



SATO Network Interface Card Configuration Instructions



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1. Reset of wired/wireless interface card

- a) Power off the printer and remove the top and bottom screw holding the interface card in place on the back of the printer. Pull the interface card out of the printer.
- b) On the interface card, look for 4 small dip switches. Turn dip switch number 2 on (away from the number), then reinstall the interface card on the back of the printer. Do not screw the top and bottom screws back in yet.
- c) Power the printer on and wait for about 30 seconds.
 Power off the printer and pull the interface card back out. Turn dip switch number 2 on the interface card back down and re-insert the card into the printer. Put



the top and bottom screw back into the printer that holds the interface card in place.

(*** Note: The pictures below show our current Network Interface cards which are only compatible with "e" series printers. If you have a non "e" series printer they will not work.)





2. Installing the All-In-One Utility (recommended)

- a) Go to <u>www.satoamerica.com</u>
- b) On the left side of the main page click the "Resource Library" tab. Click on "All-In-One Printer Utility" in the expanded section heading.
- c) Click on "Download the All-In-One Software". (Please make sure to have .NET FRAMEWORK 2.0 or higher on the computer. There is a link on this page to download and install it).
- d) When prompted to open or save the file for download, make sure to save the file to the computer's desktop or designated download folder.
- e) When the file is finished downloading, navigate to the folder the file was downloaded/saved to – right-click on downloaded filename and and click "Extract All..." from the quick pick menu. Keep the directory as the default to unzip the file to the desktop. (If you are using Windows 7 and have a prompt asking if you would like to copy this file without encryption, choose "yes".)
- f) Once files have been extracted, open the folder to view installation files.
- g) Next double-click on setup.exe. Follow the on-screen instructions to install the application.



3. Configuring wired/wireless Ethernet with All-In-One Utility

- a) If the card has been previously configured or you would like to start from scratch to configure the card, follow the "Reset of wired/wireless interface card" procedure on page 3 before continuing.
- b) There are three different methods for configuring a wired Ethernet interface card for a SATO printer. (A) Connection direct from PC/laptop to printer with a cross over cable.(B) Connection over a network. (C) Connection through a switch or hub.

A. Direct connection with cross-over cable

(1) Be sure to have a cross over cable accessible. The difference in a regular Ethernet cable and a cross over cable is how the end of the cable is wired.



(2) Connect one end of the cross over cable to the PC or Laptop and the other end to the back of the printer. (Do not turn the printer on yet).



- (3) The next couple steps will describe configuration of the computer for a static IP address; these steps are based on Windows XP; if you have Windows Vista or Windows 7 you can still change the same settings, but the process to do so is different.
- (4) Click on "Start".



(6) Double click on "Network Connections".



start

Control Panel

(7) Right click on
 "Local Area
 Connection" and
 then click
 "Properties".



 (8) Scroll down the list of connections and click on "Internet Protocol (TCP/IP)" and then click "Properties".

This connection uses the following items:

	-	
🗹 🐨 NWLin	k NetBIOS	~
🛛 🗹 🐨 NWLin	k IPX/SPX/NetBIOS Compat	ible Transport Prot
🛛 🗶 🔭 Interne	t Protocol (TCP/IP)	
		~
<		>
Install	Uninstall	Properties



(9) Chose the option for "Use the following IP address:" and assign the computer with an IP address within the same range of what you want to assign to the printer. For example, if you are setting the printer to 192.168.1.126 you will want to use an IP address that has the last octet

Subnet mask:	255 . 255 . 255 . 0
Default gateway:	
) Obtain DNS server ad	dress automaticallu
Use the following DNS	S server addresses:
/	
Preferred DNS server:	
Preferred DNS server: Alternate DNS server:	· · ·

off by one number like in the picture to the right. The subnet mask will be based upon your IP address. If you need a list of appropriate subnet masks based upon your IP address you may need to consult your IT department or look up what subnet mask you need to have based upon your IP address on the internet.

(10) After clicking ok from configuring the IP address and subnet mask, on the previous window click on "Install". This connection uses the following items:



(11) Next, click on "Protocol" and then click "Add".





Have Disk...

Cancel

(10) C	
(12) Select the	Network Protocol:
protocol	Wicrosoft TCP/IP version 6
listed as	💱 Network Monitor Driver
"IPX/SPX"	💐 NW/Link IPX/SPX/NetBIOS Compatible Transport Protoco
and then	
click "OK".	
(Windows	This driver is digitally signed.
Vista and	Teirme why driver signing is important
Windows 7	
does not	01

have this protocol so you can skip this step.)

(13) You can now close all the open windows and turn the printer on. Next, open the ALL IN ONE Application (Click "Start", "All Programs", "SATO", and then "SATO All-In-One Application"). Once open click the shortcut key for "IP Assignment tool". (Shortcut key indicated by the red box).



(14) The IP Assignment tool will automatically scan the network for the printer. The list below shows 2 printers on a network, however your list should only show 1 printer with an IP address of 0.0.0.0. Click on your printer in the list and then click "Assign IP". (If you do not see anything in the list make sure you do not have any antivirus packages that include a firewall, if you do, please disable it. Also, if you are using Windows 7, you will have to disable the windows firewall).

6	Printer N	letwork Setup)			×
	Refresh	Assign IP	Reboot LAN	Restart Printer	Add S	Setup
	Printer	IP Address	Mac Address	Info	Status	
	PR4159A6	192.168.1.100	00:80:92:41:59:A6	SATO PRINTER	Online State : Ready	,
	PR39D11B	192.168.1.155	00:80:92:39:D1:1B	SATO PRINTER	Online State : Ready	,





(15) On the next screen uncheck "DHCP" and "RARP" and then assign your IP address, subnet mask and default gateway. If you are unsure of what to assign, contact your IT department. After changing the appropriate settings, click "Apply" at the bottom.

3 N	etwork Interfac	e Setting	×
	MAC Address	00-80-92-41-59-A6	
	IP Address	0.0.0.0	
	Subnet Mask	0.0.0.0	
	Default Gateway	0.0.0.0	
	No Wire Apply	eless Lan Close	

(16) A success message will pop up. Click "Yes" to reboot the interface.

Network Configuration Setting Successful. Changes will only take affect after the Network Interface is rebooted. Do you want to Reboot Now

Yes	No
-----	----

- (17) Click "OK" on the next screen. After clicking ok, wait about 1 minute and then continue to click the "Refresh" button on the previous window until you see the IP address that you just set on the printer.
- (18) Your printer is now set up properly. If you are keeping the computer hooked up permanently this way, you will need to install the printer driver and labeling software package to start printing. If the printer is being put on a network, power off the printer and use a regular Ethernet cable to connect the printer to the network.



B. Connection over a network.

- (1) Before starting this configuration over a network please be aware that different networks are set up with different levels of security. If this process fails, please revert to Section A (**Direct connection with cross-over cable**) to eliminate the possibility of the security on the network causing issues with set up of the interface card.
- (2) If the card has been previously configured or you would like to start from scratch to configure the card, follow the "Reset of wired/wireless interface card" procedure on page 3 before continuing.
- (3) Make sure to have a regular Ethernet cable hooked up from the network to the printer and power on the printer. Your computer will also need to be connected to the same network as the printer.
- (4) Open the ALL IN ONE Application (Click "Start", "All Programs", "SATO", and then "SATO All-In-One Application"). Once open click the shortcut key for "IP Assignment tool".

5	e si	ATO AII-I	n-One P	rinter U	tilities					
	File	Printer	View	Tools	Options	Help				
	s:	1	2	X 🖺	46 🖾	2 4	🖅 🗘	60	2	
Γ	{	🗿 Main								

(5) The IP Assignment tool will automatically scan the network for the printer. The list below shows 2 printers on a network. Click on the printer in the list and then click "Assign IP" to set a static address to it. If you want to keep the network card on DHCP then just record the IP address to set it up in the printer driver.

8	Printer N	letwork Setup)			×
	Refresh	Assign IP	Reboot LAN	Restart Printer	Add	etup
	Printer	IP Address	Mac Address	Info	Status	
	PR4159A6	192.168.1.100	00:80:92:41:59:A6	SATO PRINTER	Online State : Ready	
	PR39D11B	192.168.1.155	00:80:92:39:D1:1B	SATO PRINTER	Online State : Ready	



(6) On the next screen uncheck "DHCP" and "RARP" and then assign the IP address, subnet mask and default gateway. If you are unsure of what to assign, contact your IT department. After changing the appropriate settings, click "Apply" at the bottom.

BN	etwork Interfac	e Setting	×
	MAC Address	00-80-92-41-59-A6]
	IP Address	0.0.0.0]
	Subnet Mask	0.0.0.0]
	Default Gateway	0.0.0.0]
	No Win	eless Lan Close	

No

 (7) A success message will pop up. Click "Yes" to reboot the interface.
 Network Configuration Setting Successful. Changes will only take affect after the Network Interface is rebooted. Do you want to Reboot Now

Yes

- (8) Click "OK" on the next screen. After clicking ok, wait about 1 minute and then continue to click the "Refresh" button on the previous window until you see the IP address just set on the printer.
- (9) Your printer is now set up properly. Now you will need to install the appropriate printer driver and labeling software.

C. Connection through a switch or hub.

- If the card has been previously configured or you would like to start from scratch to configure the card, follow the "Reset of wired/wireless interface card" procedure on page 3 before continuing.
- (2) A switch, hub, or router is needed as well as 2 regular Ethernet cables. Hook one Ethernet cable from the hub/switch to the printer, and another Ethernet cable from a different port in the hub/switch to the PC.
- (3) The next couple steps will describe configuration of the computer for a static IP address; these steps are based on Windows XP; if you have Windows Vista or Windows 7 you can still change the same settings, but the process to do so is different.
- (4) Click on "Start".
- (5) Click "Control Panel". (If "Control Panel" is not shown, click "Settings" and then "Control Panel".
- (6) Double click on "Network Connections".



start



(8) Scroll down the list of connections and click on "Internet Protocol (TCP/IP)" and then click "Properties".

This connection	uses the following items:	
🗹 🐨 NWLin	k NetBIOS	^
🗹 🐨 NWLin	k IPX/SPX/NetBIOS Compati	ble Transport Prot
M 🐨 Interne	t Protocol (TCP/IP)	
<		>



(9) Chose the option for "Use the following IP address:" and assign the computer with an IP address within the same range of what you want to assign to the printer. For example, if you are setting the printer to 192.168.1.126 you will want to use an IP address that has the last octet

Obtain an IP address autom Use the following IP address	atically «
IP address:	192.168.1.125
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	· · · ·
Preferred DNS server: Alternate DNS server:	
	Advanced

off by one number like in the picture to the right. The subnet mask will be based upon your IP address. If you need a list of appropriate subnet masks based upon the IP address you may need to consult your IT department or look up what subnet mask you need to have based upon the internet's IP address.

(10) After clicking ok from configuring the IP address and subnet mask, on the previous window click on "Install". This connection uses the following items:



(11) Next, click on "Protocol" and then click "Add".

Click the type of network component you want to install:
Client
E Service
ঝল Protocol
Description
A client provides access to computers and files on
the network you are connecting to.
Add Cancer



(12) Select the Network Protocol: protocol Wicrosoft TCP/IP version 6 listed as 💱 Network Monitor Driver "IPX/SPX" WLink IPX/SPX/NetBIOS Compatible Transport Protocol and then click "OK". 💱 This driver is digitally signed. (Windows Have Disk... Tell me why driver signing is important Vista and Windows 7 0K Cancel does not

have this protocol so you can skip this step.)

(13) Close all your open windows and power the printer on. Next, open your ALL IN ONE Application (Click "Start", "All Programs", "SATO", and then "SATO All-In-One Application"). Once open click the shortcut key for "IP Assignment tool".



(14) The IP Assignment tool will automatically scan the network for the printer. The list below shows 2 printers on a network, however your list should only show 1 printer with an IP address of 0.0.0.0. Click on your printer in the list and then click "Assign IP". (If you do not see anything in the list make sure you do not have any antivirus packages that include a firewall, if you do, please disable it. Also, if you are using Windows 7, you will have to disable the windows firewall).

8	Printer N	etwork Setup)			
	Refresh	Assign IP	Reboot LAN	Restart Printer	Add	etup
	Printer	IP Address	Mac Address	Info	Status	
	PR4159A6	192.168.1.100	00:80:92:41:59:A6	SATO PRINTER	Online State : Ready	
	PR39D11B	192.168.1.155	00:80:92:39:D1:1B	SATU PRINTER	Online State : Ready	





(15) On the next screen uncheck "DHCP" and "RARP" and then assign the IP address, subnet mask and default gateway. If you are unsure of what to assign, contact your IT department. After changing the appropriate settings, click "Apply" at the bottom.

BN	Network Interface Setting						
	MAC Address	00-80-92-41-59-A6	6				
	DHCP	RARP					
	IP Address	0.0.0.0					
	Subnet Mask	0.0.0.0					
	Default Gateway	0.0.0.0					
	No Win	eless Lan					

(16) A success message will pop up. Click "Yes" to reboot the interface.

Network Configuration Setting Successful. Changes will only take affect after the Network Interface is rebooted. Do you want to Reboot Now



- (17) Click "OK" on the next screen. After clicking ok, wait about 1 minute and then continue to click the "Refresh" button on the previous window until you see the IP address that you just set on the printer.
- (18) Your printer is now set up properly. If you are keeping the computer hooked up permanently this way, you will just need to install your printer driver and labeling software package to start printing. If the printer is being put on a network, just turn the power on the printer off and use a regular Ethernet cable to connect the printer to your network.



D. Setting up wireless configuration.

 Before starting this section, make sure dip switch number 4 on the wireless Ethernet card is in the up position to have the wireless mode enabled for infrastructure.



- (2) Follow one of the previous 3 methods above (Section A, B, or C) to establish communication through the wired portion of the Ethernet card before continuing to the next step.
- (3) Open the All-In-One Utility and then select the "IP Assignment Tool".

SATO All-In-One Printer Utilities																
File	F	rinter	۷	'iew	To	ools	Opt	ions	Н	elp						
	P		Ø	Ø	×		46		~	4	<u>3</u> -	⚠	60	2		
{	🧿 М	ain														

(4) Select the printer to set up wirelessly and click on "Assign IP".

S Printer Network Setup)	
Refresh Assign IP	Reboot LAN Restart Printer	Add Setup
Printer IP Address	Mac Address Info	Status
PR4159A6 192.168.1.188	00:80:92:41:59:A6 SATO PRINTER	Online State : Ready
PR39D11B 192.168.1.155	00:80:92:39:D1:18 SATO PRINTER	Online State : Ready
PR41CE6E 192.168.1.111	00:80:92:41:CE:6E SATO PRINTER WL	Online State : Ready



(6) The SSID will be the wireless network name. Authentication designates the preference to leave the connection open, or secure with a password. If you do use a password you have the option of WEP, or WPA. After setting all of the appropriate information, click "Apply".

🛇 Wireless LAN Se	tting				
SSID: TS1			32 CI	hars[max.]	
Channel :	11	*	ſ		
Authentication:	Open System	~		Apply	Close
WEP Config WEF	9802.1X Config	WPA C	onfig		
	WPA Mode :	PSK		~	
	Encryption :	TKIP		*	
WPA-PSK Confi	9				
Pre-Shared Ke	y:			8	- 63 Chars

- (7) After the changes have been applied power the printer off, disconnect the Ethernet cable on the back and restart the printer.
- (8) You should now be able to communicate with the printer wirelessly. Make sure to install the appropriate printer drivers and labeling software to complete your setup.

(**Note: If you would like to use the wireless card in Ad hoc mode, put dip switch number 4 on the interface card to the off position.)

Autorun.exe



4. Installing the Admin Manager (legacy Ethernet installation utility)

- a) Go to http://www.satoamerica.com/resource-library/software/utilities.aspx webpage.
- b) In the table, click "Admin Manager".Once you click on the link to download the Admin Manager utility, select "Save" option to save the file to the specified folder location (desktop folder is recommended).
- c) Once the download is complete, right click on the file named "AdminMgrV230.zip" on the desktop and click "Extract All". You can leave the default location on the extraction wizard to extract the file to your desktop. (If you are using Windows 7 and are prompted if you would like to copy files without encryption, choose "yes").
- d) Look for the new folder created on the desktop named "AdminMgrV230" without a zipper on it and double click on this folder.
- e) Double click on the "V230" folder, then double click on "Autorun.exe"
- f) On the next screen click on "Setup".



g) Next click on "Advanced Setup".





 When prompted for another installation choice, use "Installing Admin Manager in your PC". ○ Without installing, direct activation via CD-ROM is possible (this helps no HD space requirement on the PC)

 Installing AdminManager in your PC (It is recommended if you frequently use it)

- j) Accept the license agreement on the next page and keep the file directory on the default directory and click "Next". Follow the next couple pages to finish the installation process.
- k) The last step will ask to activate admin manager. If yes is selected, the program will automatically open, if no is selected, the installation will be complete.



5. Configuring wired/wireless Ethernet with Admin Manager

- a) If the card has been previously configured or you would like to start from scratch to configure the card, follow the "Reset of wired/wireless interface card" procedure on page 3 before continuing.
- b) There are three different methods for configuring a wired Ethernet interface card for SATO printers. (A) Connection direct from PC/laptop to printer with a cross over cable.(B) Connection over a network. (C) Connection through a switch or hub.

A. Direct connection with cross-over cable

(1) Make sure to have a cross over cable available. The difference in a regular Ethernet cable and a cross over cable is how the end of the cable is wired.



(2) Connect one end of the cross over cable to the PC or Laptop and the other end in the back of the printer. (Do not turn the printer on yet).



- (3) The next couple steps will describe configuration of the computer for a static IP address; these steps are based on Windows XP; if you have Windows Vista or Windows 7 you can still change the same settings, but the process to do so is different.
- (4) Click on "Start".
- (5) Click "Control Panel". (If "Control Panel" is not shown, click "Settings" and then "Control Panel".



(6) Double click on "Network Connections".



Bridge Connections

Create Shortcut

Delete Rename Properties

(7) Right click on
 "Local Area
 Connection" and
 then click
 "Properties".



 (8) Scroll down the list of connections and click on "Internet Protocol (TCP/IP)" and then click "Properties".

This connection uses the following items:

I R NWLir I R NWLir I R NWLir	nk NetBIOS nk IPX/SPX/NetBIOS Compat et Protocol (TCP/IP)	ible Transport Prot
<	1111	
Install	Uninstall	Properties



(9) Chose the option for "Use the following IP address:" and assign the computer with an IP address within the same range of what you want to assign to the printer. For example, if you are setting your printer to 192.168.1.126 you will want to use an IP address that has the last octet

Obtain an IP address automat	ically
• Use the following IP address:	
IP address:	192.168.1.125
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	
Preferred DNS server:	· · ·
Alternate DNS server:	

off by one number like in the picture to the right. The subnet mask will be based upon your IP address. If you need a list of appropriate subnet masks based upon your IP address you may need to consult your IT department or look up what subnet mask you need to have based upon your IP address on the internet.

(10) After clicking ok from configuring the IP address and subnet mask, on the previous window click on "Install". This connection uses the following items:



(11) Next, click on "Protocol" and then click "Add".

Click the type of network component you want to install:
E Client
Service
ী≓ Protocol
Description
A client provides access to computers and files on the network you are connecting to.
Add Cancel



(12) Select the protocol listed as "IPX/SPX" and then click "OK". (Windows Vista and Windows 7 does not

	Network Protocol:		
	Wicrosoft TCP/IP version 6		
	💱 Network Monitor Driver		
	NWLink IPX/SPX/NetBIOS Compatible Trans	port Protocol	
	The This drives is disitely since d		
E	This onver is algually signed.		Have Disk
	Tell me why arriver signing is important		
-			
/			
			Lancel

have this protocol so you can skip this step.)

(13) Close all of the open windows and power on the printer. Open the Admin Manager program. Admin Manager will automatically scan the printer when the program opens. In the list there is only one printer with the IP address "0.0.0.0" and an Ethernet address next to it. (If you do not see anything in the list, make sure to disable any antivirus packages including firewalls. Also, in Windows 7, the Windows firewall must be disabled.)

🕂 AdminManager		
File Status Configu	iration Option Help	
🔦 🎓 🛛		6
Model Name	Ethernet Address IP Address	Print Server Name
SATO PRINTER SATO PRINTER	00:80:92:39:d1:1b 192.168.1.155 00:80:92:41:59:a6 192.168.1.188	PR39D11B PR4159A6

(14) Right click on your printer in the list and click "Configuration via web browser".You will then be prompted to assign an IP address to the printer. After assigning an IP address, you will get confirmation.

🖡 AdminManager		
<u>File Status C</u> onfigur	ration <u>O</u> ption <u>H</u> elp	
🍂 浴 🖹	🏅 <u> </u> 📓 📓 🛸 🏂	4
Model Name	Ethernet Address IP Address Pri	nt Server Name
SATO PRINTER	00:80:92:39:d1:1b 192.168.1.155 PR3	9D11B
SATO PRINTER SATO PRINTER SATO PRINTER WL	00:80:92:41:50:20 400 400 4 400 DB4 00:80:92:41 Print Server Configuration. 00:80:92:41 Configuration via Web browser	
	Configuration via TELNET	



(15) Close Admin Manager and open Internet Explorer. Go to the address bar at the top and type the IP address just assigned to the printer. You will be routed to a page as shown to the right.

TCD/ID Config [halp]

	<i>WPC</i> Plus [™]	
NATO PRINTER	PRINTER STATUS(GT424+)	[Relead]
Japanese 12	Printer status	
Display Status F Partie Status F System Status	Beedy	
Printer Carlingerting with	Printer information	
Option Setting	Firmware Verbion	
 DIP Society Setting Test Printing 	SYSTEM STATUS(GT424+)	[Relead]
Server Configuration wa	TCP/IP status	
PrintServer	TODATE PREFILE	

- (16) On the left side of the screen, under "Server Configuration" click on "Print Server". You will be prompted to input a username and password. The username is "root" and the password is "" (no password).
- (17) At the top of the screen you will see an option for "TCP/IP". After clicking on this tab you can disable DHCP, and set your IP Address, Subnet Mask, and Default Gateway. When finished, click the "Submit" button at the bottom and you should see "Accepted" to let you know the changes were successful.

Server Configuration == PrintServer E-mail(Send) Restart PrintServer Factory Defaults

[General] [TCP/IP] [NetWare] [NetBEUI/NetBIOS] [SNMP] [PRINTER]

Name	Value			
TCP/IP protocol	ENABLE 💌			
DHCP/BOOTP protocol	DISABLE 💌			
RARP protocol	DISABLE 💌			
IP address	192.168.1.188			
Subnet mask	255.255.255.0			
Gateway address	192.168.1.1			

(18) Your printer is now set up properly. If you are keeping the computer hooked up permanently this way, you will just need to install your printer driver and labeling software package to start printing. If the printer is being put on a network, just turn the power on the printer off and use a regular Ethernet cable to connect the printer to your network.



B. Connection over a network.

- (1) Before starting this configuration over a network please be aware that different networks are setup with different levels of security. If this process fails, please revert to Section A (**Direct connection with cross-over cable**) to eliminate the possibility of the security on the network causing issues with setup of the interface card.
- (2) If the card has been previously configured or you would like to start from scratch to configure the card, follow the "Reset of wired/wireless interface card" procedure on page 3 before continuing.
- (3) Make sure to have a regular Ethernet cable hooked up from the network to the printer and power on the printer. The computer will also need to be connected to the same network as the printer.
- (4) Open the Admin Manager application (Click "Start", "All Programs", "Admin Manager"). The program will automatically scan the network for any SATO network interface cards. Once you see the appropriate printer, right click on it and click "Configuration via web browser" to set a static address to it. If the card needs to stay on DHCP, record the IP address and set it up in the printer driver at a later time.

👫 AdminManager			
<u>File St</u> atus <u>C</u> onfigu	ration <u>O</u> ption <u>H</u> elp		
🍂 🕎 🖁	š 🛒 📓		
Model Name	Ethernet Address	IP Address	Print Server Name
SATO PRINTER	00:80:92:39:d1:1b	192.168.1.155	PR39D11B
SATO PRINTER SATO PRINTER SATO PRINTER WL	00:80:92:41 00:80:92:41 00:80:92:41 Con	It Server Configuration via Web bro	ation
	Con	figuration via TELNET	



(5) Close Admin Manager and oper Internet Explorer. to the address bar the top and type th IP address just assigned to the printer. You will be routed to a page a shown to the right.

	WPC Plo	JS™
NATO PRINTER	PRINTER STATUS(GT424+)	<u>j Relea</u>
Version A1.2.5 Juneauxy 22	Printer status	
Iopiny Status Ponter Status System Status	Ready	
ter Configuration w0	Printer information	
ption Setting IP Socieda Service	Firsware Verbion	
of Printing	SYSTEM STATUS(GT424#)	<u> </u> Relea
ever Configuration +0	TCP/IP status	
PrintServer	TTD/TD PERSON	

(6) On the left side of the screen, under "Server Configuration" click on "Print Server". You will be prompted to input a username and password. The username is "root" and the password is "" (no password).

Server Configuration -PrintServer E-mail(Send) Restart PrintServer Factory Defaults

(7) At the top of the screen you will see an option for "TCP/IP". After clicking on this tab you can disable DHCP, and set your IP Address, Subnet Mask, and Default Gateway. When finished, click the "Submit" button at the bottom and you should see "Accepted" to let you know the changes were successful.

[NetWare] [NetBEUI/NetBIOS] [SNMP] [PRINTER] [General] [TCP/IP]

TCP/IP Config [help]			
Name	Value		
TCP/IP protocol	ENABLE 💌		
DHCP/BOOTP protocol	DISABLE 🛩		
RARP protocol	DISABLE 🛩		
IP address	192.168.1.188		
Subnet mask	255.255.255.0		
Gateway address	192.168.1.1		

(8) Your printer is now setup properly. You will need to install the appropriate printer driver and software package to begin printing.



- (1) If the card has been previously configured or you would like to start from scratch to configure the card, follow the "Reset of wired/wireless interface card" procedure on page 3 before continuing.
- (2) You will need to have a switch, hub, or router to act as a switch as well as 2 regular Ethernet cables. Hook one Ethernet cable from your hub/switch to your printer, and another Ethernet cable from a different port in your hub/switch to your PC.
- (3) The next couple steps will describe configuration of the computer for a static IP address; these steps are based on Windows XP; if you have Windows Vista or Windows 7 you can still change the same settings, but the process to do so is different.
- (4) Click on "Start".
- (5) Click "Control Panel". (If "Control Panel" is not shown, click "Settings" and then "Control Panel".
- (6) Double click on "Network Connections".





(8) Scroll down the list of connections and click on "Internet Protocol (TCP/IP)" and then click "Properties".

This connection uses the following items:







Network Connections





(9) Chose the option for "Use the following IP address:" and assign the computer with an IP address within the same range of what you want to assign to the printer. For example, if you are setting your printer to 192.168.1.126 you will want to use an IP address that has the last octet

Paddress:	192.168.1.125
oubnet mask: Default gateway:	
) Obtain DNS server address auto	omatically
Use the following DNS server ad	ddresses:
Use the following DNS server as Preferred DNS server:	ddresses:

off by one number like in the picture to the right. The subnet mask will be based upon your IP address. If you need a list of appropriate subnet masks based upon your IP address you may need to consult your IT department or look up what subnet mask you need to have based upon your IP address on the internet.

(10) After clicking ok from configuring the IP address and subnet mask, on the previous window click on "Install". This connection uses the following items:



(11) Next, click on "Protocol" and then click "Add".

Click the type of network component you want to install:
Client
Service
3, Frotocol
Description
Description
A client provides access to computers and files on the petwork you are connecting to
the network you are connecting to.
Add Cancel



(12) Select the protocol listed as "IPX/SPX" and then click "OK". (Windows Vista and Windows 7 does not

~	
е	Network Protocol:
	SV Microsoft TCP/IP version 6
	💱 Network Monitor Driver
<"	🖼 NWLink IPX/SPX/NetBIOS Compatible Transport Protocol
/ //	
< . 	This driver is digitally signed.
1	Tell me why driver signing is important
L	
s 7	
t	OK Cancel

have this protocol so you can skip this step.)

(13) Close all open windows and power on the printer. Open the Admin Manager program. Admin Manager will automatically scan the printer when the program opens. In the list there is only one printer with the IP address "0.0.0.0" and an Ethernet address next to it. (If you do not see anything in the list, make sure to disable any antivirus packages including firewalls. Also, in Windows 7, the Windows firewall must be disabled.)

🕂 AdminManager		
File Status Configu	ration Option Help	
🔦 🎓 🗄	s 🔊 🔊 🖾 🖉 🖓	
Model Name	Ethernet Address IP Address Print Ser	ver Name
SATO PRINTER SATO PRINTER	00:80:92:39:d1:1b 192.168.1.155 PR39D11 00:80:92:41:59:a6 192.168.1.188 PR4159A	B .6

(14) Right click on your printer in the list and click "Configuration via web browser".You will then be prompted to assign an IP address to the printer. After assigning an IP address, you will get confirmation.

🗛 AdminManager		
<u>File Status Configuration Option</u>	Help	
* 8 🖌	Si 📰 🔤 🗸	_
Model Name Ethernet Ad	dress IP Address	Print Server Name
SATO PRINTER 00:80:92:39:	d1:1b 192.168.1.155	PR39D11B
SATO PRINTER 00:80:92:411 SATO PRINTER 00:80:92:411 SATO PRINTER WL 00:80:92:411	Print Server Configuration via Web bro	ition
	Configuration via TELNET	



(15) Close Admin Manager and open Internet Explorer. Go to the address bar at the top and type the IP address just assigned to the printer. You will be routed to a page as shown to the right.

	WPC Pl	JS™
NATO PRINTER	PRINTER STATUS(GT424+)	<u> </u> Relea
Version A1.2.5 Junears 32	Printer status	
Display Status Monte: Status Monte: Status	Beady	
Printer Configuration with	Printer information	
• Option Setting	Firmwire Version	
 DIP Society Seriing Test Printing 	SYSTEM STATUS(GT424#)	<u> Relea</u>
Server Configuration -0	TCP/IP states	
EnntServer	TODATE PERSON	

- (16) On the left side of the screen, under "Server Configuration" you will want to click on "Print Server". You will be prompted to input a username and password. The username is "root" and the password is "" (no password).
- (17) At the top of the screen you will see an option for "TCP/IP". After clicking on this tab you can disable DHCP, and set your IP Address, Subnet Mask, and Default Gateway. When finished, click the "Submit" button at the bottom and you should see "Accepted" to let you know the changes were successful.
 Server Configuration -->
 PrintServer
 E-mail(Send)
 Restart PrintServer
 Factory Defaults

[General] [TCP/IP] [NetWare] [NetBEUI/NetBIOS] [SNMP] [PRINTER]

TCP/IP Config [help]			
Name	Value		
TCP/IP protocol	ENABLE 🚩		
DHCP/BOOTP protocol	DISABLE 🛩		
RARP protocol	DISABLE 🛩		
IP address	192.168.1.188		
Subnet mask	255.255.255.0		
Gateway address	192.168.1.1		

(18) Your printer is now setup properly. If you are keeping the computer hooked up permanently this way, you will need to install the printer driver and labeling software package to start printing. If the printer is being put on a network, turn the power off and use a regular Ethernet cable to connect the printer to the network.



D. Setting up a wireless configuration.

- Before starting this section, make sure dip switch number 4 on the wireless Ethernet card is in the up position to have the wireless mode enabled for infrastructure.
- (2) Follow one of the previous 3 methods above (Section A, B, or C) to establish communication through the wired



portion of the Ethernet card before continuing to the next step.

(3) Open the Admin Manager application (Click "Start", "All Programs", "Admin Manager"). The program will automatically scan the network for any SATO network interface cards. Once you see the appropriate printer, right click on it and click "Configuration via web browser" to set a static address to it. If the card needs to stay on DHCP, record the IP address and set it up in the printer driver at a later time.

🖡 AdminManager							
File Status Configuration Option Help							
考 🏂 🛒 📑 🖬 🏄							
Model Name	Ethernet Ad	dress	IP Address	Print Ser	ver Name		
SATO PRINTER	00:80:92:39:0	11:1b	192.168.1.155	PR39D11	В		
SATO PRINTER SATO PRINTER	00:80:92:41: 00:80:92:41: 00:80:92:41:	Print	Server Configu	ration			
SATU FRINTER WE	00.00.92.41.	Config	guration via TELNET		F		

(4) Close Admin Manager and open Internet Explorer. Go to the address bar at the

top and type the IP address just assigned to the printer. You will be routed to a page as shown to the right.

	WPC PIC	US™
NATUS PRINTIKK Vecent ALL Inputs Vecent ALL Inputs State Manuel State Manuel State	PRINTER STATUS(GT424+) Printer status Searty	<u> Relead I</u>
Printer Configuration +0 • Option Setting • DIP Solids Setting • Test Printing	Printer information Frankase Version SYSTEM STATUS(GT424+)	Relead
Server Configuration sets FlootServer	TCP/IP status	



(5) On the left side of the screen, under "Server Configuration" you will want to click on "Print Server". You will be prompted to input a username and password. The username is "root" and the password is "" (no password).

Server Configuration *** PrintServer E-mail(Send) Restart PrintServer Factory Defaults

(6) At the top of the screen you will see an option for "TCP/IP". After clicking on this tab you can disable DHCP, and set your IP Address, Subnet Mask, and Default Gateway. When finished, click the "Submit" button at the bottom and you should see "Accepted" to let you know the changes were successful.

[General] [TCP/IP] [NetWare] [NetBEUI/NetBIOS] [SNMP] [PRINTER]

TCP/IP Config help					
Name	Value				
TCP/IP protocol	ENABLE 💌				
DHCP/BOOTP protocol	DISABLE 💌				
RARP protocol	DISABLE 💌				
IP address	192.168.1.188				
Subnet mask	255.255.255.0				
Gateway address	192.168.1.1				

(7) Next click on the "Wireless" tab at the top and assign your ""SSID" name for your wireless network.

[General] [TCP/IP] [NetWare] [NetBEUI/NetBIOS] [SNMP] [Wireless] [PRINTER] [Certificate]

Wireless LAN Config[help]

Name	Value	Comment
SSID	TS1	32 letters[max.]

(8) Further down on this same page you will see options for WEP security and for WPA security. If you are using WEP, change the drop down box to "Enable" and select your appropriate key number and password (this would be provided by your IT staff). If you are using WPA security, change (Network Authentication) at the top of the page to "WPA" and then scroll down the page until you reach "WPA Config". Choose "TKIP" or "AES" depending on what your IT department wants you to use, and enter your password next to "Pre-Shared Key". If you are not using security at all, make sure "Network Authentication"



stays on "Open System" and do not change any settings other than the SSID on this page. When the entire configuration is complete, click "Submit" at the bottom of the page and you will get an "Accepted" message.

(9) You will now need to power the printer off, unhook the Ethernet cable, and power the printer on. The printer is now setup for wireless printing.

(**Note: If you would like to use the wireless card in Ad hoc mode, put dip switch number 4 on the interface card to the off position.)