [Internet Printing Protocol] (IPP Ver.1.0) which can print via the internet. If you use IPP, you can easily print out to a remote place using Web access in HTTP.

TIP
- If you print out to a remote place using the IPP function, you should assign a global IP address to this product. Talk to an administrator for details.

- Web Brower functionality

This product supports HTTP. You can configure this product and check its status via a Web browser. If you have Internet access, you link to this product's support information.

TIP
- We recommend using Internet Explorer 4.0 or Netscape Navigator 4.0 or newer. The Web browser must support HTTP 1.0(RFC1945) and HTML 2.0(RFC1866).
- If you use the Web browser function, you should configure the IP address of this product and enable the TCP/IP protocol.
- An IP address must be assigned prior to using the Web browser.

- Scanner server

If you use a USB device, this product will allow you to share the scanner via the bundled PRICOM USB Utility.

TIP
- The PRICOM USB Utility is compatible with Wndows2000/WindowsXP
- This product can connect to one scanner.

- Storage server

This product supports the NetBEUI/NetBIOS protocol which will allow you to share the USB HDD storage device.

TIP
- This product does not support printing with the NetBEUI/NetBIOS protocol.
- This product can connect to one HDD storage.

- E-Mail

This product supports POP3 and SMTP protocols. The POP3 functionality allows the automatic retrieval and printing of e-mail from a POP3 server. By using SMTP this product will send an e-mail when a selected change of printer status occurs. This function allows the network manager to effortlessly monitor the status of the printers.

TIP
- The printer must have an internal font to print e-mail using the POP3 function.
- When using the POP3 function, if a "txt" file is attached to an e-mail, the e-mail will print and then the "txt" file will print. The server will print the e-mail and then the name of the attached file if the file is not a "txt" file
- The printer must send an error notice to the USB port in order to use SMTP.

Specification

Hardware Specification

CPU

    32bit RISC CPU

Memory

    RAM   :8MByte

    FlashROM   :1MByte

Network Interface

    IEEE802.11b compatible CF card

USB Interface

    Type A port

Other

    Push switch   :1

    LED   :Status(Orange), Link(Green), Infra(Green)

Software Specification

Supported Protocol:

TCP/IP, NetBEUI/NetBIOS, AppleTalk

TCP/IP:

Network Layer:	ARP, RARP, ICMP, IP, IPv6, ICMP6
Session Layer:	TCP, UDP
Application Layer:	LPD, TELNET, BOOTP, SNMP, HTTP, DHCP, IPP, #9100, DNS, NetBIOS, FTP, POP3, SMTP, SNTP

NOTE

- An IP address should be assigned by using the setup utility.

NetBEUI/NetBIOS:

SMB, NetBIOS

AppleTalk:

AppleTalk Phase2, ELAP, AARP, DDP, AEP, NBP, RTMP, ZIP, ATP, PAP

Using Wireless Communication

This product operates at 2.4GHz

No radio license is required to use this product. Take note of the following points.

Do not use next to the following.

- Microwave, scientific instruments, pacemaker or other medical equipment.
- Licensed radio station in a factory.
- Small power radio station (a non-licensed radio station)

The above equipment may use the same band. If you use this product near this equipment, the radio waves from this product and the following devices may interfere with each other.

You should not use this product near cellular phone, TV, Radio.

A cellular phone, TV, and radio use a different radio band than our product. Generally if they are used near our product, it will not cause a problem. However, when they approximate this product, sound or image noise can happen.

If there is reinforced concrete/metal between wireless devices, they may not connect.

This product can connect through wood or glass, but can have trouble communicating through reinforced concrete/metal.

Wireless Equipment for 2.4GHz band

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

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

2.4 DS   4

2.4 : The frequency of this device is 2.4Ghtz.

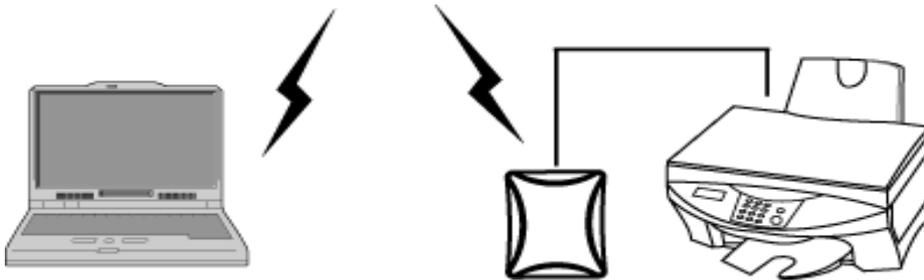DS : The modulation used is DS.

4   : The range of interference is (<=40m).

: Different channels can be used to avoid interference.

<AdHoc mode>

Each wireless product connects directory.
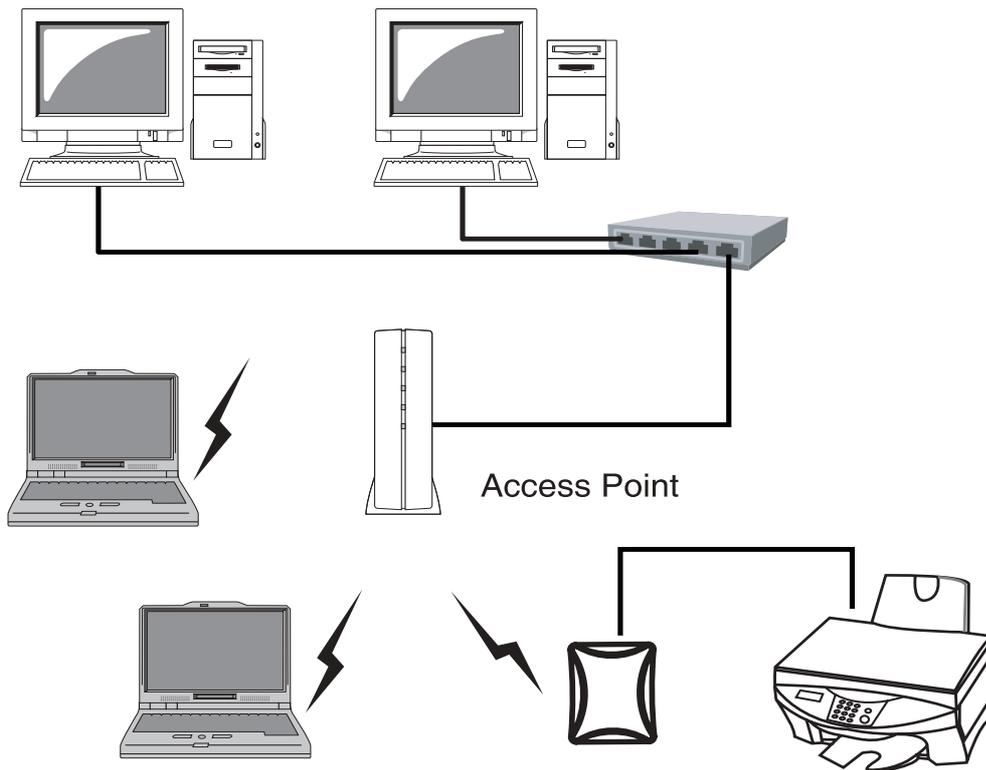
Connect this product to the USB device using a USB cable.

NOTE The PC connects directly to our product in AdHoc mode.

<Infrastructure mode>

    In Infrastructure mode this product connects through an access point. An Access point allows communication between wired and wireless environments.

Access Point

Connect this product to the USB device using a USB cable.

NOTE

- The following are the two ways to put this product into Infrastructure mode
1. Set the mode to be Infrastructure during the configuration.
2. After boot, hold down the push switch.