



User's Manual

Ethernet Interface

Rev. 5.00

SRP-270

SRP-275

SRP-280

SRP-350

SRP-350plus

SRP-370 / 372

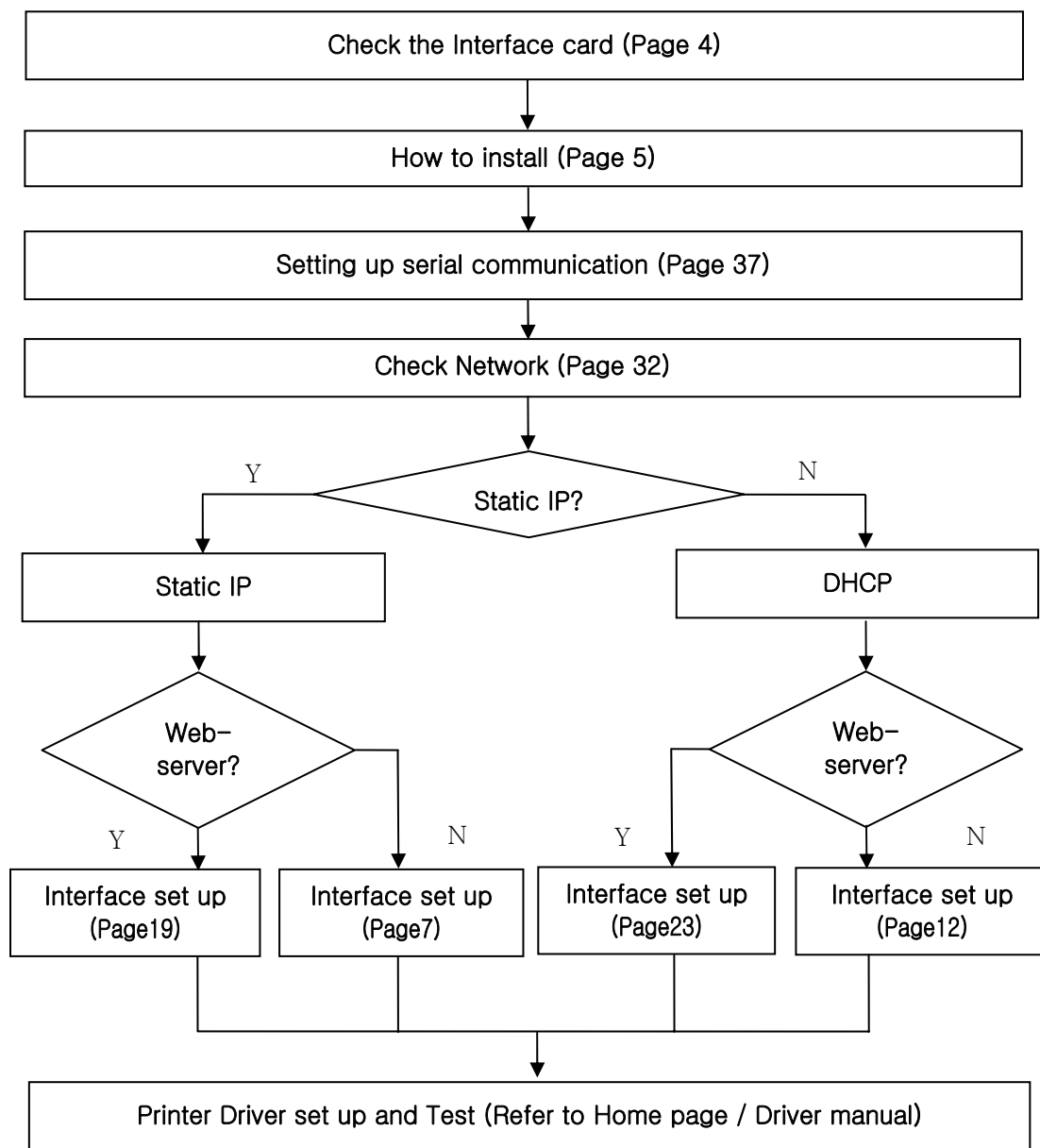
SRP-770 / 770II

SLP-T400

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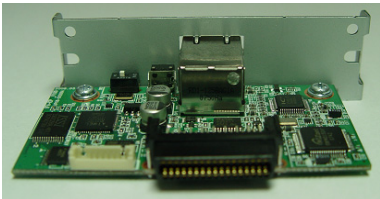

1. Interface setting Guiding



2. Manual Information

The purpose of this manual is to provide information on the operation and usage instructions of the Ethernet Interface for the BIXOLON Printers.

3. Interface card and available printer

Printer	Interface Card	Hardware version	Picture
SRP-270 SRP-280 SRP-350	IFA-E TYPE	V5.x.x	
SRP-350Plus SRP-370 SRP-372	IFA-E TYPE	V5.x.x	
SRP-275	IFC-E TYPE	V5.x.x	
SRP-350 SRP-350Plus	IFA-EP TYPE	V1.x.x	
SRP-770 SLP-T400	IFA-EO TYPE	V3.x.x	
SRP-770II	ON Board	-	Printer Integrated

4. How to install

1) Check the interface version

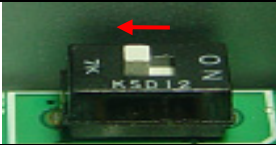

[Note]

- Each version uses its own Configuration Tool.

2) Turn of the printer and insert the interface card.

[Note]

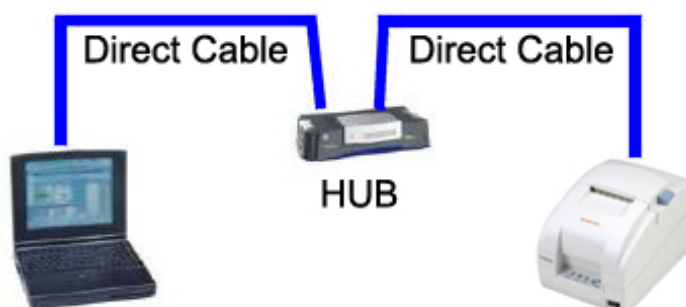
IFA-EP supports SRP-350 and SRP-350Plus. When a user installs IFA-EP on printer, user can select a model by using dip-switch of IFA-EP.

Interface Card	Printer	Picture
IFA-EP TYPE	SRP-350	
	SRP-350Plus	

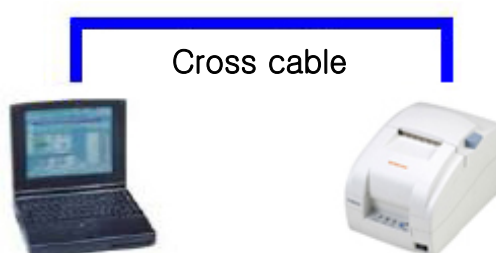
3) Set the baud rate (Serial speed)
(Refer to [Appendix 3])

4) Connect LAN cable to the interface card and turn on the printer.

(1) Use **direct cable** to connect to HUB (Switch).



(2) Use **cross cable** to connect to LAN card of computer.






[Note]

You can use IFA/C-E TYPE (after V5.0.0) or IFA-EP TYPE regardless of cable type.

5. Specifications

5-1. Hardware version

Hardware version is marked on the label on the interface card bracket.
IFA-E TYPE (V3.X.X) doesn't have Function key.

Interface Card	Picture
IFC-E TYPE	 A white plastic bracket for an Ethernet interface card. It has a label with the following text: BIXOLON, BIXOLON and partners, ETHERNET INTERFACE, MODEL: IFC-E TYPE, VER.: V5.0.0, MAC ADDRESS: 00:15:94:30:1A:20, BIXOLON Co., Ltd. MADE IN KOREA HPET.
IFA-E TYPE	 A white plastic bracket for an Ethernet interface card. It has a label with the following text: BIXOLON, BIXOLON and partners, ETHERNET INTERFACE, MODEL: IFA-E TYPE, VER.: V5.0.0, MAC ADDRESS: 00:15:94:10:19:37, BIXOLON Co., Ltd. MADE IN KOREA HPET.
IFA-EP TYPE	 A white plastic bracket for an Ethernet interface card. It has a label with the following text: BIXOLON, BIXOLON and partners, ETHERNET INTERFACE, MODEL: IFA-EP, VER.: V1.0.0, MAC ADDRESS: 00:15:94:50:00:0A, BIXOLON Co., Ltd. MADE IN KOREA HPET.

[Note]

- The DIP switch on the interface board should always be OFF.

5-2. Configuration Tool

BIXOLON provides 2 types of network and serial communication set up utilities as a below;

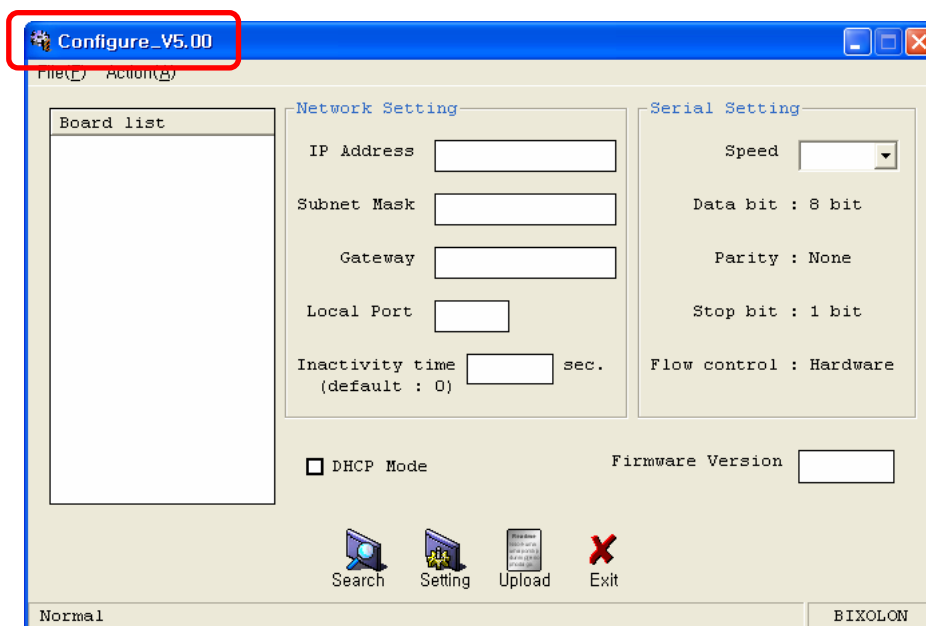
- Configure_Vx.x.x.exe
- Web Server

6. Configuration Tool

6-1. Static IP interface set up

1) Turn on the printer.

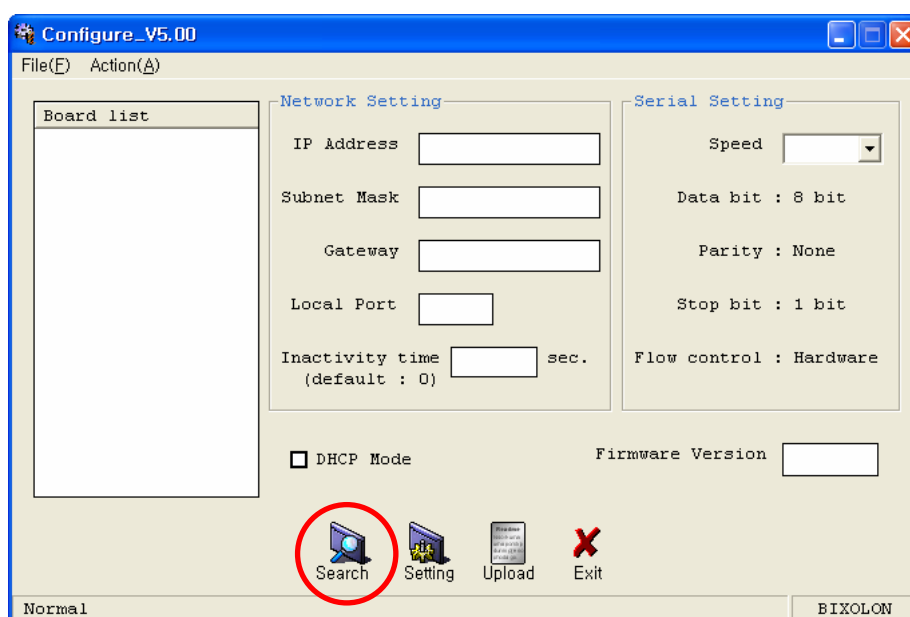
2) Execute **Configure Tool**.



[Note]

- Use proper Configuration Tool dependent on hardware version

3) Click **Search**.

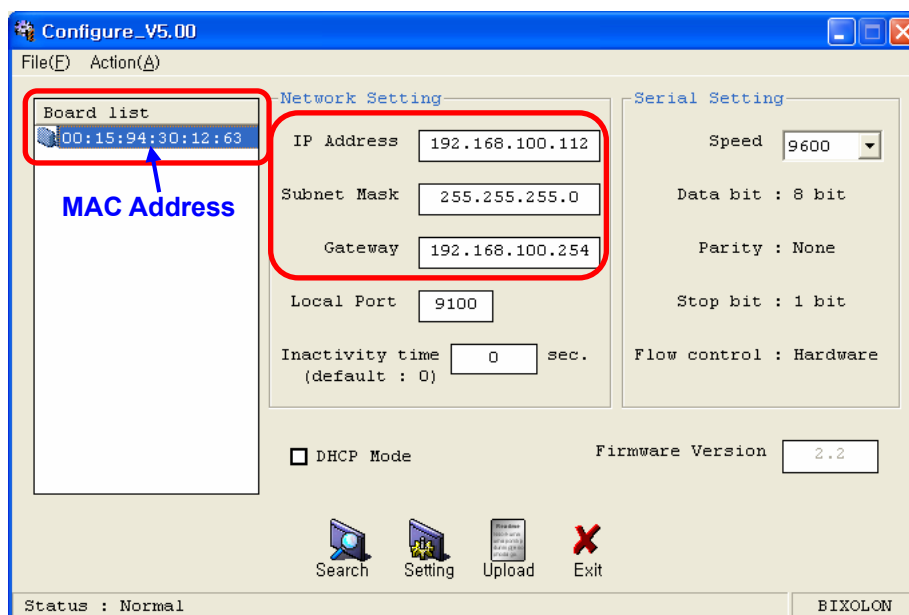


[Note]

- If Windows Security Alert pops up, please press Unblock.



- 4) Select MAC Address in **Board list** and **set up Network Setting**.



[Note]

- If many MAC addresses appear, refer to the MAC address on the label of the interface card. Ask the Network administrator IP and its related information.

- If you are not aware of Subnet Mask, refer to the below.

When the IP address is

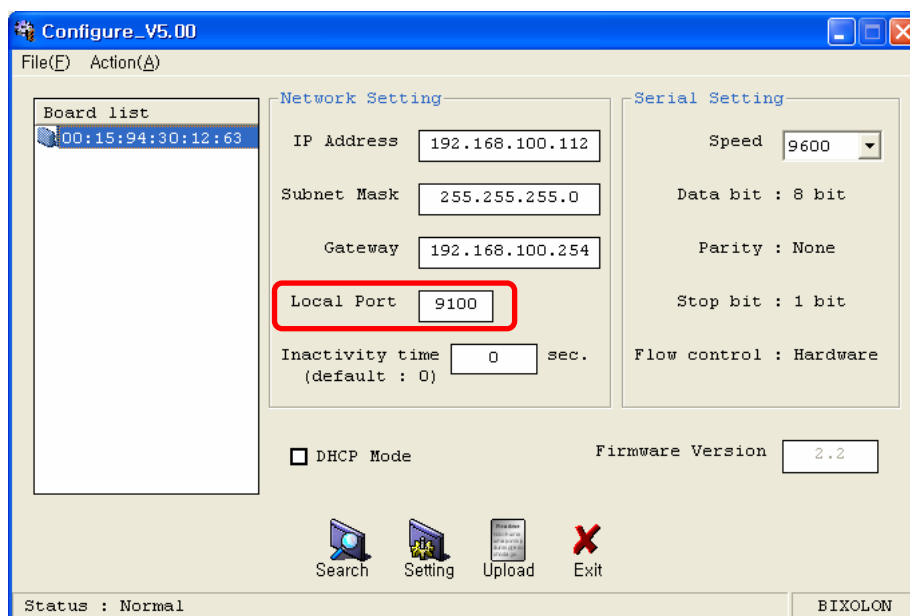
- (1) 1~126.xxx.xxx.xxx: Subnet Mask: 255.0.0.0
- (2) 128~191.xxx.xxx.xxx: Subnet Mask: 255.255.0.0
- (3) 192~223.xxx.xxx.xxx: Subnet Mask: 255.255.255.0

For example, when the IP address is 192.168.192.321,
Subnet mask is 255.255.255.0.

- If you are not aware of Gateway,

- (1) When the Network is connected to Internet (Router or Server computer),
refer to the Network setting of other computers on the Network.
- (2) When the Network is connected to Internet (Router or Server computer),
enter 0.0.0.0 for Gateway.

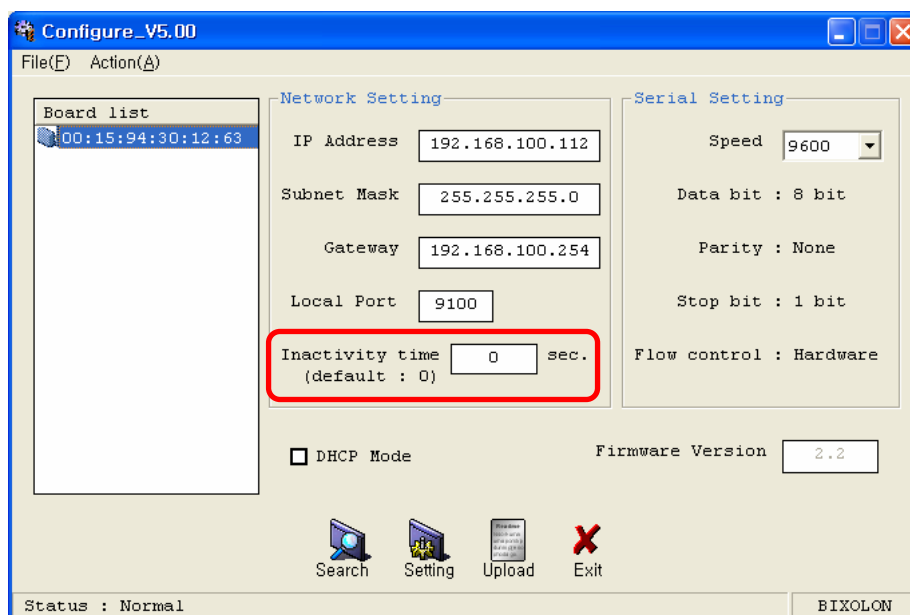
5) Enter value at **Local Port**.



[Note]

- Default value is **9100**. Choose from 0 to 32767.

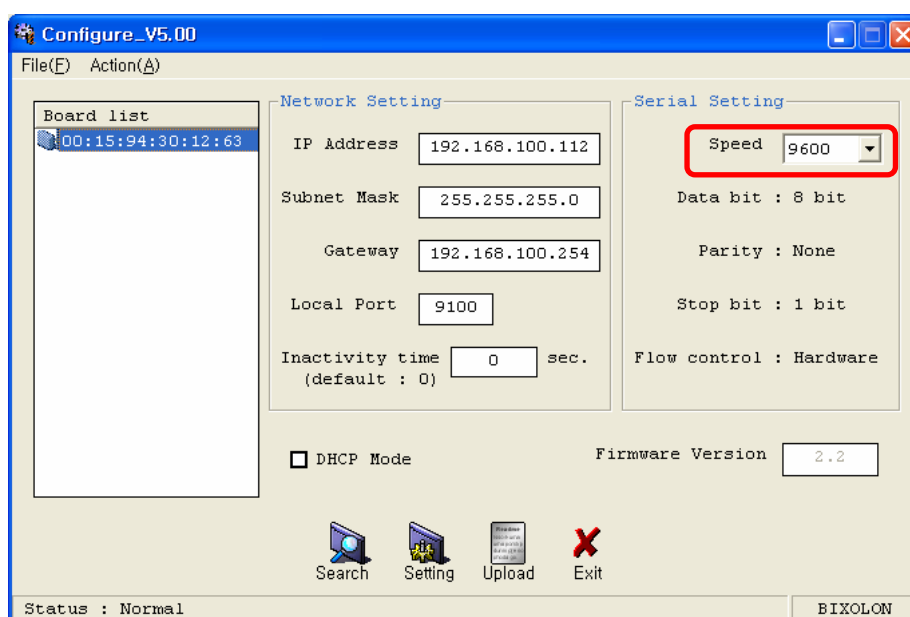
6) Set Inactivity Time as '0'.



[Note]

- Default value is 0. Choose from 0 to 32767.
- When you set Inactivity time, Ethernet interface will disconnect by force after designated time. When you set 0, Forced disconnection function is not available.

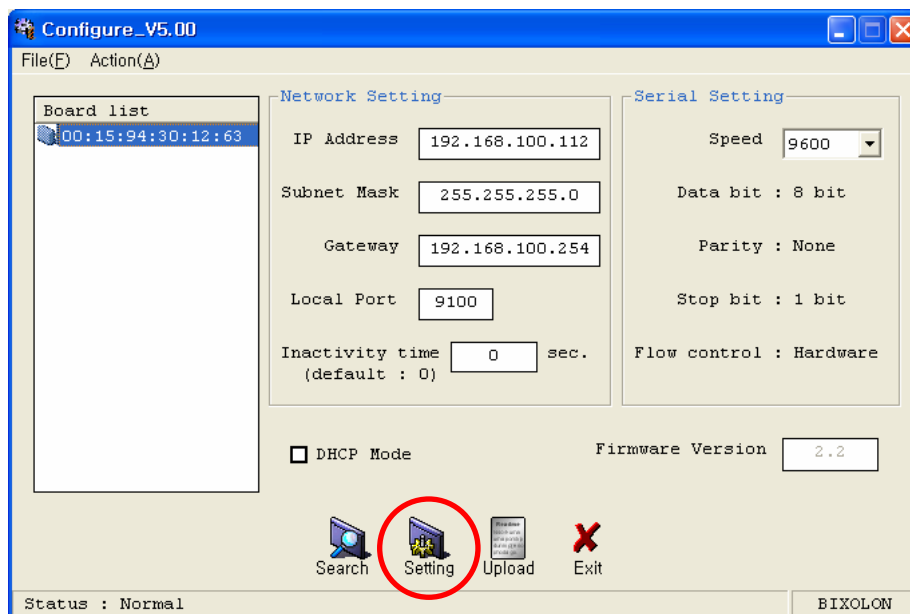
7) Set baud rate (Speed) at **Serial Setting**



[Note]

- The baud rate (Speed) should be same as the baud rate of the printer. (Refer to [Appendix 1])
- Highest baud rate (Speed) can be used.
- The baud rate (Speed) of IFA-EP don't need to setting.

8) When setting finishes, click **Setting**.

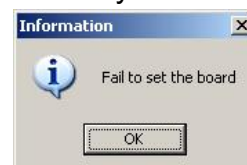


[Note]

Successfully finished set up

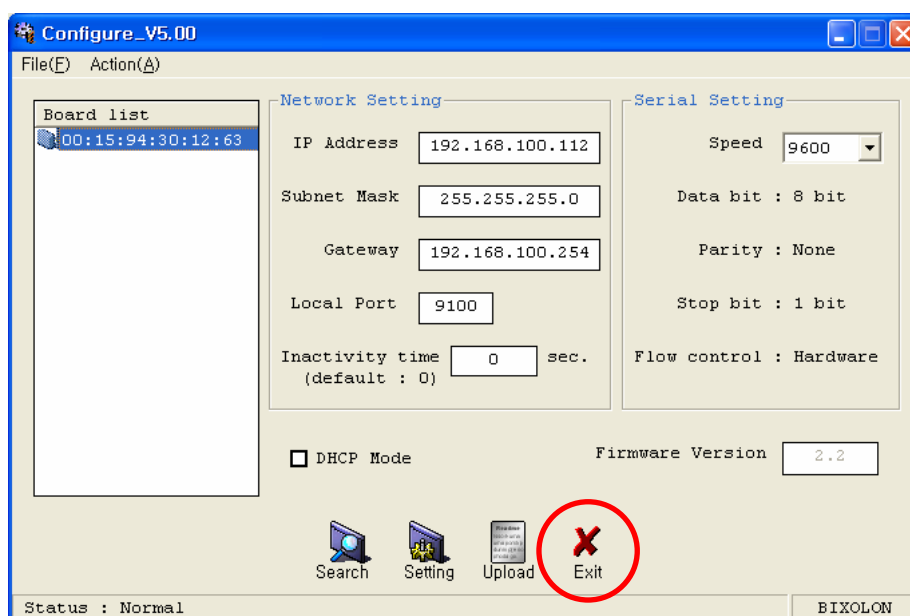


Unsuccessfully finished set up



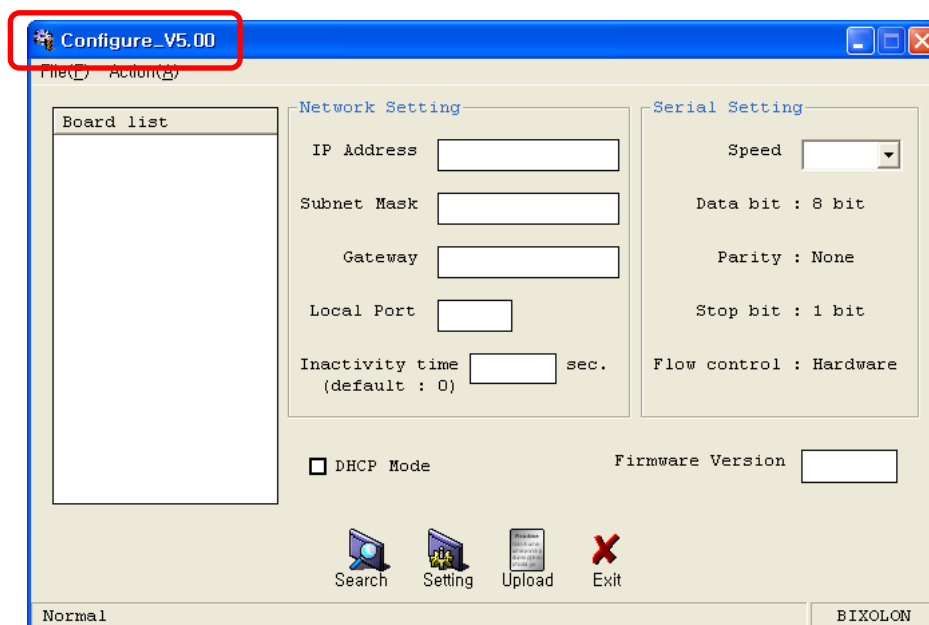
- When setting doesn't finish correctly, try again.

9) Click **Exit** to finish set up.



6-2. DHCP interface set up

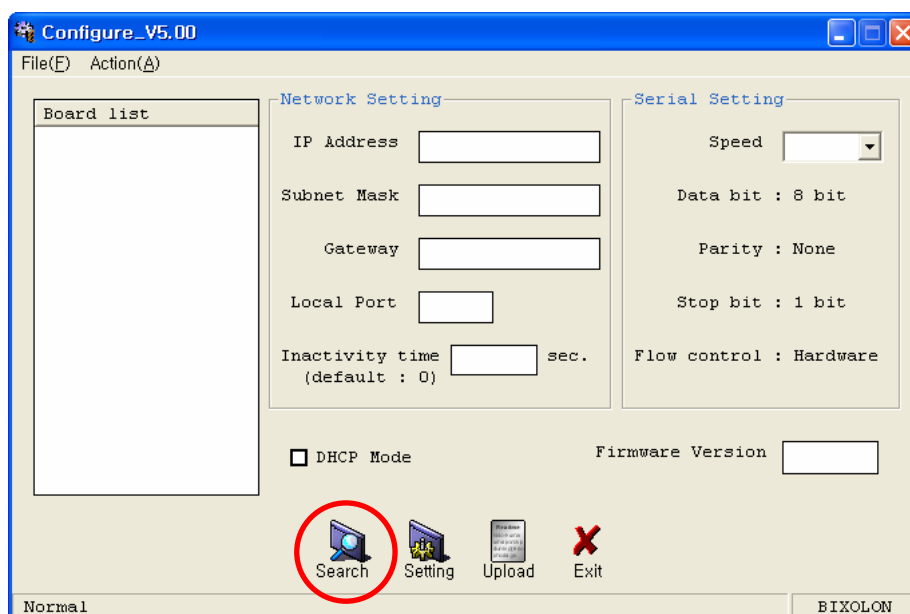
- 1) Turn on the printer.
- 2) Execute **Configure Tool**.



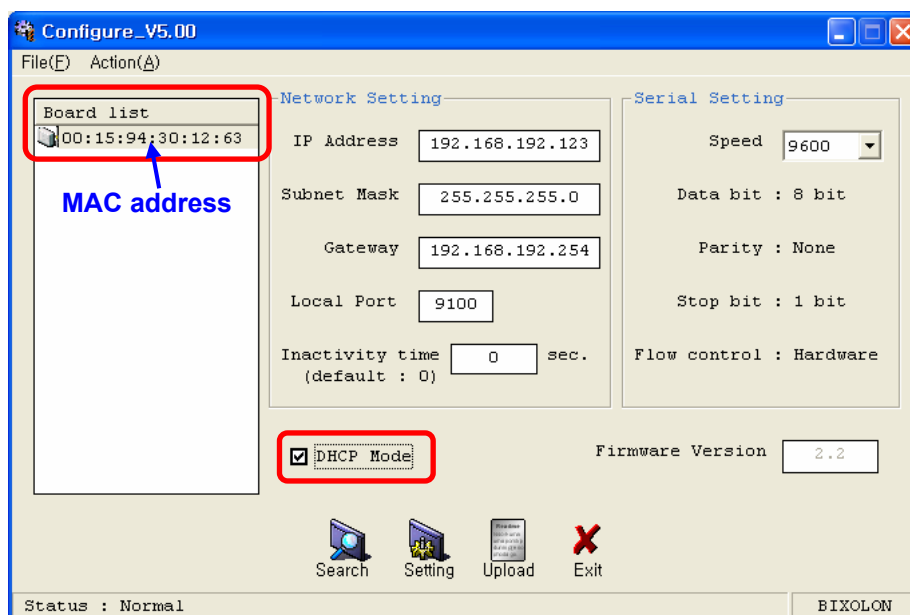
[Note]

- Use proper Configuration Tool dependent on hardware version

- 3) Click **Search**.



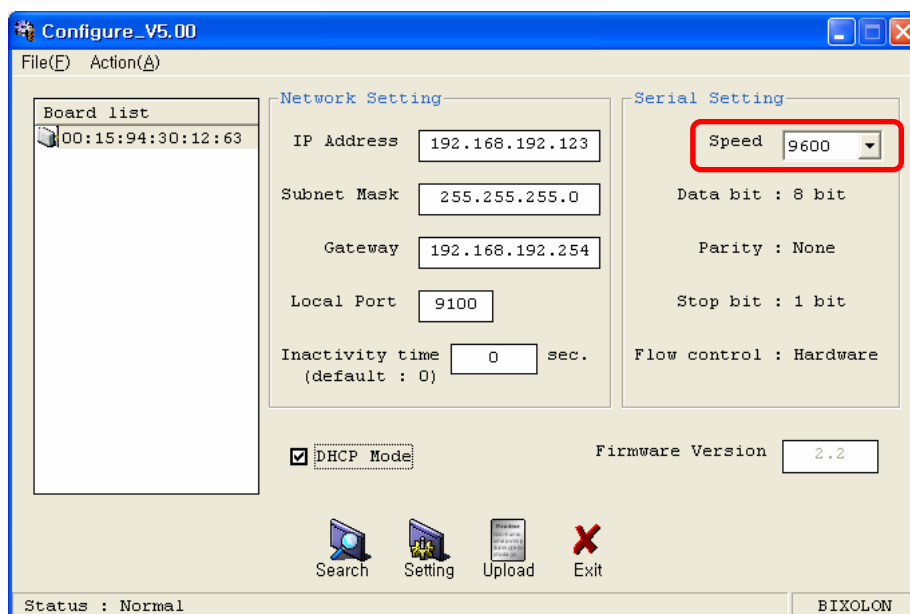
4) Select MAC Address in **Board list** and check at **DHCP Mode**.



[Note]

- If many MAC addresses appear, refer to the MAC address on the label of the interface card.
- Ask the Network administrator IP and its related information.

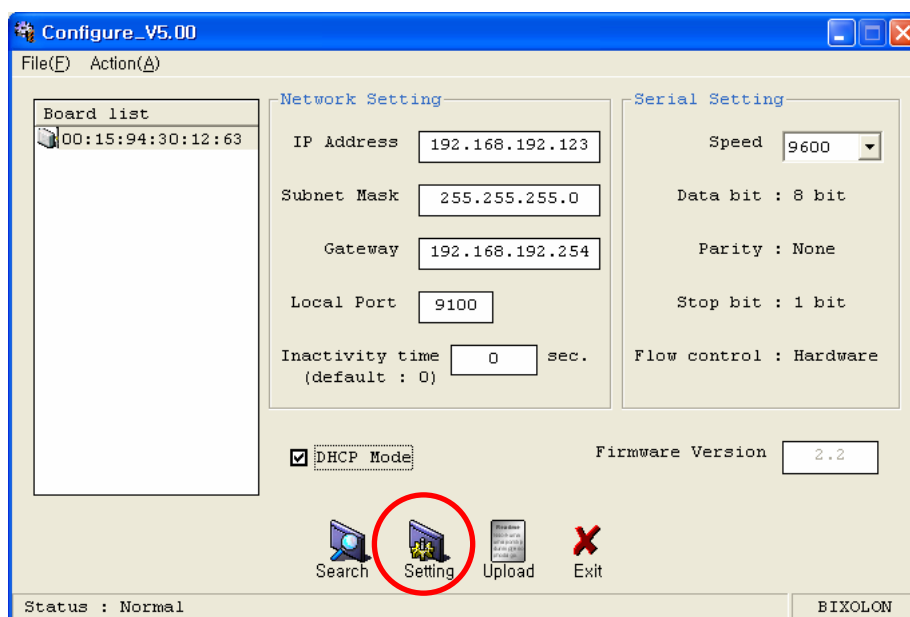
5) Set baud rate at “**Speed**.”



[Note]

- The baud rate (Speed) should be same as the baud rate of the printer. (Refer to [Appendix 3])
- Highest baud rate (Speed) can be used.
- The baud rate (Speed) of IFA-EP TYPE don't need to setting.

6) When setting finishes, click **Setting**.

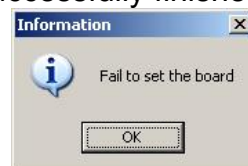


[Note]

Successfully finished set up



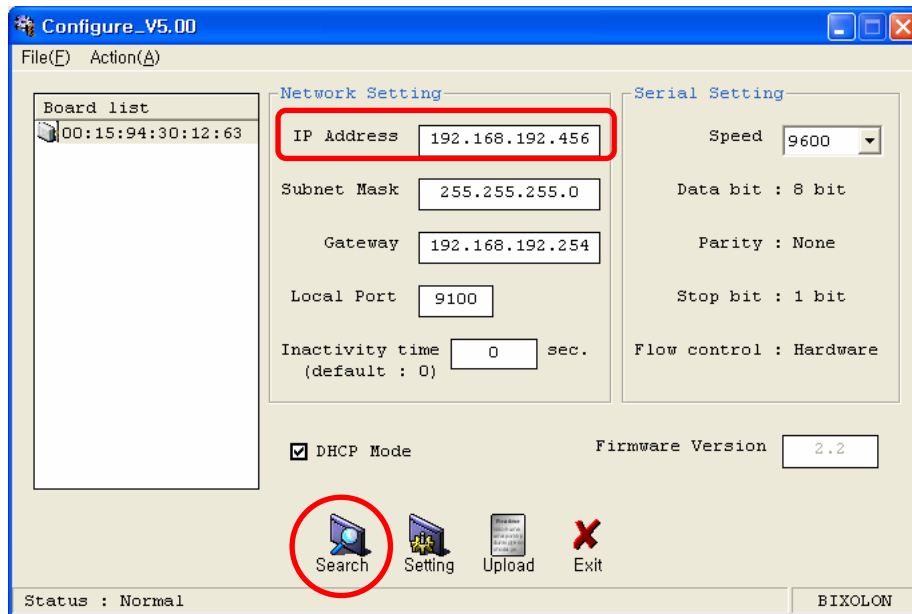
Unsuccessfully finished set up



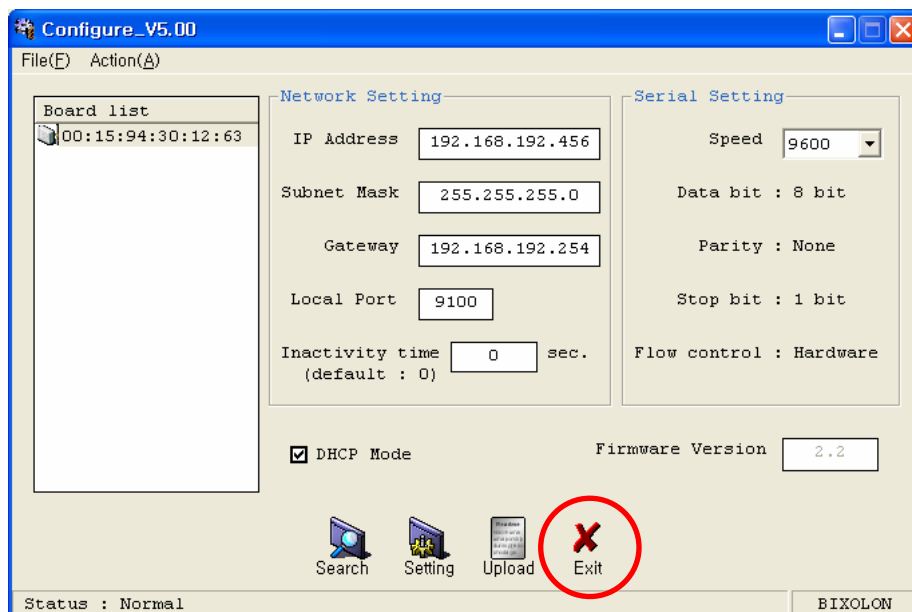
- When setting doesn't finish correctly, try again.

7) Wait approximately 10 or more seconds until the printer receives IP from the server.

8) Click **Search** to check given IP.

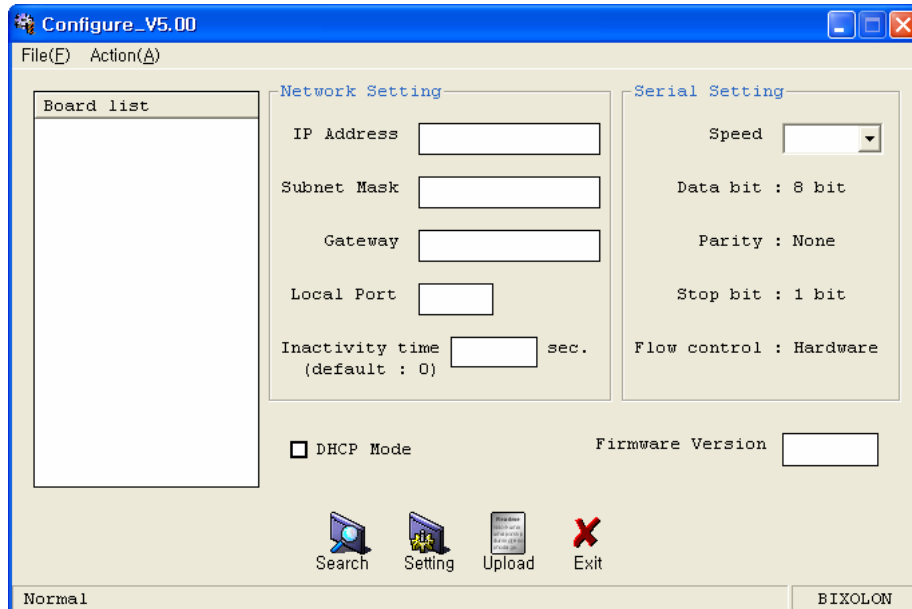


9) If the given IP is OK, click **Exit**.



6-3. Firmware update

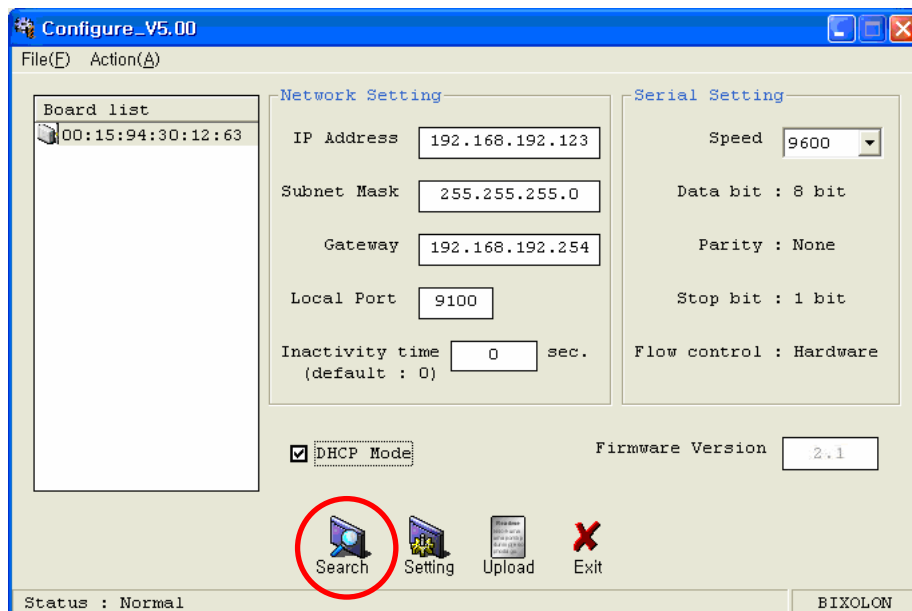
- 1) Turn on the printer
- 2) Execute **Configure Tool**.



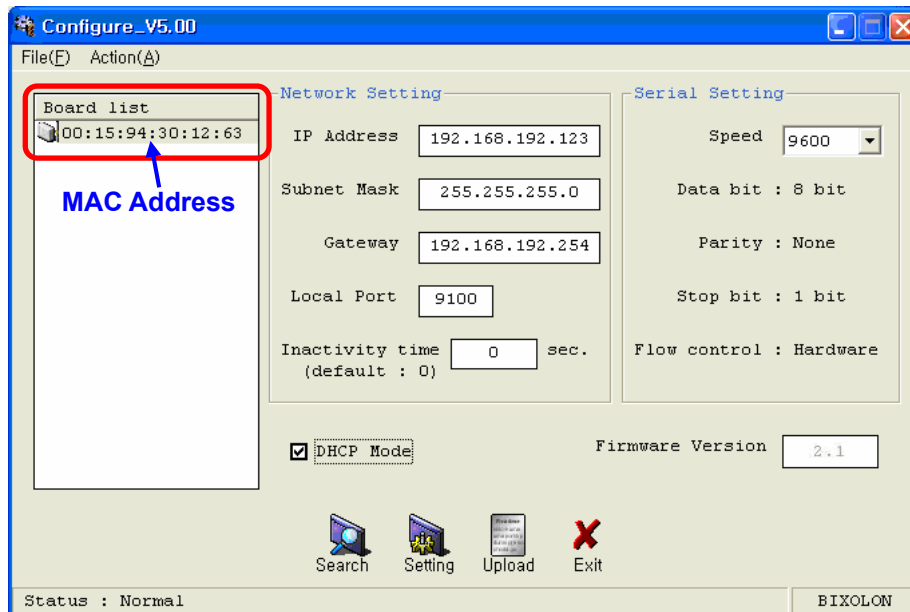
[Note]

- Use proper Configuration Tool dependent on hardware version

- 3) Click **Search**.



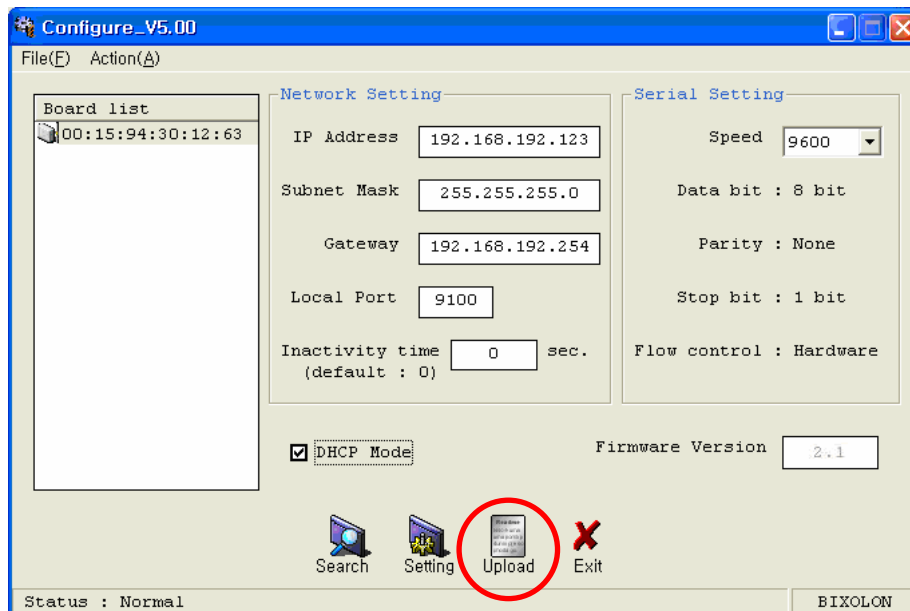
4) Select **MAC Address** in **Board**.



[Note]

- If many MAC addresses appear, refer to the MAC address on the label of the interface card.

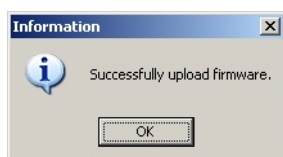
5) Click **Upload** and select file to download.



[Note]

- Check the extension of the file, which should be “bin”.

Successfully finished F/W update



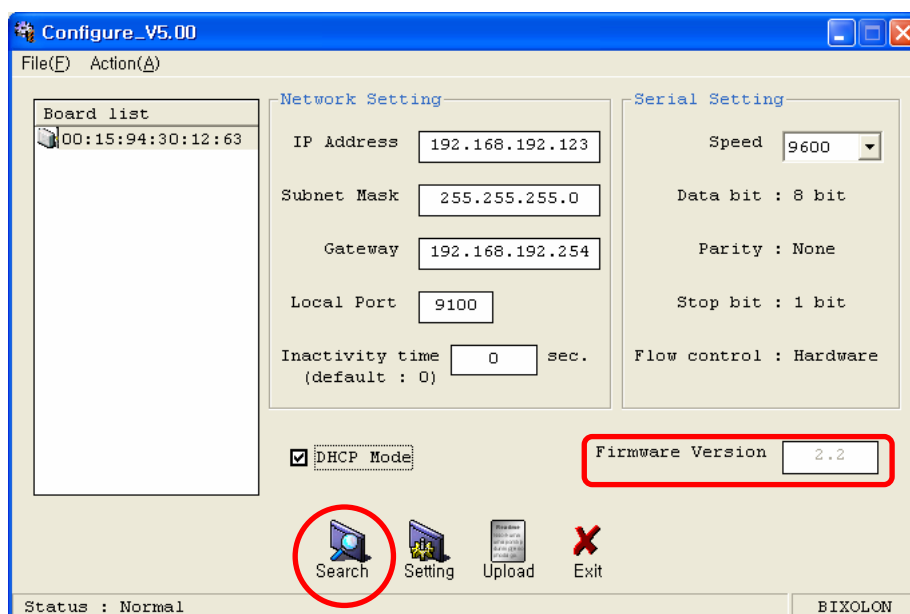
Unsuccessfully finished F/W update



- Printer and available firmware

Interface Card	Hardware Version	Firmware
IFA-E TYPE	V3.x.x	ETS_TCP_V1X.bin
IFC-E TYPE		
IFA-EO TYPE		
IFA-E TYPE	V5.x.x	ETS_TCP_V2X.bin
IFC-E TYPE		
SRP-770II (ON Board)	ON Board	ETS_TCP_V5X.bin
IFA-EP TYPE	V1.x.x	ETP_TCP_V1X.bin

- When firmware update finishes, click **Search** to check if Firmware is updated successfully.



[Note]

- Don't turn off the printer while the firmware is updated. It causes fatal harm to interface card

7. Web Server

7-1. Static IP interface set up

- 1) Execute Internet Explorer.
- 2) Enter IP address of the printer at **Address** of Internet Explorer and click **go**.



Configuration

F/W ver.	2.2
MAC	00:15:94:30:00:0B
Source IP	<input type="text" value="192.168.192.123"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway IP	<input type="text" value="192.168.192.254"/>
Local Port	<input type="text" value="9100"/>
Inactivity Time	<input type="text" value="0"/>
Serial speed	<input type="text" value="9600"/>
DHCP mode	<input type="checkbox"/>

[Firmware update](#)

[Note]

- If you are not aware of IP address, check IP address by pushing Function key. (Refer to 35Page)]
- Ask Network administrator IP Address and its related information.

- 3) When **Configuration** Window appears, enter new **Network Setting**.

Configuration

F/W ver.	2.2
MAC	00:15:94:30:00:0B
Source IP	<input type="text" value="192.168.192.123"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway IP	<input type="text" value="192.168.192.254"/>
Local Port	<input type="text" value="9100"/>
Inactivity Time	<input type="text" value="0"/>
Serial speed	<input type="text" value="9600"/>
DHCP mode	<input type="checkbox"/>

[Firmware update](#)

[Note]

- If you are not aware of Subnet Mask, refer to the below.
- When the IP address is
 - (1) 1~126.xxx.xxx.xxx: Subnet Mask: 255.0.0.0
 - (2) 128~191.xxx.xxx.xxx: Subnet Mask: 255.255.0.0
 - (3) 192~223.xxx.xxx.xxx: Subnet Mask: 255.255.255.0For example, when the IP address is 192.168.192.321, Subnet mask is 255.255.255.0.
- If you are not aware of Gateway,
 - (1) When the Network is connected to Internet (Router or Server computer), refer to the Network setting of other computers on the Network.
 - (2) When the Network is connected to Internet (Router or Server computer), enter 0.0.0.0 for Gateway.

4) Enter value of **Local Port**.

The screenshot shows the 'Configuration' page of a device. The 'Local Port' field is highlighted with a red box and contains the value '9100'. Other fields include F/W ver. (2.2), MAC (00:15:94:30:00:08), Source IP (192.168.192.123), Subnet Mask (255.255.255.0), Gateway IP (192.168.192.254), Inactivity Time (0), Serial speed (9600), and DHCP mode (unchecked). An 'Apply' button is at the bottom, and a 'Firmware update' link is at the bottom right.

F/W ver.	2.2
MAC	00:15:94:30:00:08
Source IP	192.168.192.123
Subnet Mask	255.255.255.0
Gateway IP	192.168.192.254
Local Port	9100
Inactivity Time	0
Serial speed	9600
DHCP mode	<input type="checkbox"/>

Apply

[Firmware update](#)

5) Set **Inactivity Time**.

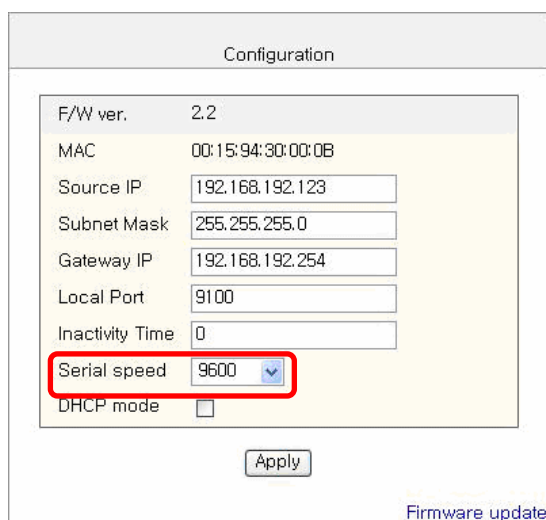
The screenshot shows the 'Configuration' page of a device. The 'Inactivity Time' field is highlighted with a red box and contains the value '0'. Other fields include F/W ver. (2.2), MAC (00:15:94:30:00:08), Source IP (192.168.192.123), Subnet Mask (255.255.255.0), Gateway IP (192.168.192.254), Local Port (9100), Serial speed (9600), and DHCP mode (unchecked). An 'Apply' button is at the bottom, and a 'Firmware update' link is at the bottom right.

F/W ver.	2.2
MAC	00:15:94:30:00:08
Source IP	192.168.192.123
Subnet Mask	255.255.255.0
Gateway IP	192.168.192.254
Local Port	9100
Inactivity Time	0
Serial speed	9600
DHCP mode	<input type="checkbox"/>

Apply

[Firmware update](#)

6) Set baud rate (**Serial speed**).

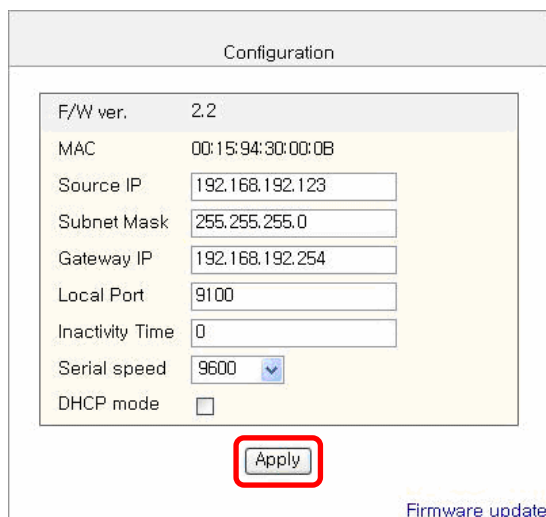


The screenshot shows a web-based configuration interface titled "Configuration". It contains a form with the following fields: F/W ver. (2.2), MAC (00:15:94:30:00:08), Source IP (192.168.192.123), Subnet Mask (255.255.255.0), Gateway IP (192.168.192.254), Local Port (9100), Inactivity Time (0), Serial speed (9600), and DHCP mode (unchecked). The "Serial speed" dropdown menu is highlighted with a red rectangular box. Below the form is an "Apply" button, and at the bottom right is a link labeled "Firmware update".

[Note]

- The baud rate (Speed) should be same as the baud rate of the printer.
- The baud rate (Speed) of IFA-EP don't need to setting.

7) When setting finishes, click **Apply**.



This screenshot is identical to the previous one, showing the "Configuration" page. However, the "Apply" button at the bottom center of the form is highlighted with a red rectangular box. The "Serial speed" dropdown menu is still set to 9600.

[Note]

- When the setting finishes successfully, the following message appears.

Please press here if you would like to back to the configuration

8) If you click the message, you can check your configuration setting.

[Note]

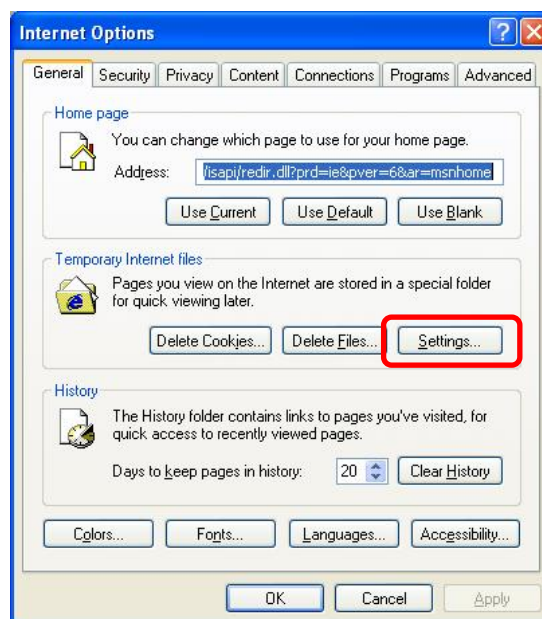
- If any change was not found after setting on Web Server, check the bellows;

(1) Execute Internet Explorer.

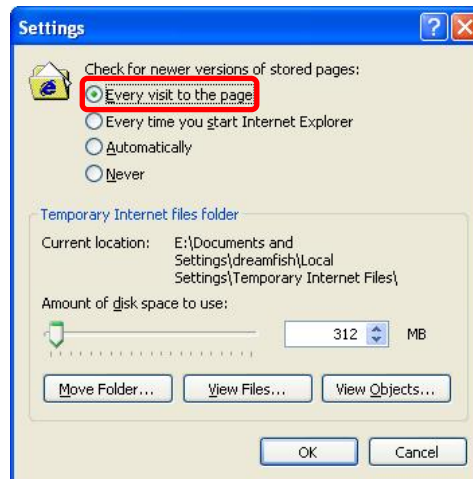
(2) Internet Explorer **Menu** → **Tools** → **Internet options**.



(3) **General tab** → **Temporary internet file** → **Settings**



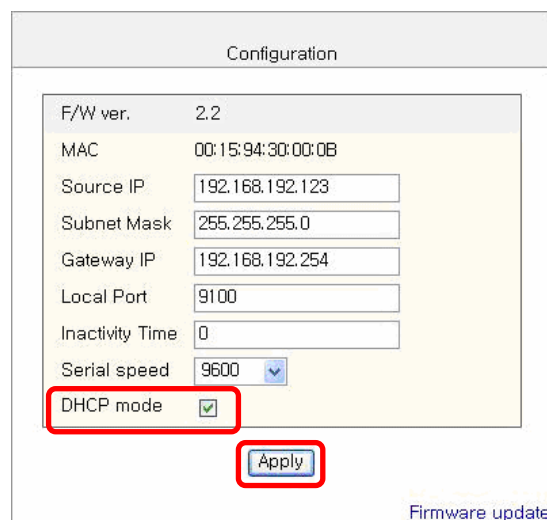
(4) Check for newer version of stored pages → Click **Every visit to the page**.



(5) Click **Refresh** in Internet Explorer.

7-2. DHCP interface set up

1) Check at **DHCP mode** and click **Apply**.



2) Push the Function Key on the interface 10 or more seconds from finishing set up.
Enter given IP address at address of Internet Explorer to enter web server.

7-3. Firmware update

1) Click **Firmware update**.

The screenshot shows a web interface titled "Configuration". Inside, there is a yellow-shaded box containing the following settings:

- F/W ver. 2.2
- MAC 00:15:94:30:00:0B
- Source IP 192.168.192.123
- Subnet Mask 255.255.255.0
- Gateway IP 192.168.192.254
- Local Port 9100
- Inactivity Time 0
- Serial speed 9600 (dropdown menu)
- DHCP mode ☒

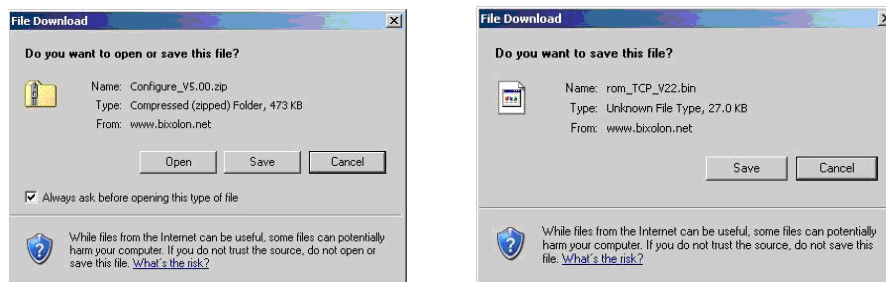
Below the settings box is an "Apply" button. At the bottom right of the configuration area, there is a "Firmware update" button, which is highlighted with a red rectangle in the image.

2) Internet Explorer is executed and it moves to download site automatically.

[Note] Printer and available firmware

Interface Card	Hardware Version	Firmware
IFA-E TYPE	V3.x.x	ETS_TCP_V1X.bin
IFC-E TYPE		
IFA-EO TYPE		
IFA-E TYPE	V5.x.x	ETS_TCP_V2X.bin
IFC-E TYPE		
SRP-770II (ON Board)	ON Board	ETS_TCP_V5X.bin
IFA-EP TYPE	V1.x.x	ETP_TCP_V1X.bin

3) Download **Configure_Vx.xx.zip** file and ***.bin** file.



[Note]

- You can download it by double-clicking icons or copy and paste.

4) Unzip **Configure_Vx.xx.zip** and execute **Configure_Vx.xx.exe** at **Configure_Vx.xx** folder.

	COMDLG32.OCX	ActiveX Control	61 KB	No	138 KB	56%	5/22/2000 12:00 AM
	Configure_setup.bat	MS-DOS Batc...	1 KB	No	1 KB	60%	6/15/2006 2:07 PM
	Configure_V5.00.exe	Application	25 KB	No	80 KB	70%	6/16/2006 9:33 AM
	MSCOMCT2.OCX	ActiveX Control	332 KB	No	633 KB	48%	5/17/2004 6:19 PM
	MSWIN5CK.OCX	ActiveX Control	54 KB	No	107 KB	50%	12/6/2000 12:00 AM
	progress.avi	Video Clip	3 KB	No	135 KB	99%	1/27/2002 5:34 AM

[Note]

- In case **Configure_Vx.xx.exe** can't be executed, run **configure_setup.bat** first and retry it.

5) Click **Upload** at Configuration Tool and ***.bin** to update Ethernet firmware.

8. Ethernet test by using Windows test page

If you don't have any test program to check printer's performance, you can use Windows driver. It is available for Windows 2000, XP, 2003 server (32bit), Vista (32bit).

- 1) Install Windows driver of the printer. When the driver installation finishes, reboot the computer.

[Note]

- Latest file versions can find drivers at <http://www.bixelon.com>

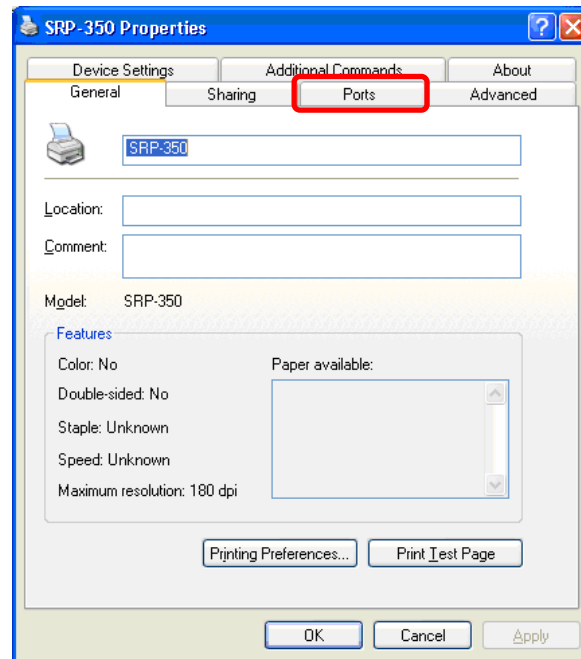
- 2) **Start > Control panel > Printers and Faxes**



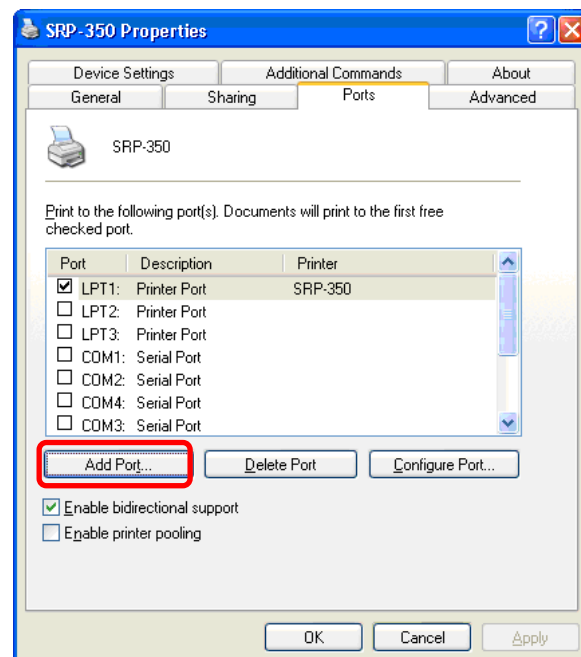
- 3) Select the printer icon and click it with the right button to select **properties**.



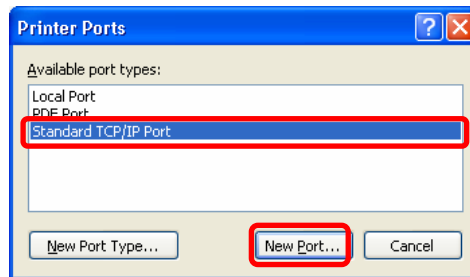
4) Select **Ports** tab.



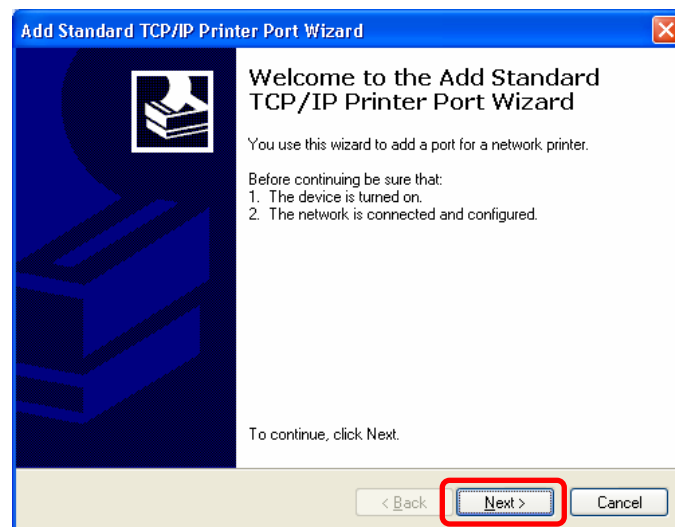
5) Click **Add Port**.



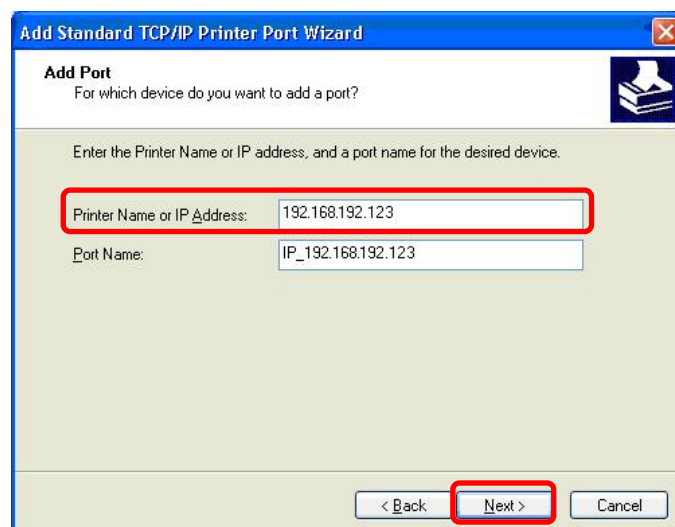
6) Select **Standard TCP/IP Port** and click **New port**.



7) When standard TCP/IP printer add wizard window pops up, click **Next**.



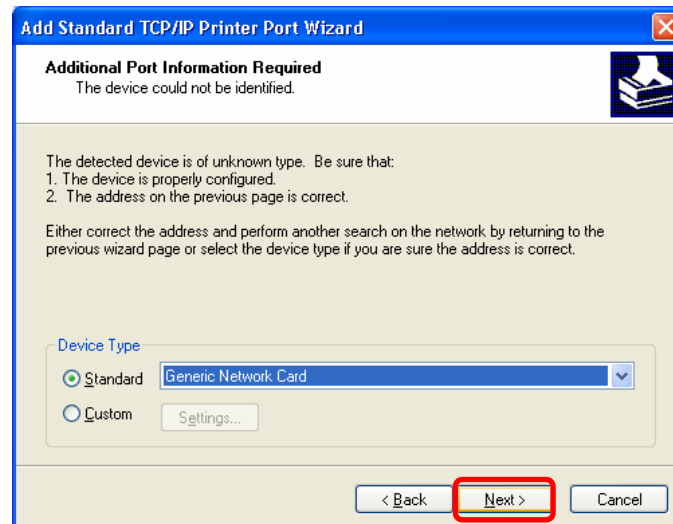
8) Enter printer IP at **Printer Name or IP Address** and click **Next**.



[Note]

- Enter same IP address as the Ethernet interface card. Enter only at **Printer Name or IP Address**.

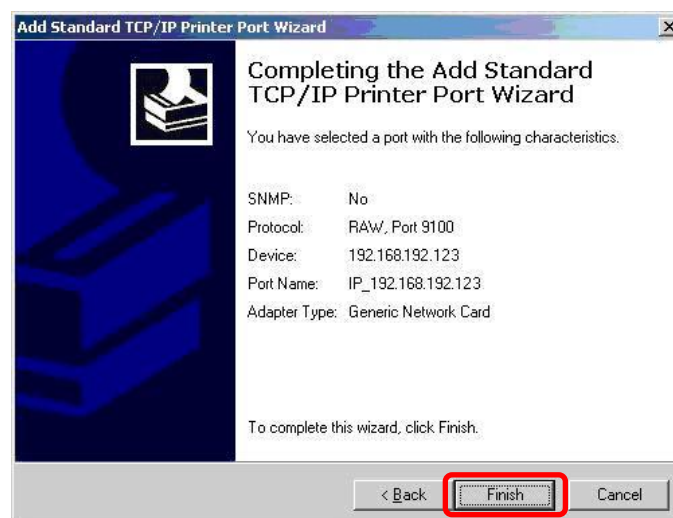
9) Click **Next**.



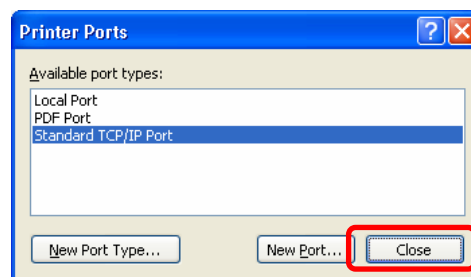
[Note]

- Click **Next** without any selection nor change.

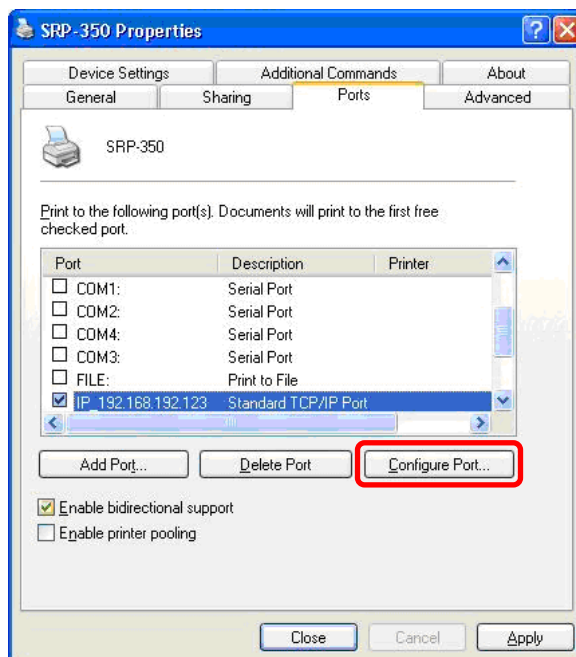
10) Click **Finish**.



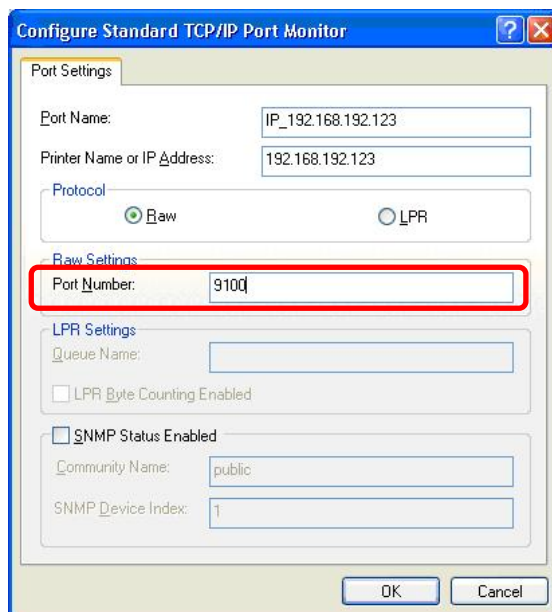
11) Click **Close** to close Printer port window



12) Click **Configure Port**.



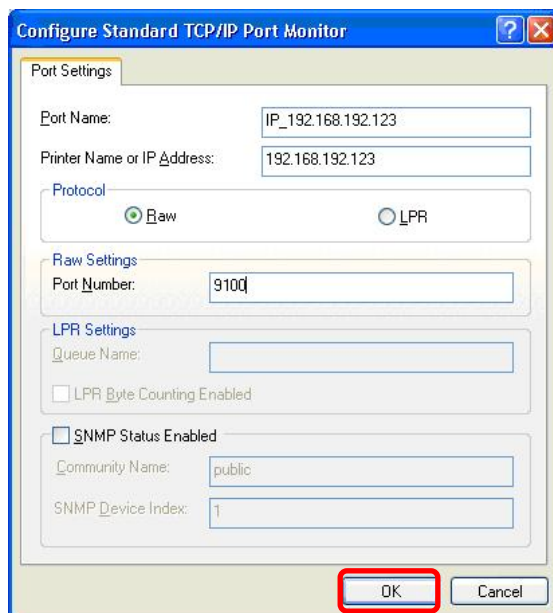
13) Enter same port number as the value of Local Port of the Ethernet interface at **Raw Setting**.



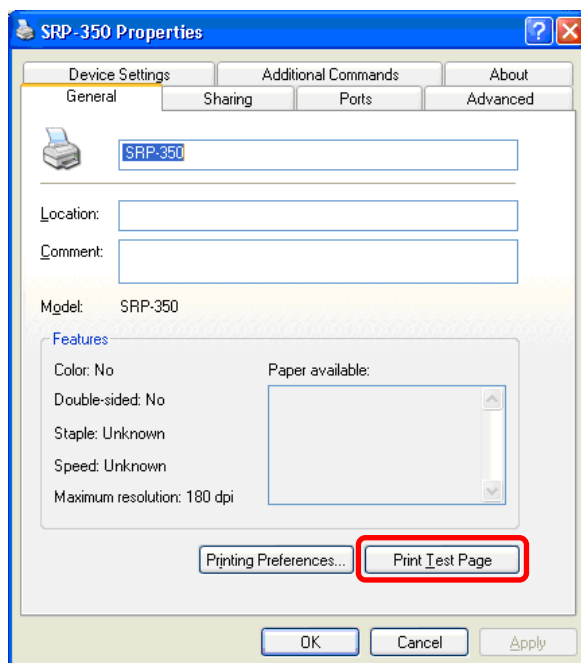
[Note]

- There is no change except **Raw Setting**.

14) Click **OK**.

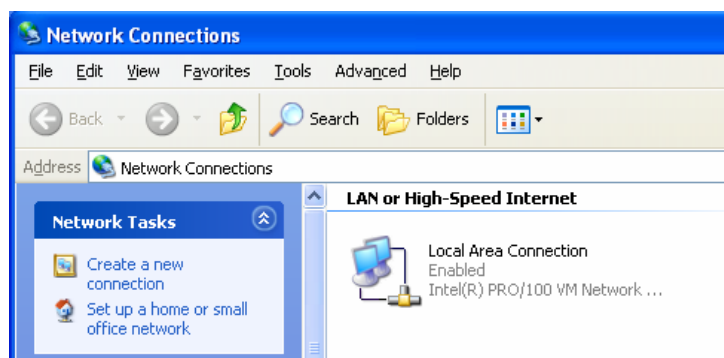


15) Select General tab and click **Print Test Page** to check if the printer works properly.

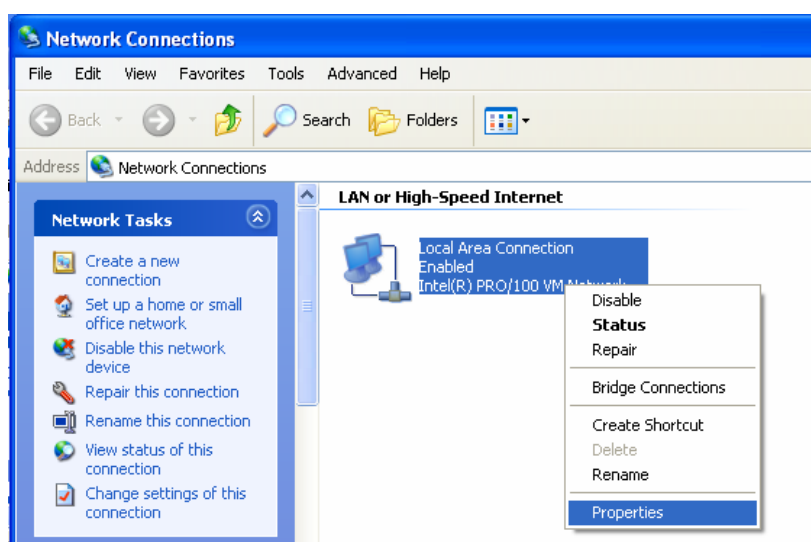


9. How to check Static IP or DHCP

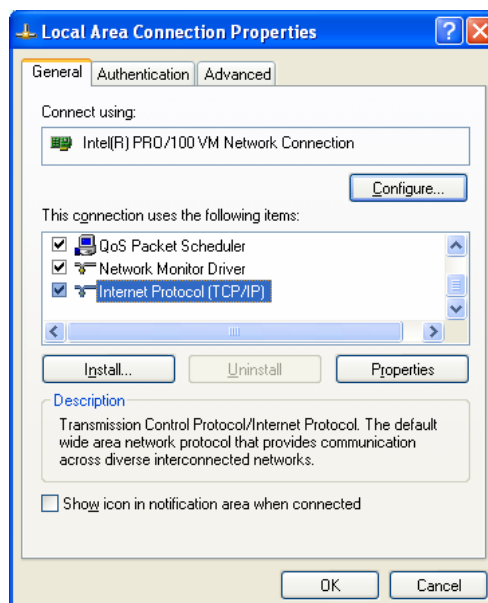
1) Start > Control panel > Network Connections



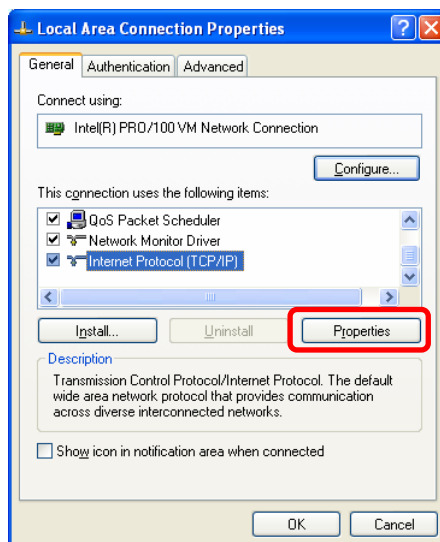
2) Select: “**Local Area Connection** and click it with the right button to select **properties**”



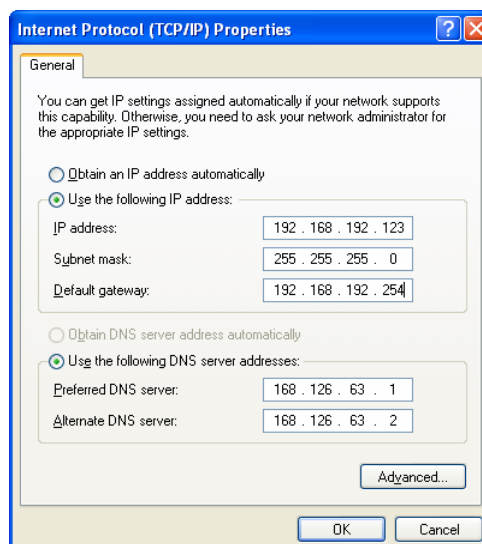
3) Select General tab and Select “**Internet Protocol(TCP/IP)**”.



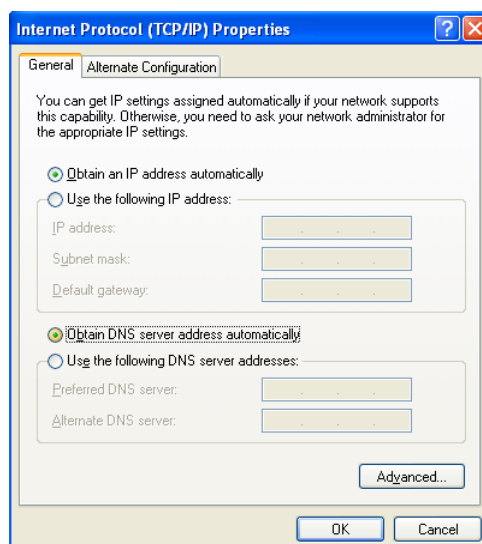
4) Click “**Properties**”.



5) Information of network registration with **Static IP**



6) Information of network registration with **DHCP**



10. Factory Reset

1) Default setting after factory reset

- Activate DHCP mode
- Local Port: 9100
- Inactivity Time: 0
- Speed
 - SRP-770II, SLP-T400: 230400 bps
 - SRP-270, SRP-275, SRP-280, SRP-350, SRP-350plus, SRP-370, SRP-372: 9600 bps

2) How to reset

- (1) Turn off the printer
- (2) Turn on the printer while pressing Function Key

[Note]

- Press Function key 3 more seconds after turning on the printer.

- (3) Wait 10 seconds until new IP address is allocated to the printer.
 - The IP address will be allocated automatically under DHCP mode.

[Note]

- DHCP Network environment
Connect to web-server with newly allocated IP address.
Check new IP address by pressing Function key
- Static IP Network environment
The IP address will not be allocated automatically.
Set up Static IP with Configuration utility.

- (4) Print Network setting information by pressing Function key
Connect web-server to change any network setting

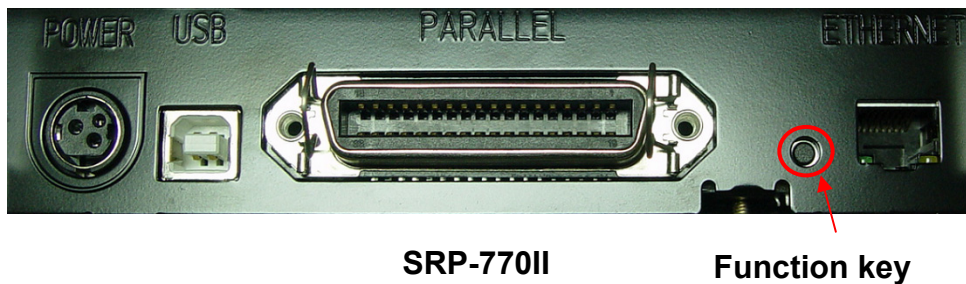
[Note]

- Check if the baud rate of the printer is set same as below.
 - SRP-770II, SLP-T400: 230400 bps
 - SRP-270, SRP-275, SRP-280, SRP-350, SRP-350plus, SRP-370, SRP-372: 9600 bps

11. Function Key set up

1) How to use

- (1) Turn on the printer
- (2) Wait 10 or more seconds until the Ethernet interface boots up
- (3) Push the Function key



- (4) The settings will be printed only one time since the printer is turned on.
- (5) Turn off and on the printer to print them again.

2) Printed settings

- MAC address
- IP address
- Subnet Mask
- Gateway
- Port
- Inactivity time
- Serial speed
- Firmware Version

[Appendix 1] Details of interface card

Item	Details
Network interface	10/100 Base-T All in one (Auto detection)
Protocol	TCP, UDP, IP, ICMP,IGMP, ARP, HTTP
IP mode	static IP, DHCP (Dynamic Host Configuration Protocol)
RX buffer	2K Byte
Flow control	Hardware (RTS/CTS)
Baud rate (Serial speed)	1200 ~ 230400 bps

[Appendix 2] Hardware version and Configuration Tool

Hardware version	Interface card	Printer	Configuration Tool file	Network interface
V5.x.x	IFA-E TYPE	SRP-270,280,350 SRP-370,372 SRP-350Plus	Configure_V5.x Web Server	10/100 Base-T All in one
	IFC-E TYPE	SRP-275		
	IFA-EP TYPE	SRP-350 SRP-350Plus		
	ON Board	SRP-770II		
V3.x.x	IFA-E TYPE	SRP-270,280,350 SRP-370,372 SRP-350Plus	Configure _V3.x	
	IFC-E TYPE	SRP-275		
	IFA-EO TYPE	SRP-770 SLP-T400		
V2.x.x	RIF-350E	SRP-270,280,350	Ethernet_V2.0	10 Base-T
V1.x.x	RIF-350E	SRP-270,280,350	Ethetnet_V1.3	10 Base-T

[Note]

-In case the hardware version is V5.X.X or higher, use Configure_V5.x or Web server.
You can simply use Web Server on Internet Explorer.

[Appendix 3] Setting up serial communication

1) Printer DIP switch set up

Printer	Baud rate & DSW set up			Handshaking & Parity
SRP-350	Baud rate	DSW 1-7	DSW 1-8	
	57600bps	OFF	ON	
	38400bps	ON	ON	
	19200bps	OFF	OFF	
	9600bps	ON	OFF	
SRP-350plus	Baud rate	DSW 1-6	DSW 1-7	DSW1-8
	115200bps	ON	ON	ON
	57600bps	OFF	OFF	ON
	38400bps	OFF	ON	ON
	19200bps	OFF	OFF	OFF
	9600bps	OFF	ON	OFF
	4800bps	ON	OFF	ON
	2400bps	ON	OFF	OFF
SRP-270 SRP-280	Baud rate	DSW 2-7	DSW 2-8	
	19200bps	ON	ON	
	9600bps	OFF	OFF	
	4800bps	ON	OFF	
	2400bps	OFF	ON	
SRP-370 SRP-372	Baud rate	DSW 1-1	DSW 1-2	
	115200bps	ON	ON	
	38400bps	OFF	ON	
	19200bps	ON	OFF	
	9600bps	OFF	OFF	
SRP-275	Baud rate	DSW 2-7	DSW 2-8	
	19200bps	ON	OFF	
	9600bps	OFF	OFF	
	4800bps	OFF	ON	
	2400bps	ON	ON	
SRP-770	Baud rate	DSW 2-1	DSW 2-2	
	115200bps	ON	ON	
	57600bps	OFF	ON	
	19200bps	ON	OFF	
	9600bps	OFF	OFF	
SRP-770 II	Baud rate	DSW 2-1	DSW 2-2	
	230400bps	OFF	ON	
	115200bps	ON	ON	
	19200bps	ON	OFF	
	9600bps	OFF	OFF	
SLP-T400	Baud rate	DSW 2-1	DSW 2-2	
	230400bps	OFF	ON	
	115200bps	ON	ON	
	19200bps	ON	OFF	
	9600bps	OFF	OFF	

DTR/DSR : SW 1-3 OFF
8 data bit : SW 1-4 OFF
None parity : SW 1-5 OFF

DTR/DSR: SW1-2 off
8 data bit: SW1-3 off
none parity: SW1-4 off

DTR/DSR : SW 2-3 OFF
8 data bit : SW 1-4 OFF
None parity : SW 1-5 OFF

DTR/DSR : SW 1-3 OFF
8 data bit : MSW 9
None parity : MSW 9
[Note]
- Use Memory SW to change

DTR/DSR : SW 2-3 OFF
8 data bit : SW 2-4 OFF
None parity : SW 2-5 OFF

RTS/CTS: SW2-3 ON
8 data bit
none parity

DTR/DSR
8 data bit
None parity
Fixed

DTR/DSR
8 data bit
None parity
Fixed

2) Set the baud rate (Serial speed)

- SRP-270,275,280: Max. 19200 bps
- SRP-350: Max. 57600 bps
- SRP-350Plus: Max. 115200 bps
- SRP-370,372: Max. 115200 bps
- SRP-770: Max. 115200bps
- SRP-770 II : Max. 230400 bps
- SLP-T400: Max. 230400 bps

[Note]

- The baud rate (Serial speed) of the interface card is from 1200 ~ 230400 bps.
- The baud rate (Serial speed) of the printer can be set with DIP switch

3) Virtual Driver

It converts output of Serial (COM) port into output of Ethernet (TCP/IP) port.
It is available for Windows 2000, XP, 2003 server (32bit), Vista (32bit).