

Software Manual



Applicable Models

- TSP100IIIU
- TSP100IIIBI
- TSP100IIILAN
- TSP100IIIW
- TSP100ECO
- TSP100GT
- TSP100LAN
- TSP100U/PUSB

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Getting Started

This software supports the following Windows operating systems.

- Windows 10 * 32-bit and 64-bit (except Windows 10 Mobile and Windows 10 IoT Core)
- Windows 8.1 * 32-bit and 64-bit (except WindowsRT 8.1)
- Windows 8 * 32-bit and 64-bit (except WindowsRT)
- · Windows 7 32-bit and 64-bit

* Limitation for Windows 10 / 8.1 / 8

- Star original Printer Driver Function (e.g. Logo Setting) can not be changed from "Modern UI". However, once the setting of its function is changed from "Desktop mode", these function can be used on "Modern UI" as well.
- · USB Printer will not be appeared in [Device and Printer] if its power is off.
- · Error status (e.g. Paper empty during printing) will not be shown in "Modern UI".

Precautions for Windows upgrade/update

- · Before starting the Windows upgrade or update, it is recommended to turn off your printer.
- If you are using the TSP100ECO which does not have a power switch, please unplug the power cable or the USB cable.

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TSP100 √ futurePRNT

1. Installation and Uninstallation

To use the TSP100 futurePRNT product in a Windows environment, you need to install this printer driver in advance.

Notes:

- 1) If the TSP100GT (version 1.0a or earlier) or TSP100LAN (version 1.1a or earlier) driver utility application is installed, uninstall it before starting operations.
- 2) It is recommended that the driver utility application is updated by a user having the administrative right and having used the old version for the smooth data migration.

To install the driver utility application, follow the procedure shown below.

1.1. Installing futurePRNT Software

Notes:

futurePRNT 7.0 Software installation requires computer administrator privileges. Execute steps (1) to (12) before connecting the TSP100 futurePRNT.

<< TSP100III Series >>

1) Click "futurePRNT V*.*` FULL CD" on the download site (<u>www.star-m.jp/tsp100iii-app.html</u>) to download the software.

📙 🗹 📙 🖵	Application Tools tsp100_v		-	- 🗆 X
File Home Share	View Manage			~ 🕐
← → × ↑ 📙 > Thi	sPC > Downloads > tsp100_v >	~ č	Search tsp100_v7	م 00
This PC	Name	Date modified	Туре	Size
Desktop	Documents	12/14/2015 5:42 PM	File folder	
Documents	Linux	12/14/2015 5:42 PM	File folder	
Downloads	Mac	12/14/2015 5:42 PM	File folder	
Music	TelnetScript	12/14/2015 5:42 PM	File folder	
-		12/14/2015 5:42 PM	File folder	
Pictures	Windows Patch	12/14/2015 5:43 PM	File folder	
📑 Videos	💸 Autorun.exe	12/14/2015 5:42 PM	Application	48 KB
🏪 EN (C:)	Autorun.ini	12/14/2015 5:42 PM	Setup Information	1 KB
🔜 CZ (l:)	📓 Autorun.ini	12/14/2015 5:42 PM	Configuration sett	1 KB
🛶 RU (J:)	📀 cdicon.ico	12/14/2015 5:43 PM	lcon	9 KB
BR (K:)	Readme_En.txt	12/14/2015 5:42 PM	Text Document	27 KB
FI (L:)	Readme_Jp.txt	12/14/2015 5:42 PM	Text Document	30 KB
	🗾 SoftwareLicenseAgreement.pdf	12/14/2015 5:42 PM	Adobe Acrobat D	78 KB
👝 Data (M:)	🗾 SoftwareLicenseAgreement_jp.pdf	12/14/2015 5:42 PM	Adobe Acrobat D	147 KB
Backup (N:)	🗾 SoftwareLicenseAgreementAppendix.pdf	12/14/2015 5:42 PM	Adobe Acrobat D	277 KB
🕳 KUBOTA2GB (O:)	🗾 SoftwareLicenseAgreementAppendix_Set	12/14/2015 5:42 PM	Adobe Acrobat D	258 KB
16 items 1 item selected	47.1 KB			

2) Extract the archive you downloaded and run "Autorun.exe".





<< Models supplied with CDs >>

- (1) Insert the CD-ROM supplied with the TSP100 futurePRNT into the CD-ROM drive of your computer.
- (2) When the following window appears, click "Run Autorun.exe".



In Windows 8/8.1/10: Toast pop up will be appeared after CD-ROM is set. After that, click [Run Autorun.exe].







(3) Then, the following window will appear.

Click "Installation" on the menu.

TSP100 ₅∡ futurePRNT		star
Installation	TSP100 X futurePRNT ECO USB LAN PUSB	
Documents/SDK	All Re	ceipts
Contact Star		digital receipt solution
Browse CD		
Star Cloud Services		
Exit	OPOS JAVAPOS Linux	Mac Universal
CD Ver.	SI	AR MICRONICS CO., LTD.

(4) Read this software license agreement carefully. If you agree to the terms of this license, click "I Accept".

TSP100 √ futurePRNT	star
Installation	Installation Agreement Please read the following license agreement carefully.
Documents/SDK Contact Star	Software License Agreement This Agreement made and entered into by and between you and Star Micronics Co., Ltd. (hereinafter referred to as "Star") stipulates the terms and conditions pertaining to the licensing of the software.
Browse CD	Please read this Software License Agreement ("Agreement") carefully before installing or using the software and accompanying data (hereinafter referred to as "the Software"). By installing the Software, you are agreeing to be bound by this
Star Cloud Services	Agreement. If you do not agree to the terms of this Agreement, you are not entitled to install the Software. References to "Software" in this Agreement include any accompanying
Exit CD Ver.	STAR MICRONICS CO., LTD.

(5) The "User Account Control" window will appear. Click "Yes".



TSP100 √ futurePRNT

(6) Click "Next" to continue.



(7) Choose the "Typical" installation option to be sure that all of the TSP100 futurePRNT's options are installed and then click "Next" to continue.







(8) Click "Install" to begin the installation process.



ME MO If the "Launch Star Cloud Services Web site" check box is checked (default), Star Cloud Services website will open after the installation wizard is finished.

(9) The files and programs are now being installed on the computer.





(10) At this point, all drivers and programs have been installed. Click "Finish" to close the wizard.



(11) Click "Exit" to close the following window.

	TSP100 y futurePRI	NT ECO USB	LAN PUSB GT	www.fut	urePRNT.co
Installation		No	w available	for FREE	E.
Documents/SDK	C		IRec	eipts	5
Contact Star			afe and reliable digit		
Browse CD					
Star Cloud Services		. max		,mini,	
Exit	OPOS	JAVAPOS*	Linux	Mac Universit	Corport for add

(12) The subsequent steps vary depending on the model you are using.

1.2 Adding a Printer (TSP100U/PU/GT/ECO/IIIU)
1.3 Adding a Printer (TSP100LAN)
1.4 Adding a Printer (TSP100IIIW)
1.5 Adding a Printer (TSP100IIILAN)
1.6 Adding a Printer (TSP100IIIBI)



TSP100 √ futurePRNT

1.2. Adding a Printer (TSP100U/PU/GT/ECO/IIIU)

(1) Load roll paper in the TSP100 futurePRNT, and connect to a computer.



(2) Turn the TSP100 futurePRNT on.

With "Plug and Play", the computer detects a new hardware product and automatically installs the printer driver.

Then, the following window will appear in the lower right of the Windows screen.



(3) In Control Panel, select "Devices and Printers".

If "Star TSP100" appears, installation is completed.







1.3. Adding a Printer (TSP100LAN)

Prior to installation, use an Ethernet cable to connect the printer and an access point that can connect to the same network the PC that will be used for configuration is on. For details, see the <u>Hardware manual</u>.

Notes: Printer addition requires computer's administrator privileges.

1.3.1. Printer LAN Settings

- (1) Turn the TSP100 futurePRNT on.
- (2) From the Windows Start menu, select "Programs / Apps / All apps" "StarMicronics" "LAN & Bluetooth Setup Tool".



- (3) "User Account Control" window will appear. Click "Yes".
- (4) If the "Windows Security Alert" screen is displayed, click [Allow access].

🔗 Windows Sect	urity Alert		×	
💮 Windo	ws Firewal	I has blocked some features of this app		
Windows Firewall h public and private r		e features of TSP 100 LAN and Bluetooth Setting Tool on all		
<u>N</u> ame: TSP100 LAN and Bluetooth Setting Tool				
7/44	Publisher:	Star Micronics Co., Ltd.		
	Pat <u>h</u> :	C:\program files\starmicronics\tsp100\software \20160301\tsp100lan_bt_setting.exe		
		etting Tool to communicate on these networks:		
Private netw	orks, such as m	y home or work network		
		ose in airports and coffee shops (not recommended en have little or no security)		
What are the risks	of allowing an a	pp through a firewall?		
		Allow access Cano	:el	

Notes: If you click [Cancel], you will not be able to search for the LAN printer.



TSP100 √ futurePRNT

(5) The TSP100 LAN / Bluetooth Setup Tool screen is displayed. If the printer you want to install is not listed in the LAN printer list, click [Discovery].

\sim	Discovery	
P Address/COM Port	MAC Address	Model Description
192.168.1.94	00-11-62-00-05-A1	TSP143IIILAN (STR_T-001)
192.168.1.255	00-11-62-04-B0-8D	TSP113 (STR_T-001)
192.168.1.26	00-1D-12-B7-19-F1	TSP143IIIW (STR_T-001)
192.168.1.65	00-1D-12-B9-32-84	TSP143IIIW (STR_T-001)
192.168.1.95	00-1D-12-B9-32-70	TSP143IIIW (STR_T-001)
192.168.1.17	00-1D-12-B9-32-A2	TSP143IIIW (STR_T-001)
COM6	00-11-62-00-06-19	TSP100-XXXXX
	Configuration	
	Printer Queue	

ME MO The factory network settings of the TSP100LAN printer are as follows.

IP address:	0.0.0.0 (Unassigned)
Subnet mask:	0.0.0.0 (Unassigned)
Default gateway:	0.0.0.0 (Unassigned)
Use DHCP:	ENABLE (Selected)

For environments where the DHCP server is not available:

If at least one of the following conditions applies, you will not be able to configure an IP address for any printers (with factory default settings) which have no IP address assigned.

- Using F/W V.2.0 or older

- Using CD Vol. 5.4 or older

Before starting operations, specify the IP address for the printer, referring to "<u>Chapter 6 Guideline</u> for Using Ethernet Environment".



TSP100 √ futurePRNT

(6) The TSP100 LAN printer on the network and the paired TSP100 Bluetooth printer are listed in the printer list. If multiple printers are listed, you can identify the desired printer by referring to the indicated MAC address.

If you wish to use the IP address assigned by the DHCP server, click the [Add printer queue] button. Then proceed to Section <u>1.3.2</u>, "Creating a Printer Queue", below.

If you wish to assign a fixed IP address for the printer, click [Configuration].

	Discovery		
	2.00010.9		
Address	MAC Address	Model Description	
192.168.1.124	00-11-62-00-05-A1	TSP143IIILAN (STR_T-00	
192 168 1 65	00-11-62-00-03-48	TSP143 (STR_T-001)	
192.168.1.98	00-11-62-00-03-4D	TSP143 (STR_T-001)	
192.100.1.45	00-11-02-00-03-30	TOF 143 (OTR_T-001)	
192.168.1.101	00-11-62-04-B0-8D	TSP113 (STR_T-001)	
192.168.1.52	00-1D-12-B7-19-E9	TSP143IIIW (STR_T-001)	
192.168.1.46	00-1D-12-B9-32-A2	TSP143IIIW (STR_T-001)	
192.168.1.31	00-1D-12-B9-32-9E	TSP143IIIW (STR_T-001)	
	Configuration		Go to <u>step 7</u>
	Printer Queue		Go to section 1.

ME MO

You can find the printer's MAC address by printing a self-test.

Hold the FEED button down as you turn the printer ON to run self-printing.



TSP100 √ futurePRNT

When the IP address cannot be obtained from the DHCP server :

When the DHCP server is not available, "Did not obtain" is displayed in the 'IP address' field for a printer that is not assigned to any IP address. To use such a printer, follow the steps below to specify the IP address.

1) Select a printer that is not assigned to any IP address, and then click [Configuration].

	Discovery	
P Address	MAC Address	Model Description
192.168.1.124	00-11-62-00-05-A1	TSP143IIILAN (STR_T-00
102 169 1 65	00 11 62 00 02 49	TSP142 (STP_T 001)
Did not obtain	00-11-62-00-03-4D	TSP143 (STR_T-001)
192.106.1.40	00-11-02-00-03-30	ISF 143 (STR_1-001)
192.168.1.101	00-11-62-04-B0-8D	TSP113 (STR_T-001)
192.168.1.52	00-1D-12-B7-19-E9	TSP143IIIW (STR_T-001)
192.168.1.46	00-1D-12-B9-32-A2	TSP143IIIW (STR_T-001)
192.168.1.31	00-1D-12-B9-32-9E	TSP143IIIW (STR_T-001)
	Configuration	
	D : 1 0	
	Printer Queue	

2) Enter a temporary IP address to assign, and then click [Apply].



3) The "Configuration" screen is displayed showing the entered temporary IP address in the IP address field. Continue setting up a fixed IP address.

ħ	Configuration	-	×
	Dynamic (DHCP)		
	IP Address	192.168.1.98	
	Subnet Mask	255.255.255.0	
	Default Gateway	192.168.1.1	





(7) Uncheck "Dynamic (DHCP)", enter the IP address, subnet mask, and default gateway, and then click [Apply].

– 🗆 X
192.168.1.98
255.255.255.0
192.168.1.1
Apply



Ask your network administrator about the static IP address and subnet mask to use in the settings.

- If you enable **"Multi Session"**, it will be possible for terminals to get status from the printer even when multiple terminals are connected simultaneously.
- If "Disconnect Message" is set to Enable, "NO HOST CONNECTION" will be printed when the printer has been disconnected. This function is available in firmware version 110.110.100 or later of the printer.
- If you click **Initialize**, all settings (including the password setting) return to their factory defaults.
- It is possible to set a fixed IP address from another segment. If you do so, however, the printer will no longer be locatable by the TSP100 LAN / Bluetooth Setup Tool's search.



TSP100 √ futurePRNT

(8) Click **[Yes]** on the screen asking to confirm application. The configuration is saved to the printer and printed out.

Confirm		×
?	Apply?	
C	Yes	<u>N</u> o

(9) A message is displayed indicating that the configuration was applied. Click **[OK]**, and then proceed to Section 1.3.2, "Creating a Printer Queue."



Note: After the printer reset, it may take a short time (perhaps 20 seconds) for the printer to be found again.

If the printer fails to reappear on the printer list after a noticeable amount of time has passed, retry the search by clicking again on the [Discovery] button.



TSP100 √ futurePRNT

1.3.2. Creating a Printer Queue

(1) Select the printer to create a printer queue from the printer list, and then click [Printer Queue].

	Discovery			
	Discovery			
IP Address	MAC Address	Model Description		
192.168.1.124	00-11-62-00-05-A1	TSP143IIILAN (STR_T-00		
102 169 1 65	00.11.62.00.02.49	T9P1//2 (9TP_T.001)		
192.168.1.98	00-11-62-00-03-4D	TSP143 (STR_T-001)		
192.106.1.40	00-11-02-00-03-50	10F143 (01K_1-001)		
192.168.1.101 00-11-62-04-B0-8D TSP113 (STR_T-001)				
192.168.1.52	00-1D-12-B7-19-E9	TSP143IIIW (STR_T-001)		
192.168.1.46	00-1D-12-B9-32-A2	TSP143IIIW (STR_T-001)		
192.168.1.31	00-1D-12-B9-32-9E	TSP143IIIW (STR_T-001)		
	Configuration			
	Printer Queue			

(2) The following dialog now appears. The dialog shows the queue name and port name for the printer you are setting up. You can leave the names as they are, or you can change them to anything you prefer. If you wish to use this printer as your default printer, check [Default Printer]. If you want to output a test print after completing the settings, check [Print Test Page]. After making appropriate settings, click [Apply].

🖶 Printer Queu	e —	>
Printer Queue	Star TSP143LAN Cutter	
Port Name	TSP100LAN_192.168.1.98	
Default Prin	iter	
Print Test F	Page	
Print Test F	'age	

MEMO The following characters can be used in queue and port names.

Queue name: Uppercase and lowercase letters, numerals (0 to 9), hyphens, underscores, periods, spaces, and parentheses.

Port name: U

Uppercase and lowercase letters, numerals (0 to 9), hyphens, underscores, and periods.



TSP100 √ futurePRNT

(3) Click **[Yes]** on the screen asking to confirm application. The printer queue is created. A message is displayed indicating that setup is complete. Click **[OK]**.

Confirm	\times	Complete X
Apply?		Printer queue setup is complete.
<u>Y</u> es <u>N</u> o		ОК

(4) In Control Panel, select "Devices and Printers".

If the Star TSP100LAN printer is found in the window, installation is completed.





TSP100 📈 futurePRNT

1.4. Adding a Printer (TSP100IIIW)

This manual describes how to connect the printer using WPS.

If you are using Windows 7, you can also connect over an Ad-Hoc network. For details, see the <u>Online</u> manual (Setup - Connect Tablet/PC).

Notes: Printer addition requires computer's administrator privileges.

1.4.1. Printer LAN Settings

- (1) Turn the TSP100 futurePRNT on.
- (2) Use WPS to connect the printer to the network.Set your wireless access point to wait for a WPS connection, and then hold down the PAIR button on the rear of the printer until the printer LED (blue) blinks.When the WPS connection is made, the printer LED (blue) stops blinking and stays lit.



For details on WPS connections, see the <u>TSP100IIIW Online manual (Setup -</u> <u>Connecting with a Tablet/PC)</u>.

(3) From the Windows Start menu, select "Programs / Apps / All apps" - "StarMicronics" - "LAN & Bluetooth Setup Tool".



(4) "User Account Control" window will appear. Click "Yes".





(5) If the "Windows Security Alert" screen is displayed, click [Allow access].



Notes: If you click [Cancel], you will not be able to search for the LAN printer.

(6) The TSP100 LAN / Bluetooth Setup Tool screen is displayed. If the printer you want to install is not listed in the LAN printer list, click [Discovery].

\sim	Discovery	
P Address/COM Port	MAC Address	Model Description
192.168.1.94	00-11-62-00-05-A1	TSP143IIILAN (STR_T-001)
192.168.1.255	00-11-62-04-B0-8D	TSP113 (STR_T-001)
192.168.1.26	00-1D-12-B7-19-F1	TSP143IIIW (STR_T-001)
192.168.1.65	00-1D-12-B9-32-84	TSP143IIIW (STR_T-001)
192.168.1.95	00-1D-12-B9-32-70	TSP143IIIW (STR_T-001)
192.168.1.17	00-1D-12-B9-32-A2	TSP143IIIW (STR_T-001)
COM6	00-11-62-00-06-19	TSP100-XXXXX
	Configuration	
	Printer Queue	

ME MO

The factory network settings of the TSP100IIIW printer are as follows.

Network Mode: Ad-Hoc *

IP address:	0.0.0.0 (Unassigned)
Subnet mask:	0.0.0.0 (Unassigned)
Default gateway:	0.0.0.0 (Unassigned)
Use DHCP:	ENABLE (Selected)

* The printer automatically enters the infrastructure mode when it connects over WPS.



TSP100 √ futurePRNT

(7) The TSP100 LAN printer on the network and the paired TSP100 Bluetooth printer are listed in the printer list. If multiple TSP100IIIW printers are listed, click [Check connection] to check whether you can communicate with the printer. The connected printer's LED (blue) will blink.

If you wish to use the IP address assigned by the DHCP server, then proceed to Section <u>1.4.2</u>, <u>"Creating a Printer Queue"</u>, below.

If you wish to assign a fixed IP address for the printer, click [Configuration].

¥.	TSP100LAN Ethernet	Setup Tool Ver	- 🗆	×
		Discovery		
	IP Address	MAC Address	Model Description	
	192.168.1.124	00-11-62-00-05-A1	TSP143IIILAN (STR_T-	00
	192.168.1.45	00-11-62-00-03-50	TSP143 (STR_T-001)	
	192.168.1.101	00-11-62-04-B0-8D	TSP113 (STR_T-001)	
	192.168.1.65	00-11-62-00-03-48	TSP143 (STR_T-001)	
	192.168.1.52	00-1D-12-B7-19-E9	TSP143IIIW (STR_T-00	
	192.168.1.99	00-1D-12-B9-32-71	TSP143IIIW (STR_T-00	· ·
	192.100.1.33	001012000271		
		Configuration		
		Printer Queue		
			0010000	
		Check Connection (Only T		
				/
				R
				2 12
				0

TSP100 √ futurePRNT

When the IP address cannot be obtained from the DHCP server :

When the DHCP server is not available, "Did not obtain" is displayed in the 'IP address' field for a printer that is not assigned to any IP address. To use such a printer, follow the steps below to specify the IP address.

1) Select a printer that is not assigned to any IP address, and then click [Configuration].

4l	TSP100LAN Ethernet	Setup Tool Ver		×
				_
		Discovery		
	IP Address	MAC Address	Model Description	
	192.168.1.124	00-11-62-00-05-A1	TSP143IIILAN (STR_T-00	
	192.168.1.45	00-11-62-00-03-50	TSP143 (STR_T-001)	
	192.168.1.101	00-11-62-04-B0-8D	TSP113 (STR_T-001)	
	192.168.1.65	00-11-62-00-03-48	TSP143 (STR_T-001)	
	192.168.1.52	00-1D-12-B7-19-E9	TSP143IIIW (STR_T-001)	
	102.100.1.01	00 1D 12 D0 02 0E	TOP1438W (OTR T 001)	_
	Did not obtain	00-1D-12-B9-32-71	TSP143IIIW (STR_T-001)	
				_
				_
		Configuration		
		Printer Queue		
		Check Connection (Only T	SP100III)	

2) Enter a temporary IP address to assign, and then click [Apply].



3) Connect to the printer using the temporarily assigned IP address. The Web Configuration screen is displayed. see step (8) and the subsequent steps to complete the setting of a fixed IP address.

Home	Home			
Display Status	Device Information	n		
> Device Status System Access	MAC Address :			
>Login	00:1D:12:B9:32:71			



TSP100 √ futurePRNT

(8) Open [Login] from the menu displayed on the left side of the setting screen, or the menu button displayed on the upper left, and login with:

Login name: root / password: [Changed password or the default password (public)].

Microsoft Edge	
Microsoft Edge	
The server 192.168.1.99 is asking for your user name and passw from TSP100III.	ord. The server reports that it is
Warning: Your user name and password will be sent using basi connection that isn't secure.	c authentication on a
8	
root	
·····	
	OK Cancel



The default login name and password are as follows: Login name: root Password: public

(9) The following message is displayed when you are using the default password. Select [OK] to change the password or [Cancel] to not change the password. If [OK] is selected, a screen to change the password will open. After changing the password, return to the following step.

This site says For security purpose, it is recor password to start using the pri	-
ОК	Cancel





(10) From the menu displayed on the left side of the setting screen or the menu button displayed on the upper left, open [IP Parameters], select "Static" and enter the IP Address, Subnet Mask, and tap [Submit].



ME MO Ask your network administrator about the static IP address and subnet mask to use in the settings.

(11) From the menu of the menu button on the upper left, open [Save], select "Save"→"Configuration Printing"→"Restart device", and tap [Execute]. The settings are saved to the printer and printed out.



- (12) The settings are saved to the printer and printed out. Then proceed to <u>Section 1.4.2</u>, "Creating a <u>Printer Queue."</u>
 - Note: After the printer reset, it may take a short time (perhaps 20 seconds) for the printer to be found again.

If the printer fails to reappear on the printer list after a noticeable amount of time has passed, retry the search by clicking again on the [Discovery] button.



TSP100 √ futurePRNT

1.4.2. Creating a Printer Queue

(1) Select the printer to create a printer queue from the printer list, and then click [Printer Queue].

Discovery		
IP Address	MAC Address	Model Description
192.168.1.124	00-11-62-00-05-A1	TSP143IIILAN (STR_T-00
192.168.1.45	00-11-62-00-03-50	TSP143 (STR_T-001)
192.168.1.101	00-11-62-04-B0-8D	TSP113 (STR_T-001)
192.168.1.65	00-11-62-00-03-48	TSP143 (STR_T-001)
192.168.1.52	00-1D-12-B7-19-E9	TSP143IIIW (STR_T-001)
102 169 1 21	00.1D.12.P0.22.0E	TSP142000 (STP_T-001)
192.168.1.99	00-1D-12-B9-32-71	TSP143IIIW (STR_T-001)
	Configuration	
	Printer Queue	

(2) The following dialog now appears. The dialog shows the queue name and port name for the printer you are setting up. You can leave the names as they are, or you can change them to anything you prefer. If you wish to use this printer as your default printer, check [Default Printer]. If you want to output a test print after completing the settings, check [Print Test Page]. After making appropriate settings, click [Apply].

🖳 Printer Queu	e —	>
Printer Queue	Star TSP143IIIW Cutter	
Port Name	TSP100LAN_192.168.1.99	
Default Prir	iter	
Print Test F	Page	
	Apply	

MEMO The following characters can be used in queue and port names.

Queue name: Uppercase and lowercase letters, numerals (0 to 9), hyphens, underscores, periods, spaces, and parentheses.

Port name: Uppercase and lowercase letters, numerals (0 to 9), hyphens, underscores, and periods.



TSP100 √ futurePRNT

(3) Click **[Yes]** on the screen asking to confirm application. The printer queue is created. A message is displayed indicating that setup is complete. Click **[OK]**.



(4) In Control Panel, select "Devices and Printers".If the Star TSP100IIIW printer is found in the window, installation is completed.

R Devices and Printers	- 0	×
$\leftarrow \hspace{0.1 cm} \rightarrow \hspace{0.1 cm} \checkmark \hspace{0.1 cm} \bigstar \hspace{0.1 cm} \begin{tabular}{c} \\ \hline \\ $	Search Devices and Printers	<i>م</i>
Add a device Add a printer		?
 > Devices (3) > Printers (4) 	Star TSP143IIIW Cutter	
7 items		





1.5. Adding a Printer (TSP100IIILAN)

Prior to installation, use an Ethernet cable to connect the printer and an access point that can connect to the same network the PC that will be used for configuration is on. For details, see the <u>Online hardware manual (Setup – Connect Tablet/PC)</u>.

Notes: Printer addition requires computer's administrator privileges.

1.5.1. Printer LAN Settings

- (1) Turn the TSP100 futurePRNT on.
- (2) From the Windows Start menu, select "Programs / Apps / All apps" "StarMicronics" "LAN & Bluetooth Setup Tool".



- (3) "User Account Control" window will appear. Click "Yes".
- (4) If the "Windows Security Alert" screen is displayed, click [Allow access].



Notes: If you click [Cancel], you will not be able to search for the LAN printer.



TSP100 √ futurePRNT

(5) The TSP100 LAN / Bluetooth Setup Tool screen is displayed. If the printer you want to install is not listed in the printer list, click [Discovery].

	Discovery	
IP Address	MAC Address	Model Description
192.168.1.124	00-11-62-00-05-A1	TSP143IIILAN (STR_T-00
192.168.1.126	00-11-62-00-05-AF	TSP143IIILAN (STR_T-00
192.168.1.45	00-11-62-00-03-50	TSP143 (STR_T-001)
192.168.1.51	00-11-62-00-03-6A	TSP143 (STR_T-001)
192.168.1.101	00-11-62-04-B0-8D	TSP113 (STR_T-001)
192.168.1.65	00-11-62-00-03-48	TSP143 (STR_T-001)
192.168.1.52	00-1D-12-B7-19-E9	TSP143IIIW (STR_T-001)
192.168.1.31	00-1D-12-B9-32-9E	TSP143IIIW (STR_T-001)
192.168.1.46	00-1D-12-B9-32-A2	TSP143IIIW (STR_T-001)
	Configuration	
	Printer Queue	

ME MO The factory network settings of the TSP100IIILAN printer are as follows.

IP address:	0.0.0.0 (Unassigned)
Subnet mask:	0.0.0.0 (Unassigned)
Default gateway:	0.0.0.0 (Unassigned)
Use DHCP:	ENABLE (Selected)



TSP100 √ futurePRNT

(6) The TSP100 LAN printer on the network and the paired TSP100 Bluetooth printer are listed in the printer list. If multiple TSP100IIILAN printers are listed, click [Check connection] to check whether you can communicate with the printer. The connected printer's LED (blue) will blink.

If you wish to use the IP address assigned by the DHCP server, then proceed to <u>Section 1.5.2</u>, <u>"Creating a Printer Queue"</u>, below.

If you wish to assign a fixed IP address for the printer, click [Configuration].

	Discovery		
P Address	MAC Address	Model Description	
102 169 1 124	00 11 62 00 05 41	TOP14200 AN (STP_T 00	
192.168.1.126	00-11-62-00-05-AF	TSP143IIILAN (STR_T-00	
192.108.1.45	00-11-02-00-03-50	ISP143 (STR_1-001)	
192.168.1.51	00-11-62-00-03-6A	TSP143 (STR_T-001)	
192.168.1.101	00-11-62-04-B0-8D	TSP113 (STR_T-001)	
192.168.1.65	00-11-62-00-03-48	TSP143 (STR_T-001)	
192.168.1.52	00-1D-12-B7-19-E9	TSP143IIIW (STR_T-001)	
192.168.1.31	00-1D-12-B9-32-9E	TSP143IIIW (STR_T-001)	
192.168.1.46	00-1D-12-B9-32-A2	TSP143IIIW (STR_T-001)	
	•••••••••••••••••		

TSP100 √ futurePRNT

When the IP address cannot be obtained from the DHCP server :

When the DHCP server is not available, "Did not obtain" is displayed in the 'IP address' field for a printer that is not assigned to any IP address. To use such a printer, follow the steps below to specify the IP address.

1) Select a printer that is not assigned to any IP address, and then click [Configuration].

Discovery			
Address	MAC Address	Model Description	
Did not obtain	00-11-62-00-05-AF	TSP143IIILAN (STR_T-00	
192.100.1.124	00-11-02-00-03-A1	TOF 14011LAN (OTR_1-00	
192.168.1.65	00-11-62-00-03-48	TSP143 (STR_T-001)	
192.168.1.45	00-11-62-00-03-50	TSP143 (STR_T-001)	
192.168.1.51	00-11-62-00-03-6A	TSP143 (STR_T-001)	
192.168.1.101	00-11-62-04-B0-8D	TSP113 (STR_T-001)	
192.168.1.52	00-1D-12-B7-19-E9	TSP143IIIW (STR_T-001)	
192.168.1.31	00-1D-12-B9-32-9E	TSP143IIIW (STR_T-001)	
192.168.1.46	00-1D-12-B9-32-A2	TSP143IIIW (STR_T-001)	
Configuration			

2) Enter a temporary IP address to assign, and then click [Apply].



3) Connect to the printer using the temporarily assigned IP address. The Web Configuration screen is displayed. see step (7) and the subsequent steps to complete the setting of a fixed IP address.

TSP100III Network Utility × $\leftarrow \rightarrow $ () 192	+ 2.168.1.126/html/top.htm		=	-		
	TSP100III Networ	_ / /	_	Þ	فه	
Home	Home					
 Home Display Status Device Status 	Device Information					
System Access	MAC Address : 00:11:62:00:05:AF					



TSP100 √ futurePRNT

(7) Open [Login] from the menu displayed on the left side of the setting screen, or the menu button displayed on the upper left, and login with:

Login name: root / password: [Changed password or the default password (public)].

Microsoft Edge	
Microsoft Edge	
The server 192.168.1.126 is asking for your user name and p is from TSP100III.	bassword. The server reports that it
Warning: Your user name and password will be sent using connection that isn't secure.	basic authentication on a
8	
root	
	•
	OK Cancel



The default login name and password are as follows: Login name: root Password: public

(8) The following message is displayed when you are using the default password. Select [OK] to change the password or [Cancel] to not change the password.
If [OK] is calculated a correct to change the password will open. After changing the password.

If **[OK]** is selected, a screen to change the password will open. After changing the password, return to the following step.

This site says For security purpose, it is recommended to change the			
For security purpose, it is recor password to start using the pri	2		
OK Cancel			



TSP100 √ futurePRNT

(9) From the menu displayed on the left side of the setting screen or the menu button displayed on the upper left, open [IP Parameters], select "Static" and enter the IP Address, Subnet Mask, and tap [Submit].

C	Home > Home Network Configuration > IP Parameters	IP Parameters
	 System Configuration Change Password Save Set Default Display Status 	IP Address 192.168.1.126 Subnet Mask 255.255.255.0
	 Device Status System Access Logout 	Default Gateway 192.168.1.1
	Manual Online Manual	Dynamic //Addresses are obtained from network. Submit Cancel

MEMO Ask your network administrator about the static IP address and subnet mask to use in the settings.

(10) From the menu of the menu button on the upper left, open [Save], select "Save" \rightarrow "Configuration Printing" \rightarrow "Restart device", and tap [Execute]. The settings are saved to the printer and printed out.

Home > Home	Save		
Network	\circledast Save \rightarrow Configuration printing \rightarrow Restart device		
Configuration IP Parameters	\bigcirc Save \rightarrow Restart device		
 System Configuration Change Password 	Execute Cancel		
> Save			

- (11) The settings are saved to the printer and printed out. Then proceed to <u>Section 1.5.2</u>, "Creating a <u>Printer Queue."</u>
 - Note: After the printer reset, it may take a short time (perhaps 20 seconds) for the printer to be found again.

If the printer fails to reappear on the printer list after a noticeable amount of time has passed, retry the search by clicking again on the [Discovery] button.



TSP100 📈 futurePRNT

1.5.2. Creating a Printer Queue

(1) Select the printer to create a printer queue from the printer list, and then click [Printer Queue].

Discovery						
IP Address	MAC Address	Model Description				
102 168 1 124	00-11-62-00-05-41	TSP1/3IIII AN (STR_T-00				
192.168.1.126	00-11-62-00-05-AF	TSP143IIILAN (STR_T-00				
192.108.1.45	00-11-02-00-03-30	TOP 143 (OTR_T-001)				
192.168.1.51	00-11-62-00-03-6A	TSP143 (STR_T-001)				
192.168.1.101	00-11-62-04-B0-8D	TSP113 (STR_T-001)				
192.168.1.65	00-11-62-00-03-48	TSP143 (STR_T-001)				
192.168.1.52	00-1D-12-B7-19-E9	TSP143IIIW (STR_T-001)				
192.168.1.31	00-1D-12-B9-32-9E	TSP143IIIW (STR_T-001)				
192.168.1.46	00-1D-12-B9-32-A2	TSP143IIIW (STR_T-001)				
	Configuration					
	Printer Queue					

(2) The following dialog now appears. The dialog shows the queue name and port name for the printer you are setting up. You can leave the names as they are, or you can change them to anything you prefer. If you wish to use this printer as your default printer, check [Default Printer]. If you want to output a test print after completing the settings, check [Print Test Page]. After making appropriate settings, click [Apply].

🖳 Printer Queue	· –	>
Printer Queue	Star TSP143IIILAN Cutter	
Port Name	TSP100LAN_192.168.1.126	
Default Print	er	
Print Test P	age	
	Apply	

MEMO The following characters can be used in queue and port names.

Queue name: Uppercase and lowercase letters, numerals (0 to 9), hyphens, underscores, periods, spaces, and parentheses.

Port name:

underscores, periods, spaces, and parentheses. Uppercase and lowercase letters, numerals (0 to 9), hyphens, underscores, and periods.


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(3) Click **[Yes]** on the screen asking to confirm application. The printer queue is created. A message is displayed indicating that setup is complete. Click **[OK]**.



(4) In Control Panel, select "Devices and Printers".

If the Star TSP100IIILAN printer is found in the window, installation is completed.





1.6. Adding a Printer (TSP100IIIBI)

The device name displayed during pairing varies depending on the product. It can be checked from the [Dev Name] that is printed when printer self-printing is performed (power is turned ON while depressing the FEED button).

Notes: Printer addition requires computer's administrator privileges.

1.6.1. Connecting a tablet or PC to the printer (pairing)

♦ Windows 10

- (1) Turn the TSP100 futurePRNT on.
- (2) Open [Settings], select [Devices] [Bluetooth].





TSP100 √ futurePRNT

- (3) Turn Bluetooth from Off to On.
- (4) Select the device name (TSP100-XXXXX) to be removed and tap or click "Pair". If the device name was changed, then select the device name that it was changed to.

← Settings	- D ×
🔅 DEVICES	Find a setting $ ho$
Printers & scanners	Manage Bluetooth devices
Connected devices	Bluetooth
Bluetooth	• Off
Mouse & touchpad	Related settings
	➡
← Settings	-
🔅 DEVICES	Find a setting $ ho$
Printers & scanners	Manage Bluetooth devices
Connected devices	Bluetooth
Bluetooth	On
Mouse & touchpad	Your PC is searching for and can be discovered by Bluetooth devices.
Typing	TSP100-XXXX
AutoPlay	Ready to pair
USB	Pair

(5) When connection is completed, "Connected" will be displayed.

\leftarrow	Settings	- 🗆 ×
ø	DEVICES	Find a setting
Printe	ers & scanners	Manage Bluetooth devices
Conn	ected devices	Bluetooth
Bluet	ooth	On On
Mous	e & touchpad	Your PC is searching for and can be discovered by Bluetooth devices.
Typin	g	TSP100-XXXXX
Autol	Play	Connected
USB		Related settings

MEMO

After a while, "Driver is unavailable" will be displayed, however pairing is completed. The device name created here cannot be used for the destination specified when printing from a Windows application. Proceed to perform <u>Section 1.6.2 "Creating a</u> <u>Printer Queue"</u>.





Windows 7 / 8 / 8.1

- (1) Turn the TSP100 futurePRNT on.
- (2) Start "Device and Printers" and tap or click "Add a device".



(3) Select the device name (TSP100-XXXXX) to be removed and tap or click "Next". If the device name was changed, then select the device name that it was changed to.



STAR MICRONICS CO., LTD.





(4) Pairing is then performed.

may take

(5) When pairing is completed, the name of device added will be displayed in "Devices and Printers".

*		Devices and	Printers			- 0	- ×
	a « Hardware and Sou	nd > Devices and Printer	s v	C	Search Devices	and Printers	Q
Add a device A	dd a printer Remo	ve device				-	۲
Devices (5)							
CSR8510 A10	Dell USB Entry Keyboard	PTFBAE-19	SATSUKI-PCE1		SB Optical Mouse		
Multimedia De	vices (1)						_
 Printers (3) 							
Fax	Microsoft XPS Document Writer	TSP100-XXXXX					
TSP1	00-XXXXX Model: Category: Status:	Bluetooth Peripheral Devi Printer Driver is unavailable	ice				

MEMO Depending on the display method, "Driver is unavailable" will be displayed, however pairing is completed.

The device name created here cannot be used for the destination specified when printing from a Windows application. Proceed to perform <u>Section 1.6.2 "Creating a</u> <u>Printer Queue"</u>.



TSP100 📈 futurePRNT

1.6.2. Creating a Printer Queue

(1) From the Windows Start menu, select "Programs / Apps / All apps" - "StarMicronics" - "LAN & Bluetooth Setup Tool".



- (2) "User Account Control" window will appear. Click "Yes".
- (3) If the "Windows Security Alert" screen is displayed, click [Allow access].

🔐 Windows Sec	I Windows Security Alert				
Windows Firewall has blocked some features of this app					
Windows Firewall h public and private r		e features of TSP100 LAN and Bluetooth Setting Tool on all			
all	Name:	TSP 100 LAN and Bluetooth Setting Tool			
1 MA	Publisher:	Star Micronics Co., Ltd.			
	Pat <u>h</u> :	C:\program files\starmicronics\tsp100\software \20160301\tsp100lan_bt_setting.exe			
Allow TSP 100 LAN	and Bluetooth S	etting Tool to communicate on these networks:			
Private networks, such as my home or work network					
Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)					
What are the risks of allowing an app through a firewall?					
Allow access Cancel					

Notes: If you click [Cancel], you will not be able to search for the LAN printer.

(4) The TSP100 LAN / Bluetooth Setup Tool screen is displayed.If the printer you want to install is not listed in the printer list, click [Discovery].

Contraction (1998)	Discovery	\rightarrow				
IP Address	MAC Address	Model Description				
192.168.1.124	00-11-62-00-05-A1	TSP143IIILAN (STR_T-00				
192.168.1.126	00-11-62-00-05-AF	TSP143IIILAN (STR_T-00				
192.168.1.45	00-11-62-00-03-50	TSP143 (STR_T-001)				
192.168.1.51	00-11-62-00-03-6A	TSP143 (STR_T-001)				
192.168.1.101	00-11-62-04-B0-8D	TSP113 (STR_T-001)				
192.168.1.65	00-11-62-00-03-48	TSP143 (STR_T-001)				
192.168.1.52	00-1D-12-B7-19-E9	TSP143IIIW (STR_T-001)				
192.168.1.31	00-1D-12-B9-32-9E	TSP143IIIW (STR_T-001)				
192.168.1.46	00-1D-12-B9-32-A2	TSP143IIIW (STR_T-001)				
Configuration						
	- Printer Queue					



If you are not using the standard Windows Bluetooth driver, the items "MAC Address" and "Model Description" will not be displayed.





(5) The TSP100 LAN printer on the network and the paired TSP100 Bluetooth printer are listed in the printer list.

If changing or confirming a printer's Bluetooth Settings, select a printer, and then click [Configuration].

	Discovery			
IP Address	MAC Address	Model Description		
192.168.1.124	00-11-62-00-05-A1	TSP143IIILAN (STR_T-00		
192.168.1.126 192.168.1.45	00-11-62-00-05-AF 00-11-62-00-03-50	TSP143IIILAN (STR_T-00 TSP143 (STR_T-001)		
192.168.1.45	00-11-62-00-03-50	TSP143 (STR_T-001)		
192.168.1.101	00-11-62-04-B0-8D	TSP113 (STR_1-001)	-	
192.168.1.65	00-11-62-00-03-48	TSP143 (STR T-001)		
192.168.1.52	00-1D-12-87-19-E9	TSP143IIIW (STR_T-001)	-	
192.168.1.31	00-1D-12-B9-32-9E	TSP143IIIW (STR_T-001)	-	
192,168,1,46	00-1D-12-B9-32-A2	TSP143IIIW (STR T-001)	-	
	Configuration Printer Queue			(Next Page)
	Check Connection (Only	TSP100III)		
k [Check con can commu	DOIIILAN printen nection] to che nicate with the er's LED (blue)	eck whether printer. The		

Notes:

ME MO

- For a Bluetooth printer, you can only create 1 printer queue per port (device).
- When enabling the "Always enabled" setting in TSP100 Configuration Utility, [Configuration] and [Check Connection] cannot be selected.



TSP100 √ futurePRNT

Changing the TSP100III Printer's Bluetooth Settings

1) When changing the configuration of the Bluetooth printer, click [Apply].

🜠 Bluetooth Configu	rat — 🗆 🗙				
Device Name	TSP100-XXXXX				
iOS Port Name	TSP100				
🗸 New Pairing Permi	issian				
Auto Connection					
Communication Di	agnosis LED				
	Apply				

Device Name

- The Bluetooth Device Name can use a combination of letters, characters and symbols.
- Supported characters are: "a" "z", "A" "Z", "0" "9", and Various symbols.
- A maximum of 16 characters can be used for the Bluetooth Device Name.

iOS Port Name

iOS port name is used in using iOS devices.

New Pairing Permission

If you clear the checkbox to disable "New Pairing Permission", you cannot connect from a device other than a paired tablet or PC. To improve security, we recommend disabling this item after configuring connection settings.

Auto Connection

This function is only for iOS devices. If you are not using iOS devices, please set this Auto Connection function "OFF".

Communication Diagnosis LED

The colors of the printer's LEDs will change according to the Bluetooth communication status. For details, see the Online hardware manual (Setup – Use App).

2) Click **[Yes]** on the screen asking to confirm application.

Confirm	×
Apply?	
Yes	<u>N</u> o



TSP100 √ futurePRNT

3) If "New Pairing Permission" is enabled, click [Yes] on the screen asking to confirm application.



ME MO

To prevent illegal connections from any tablets and PCs other than the one which you have connected and to improve security, it is recommended to change the "New Pairing Permission" setting to Off.

4) When configuration apply is complete, the following screen is displayed and the printer will reset.



If you have changed the device name, delete the old device name in "Devices and Printers", refer to "1.6.1 Connecting a tablet or PC to the printer (pairing)", and then pair the device with the printer again.

(6) The following dialog now appears. The dialog shows the queue name and port name for the printer you are setting up. You can leave the names as they are, or you can change them to anything you prefer. If you wish to use this printer as your default printer, check [Default Printer]. If you want to output a test print after completing the settings, check [Print Test Page]. After making appropriate settings, click [Apply].

🖳 Printer Queue	_	×
Printer Queue Port Name	Star TSP143IIIBI Cutter	
Default Print	er	
Print Test Pa	ge	
	Apply	



The following characters can be used in queue names. Uppercase and lowercase letters, numerals (0 to 9), hyphens, underscores, periods, spaces, and parentheses.



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(7) Click **[Yes]** on the screen asking to confirm application. The printer queue is created. A message is displayed indicating that setup is complete. Click **[OK]**.

Confirm	\times	Complete ×
? Apply?		Printer queue setup is complete. Do you want to start the TSP100 Configuration Utility?
Yes No		Yes No

(8) In Control Panel, select "Devices and Printers".

If the Star TSP100IIIBI printer is found in the window, installation is completed.





1.7. Uninstallation

- (1) Turn the printer off.
- (2) From the Windows Start menu, select "Program / All apps / Apps" → "StarMicronics" → "Uninstall TSP100".



- (3) In the User Account Control dialog box, click the "Yes".
- (4) When the following confirmation dialog box appears, click "Yes" to continue.





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(5) If the following window appears, select "Do not close applications" and click "OK".

TSP100 Setup Version 4.0.0	×
The following applications should be closed before continuing the install:	
Print Spooler	
Automatically close applications and attempt to restart them after setup is complete.	er
Do not close applications. (A Reboot may be required.)	
OK Cancel	

(6) If the following window appears, click "OK".



(7) The uninstaller launches to remove all of the TSP100 futurePRNT software form your computer.

TSP100 Setup Version 4.0.0
Please wait while Windows configures TSP100 Setup Version 4.0.0
Cancel



2. Features

2.1. Star Windows Printer Driver

The Star Windows Printer Driver is used to apply the futurePRNT series in Windows 10, 8.1, 8 or Windows 7. Using this printer driver allows you to handle basic printing functions in many Windows applications. It also allows you to configure graphic logo and peripheral unit (buzzers and cash drawers) settings.

This printer driver, which supports a diverse range of device fonts, enables you to generate and print barcodes and 2D codes of various standards or sizes using barcode fonts and 2D code fonts, and also control the printer using control fonts.

The following shows a driver setting example when a buzzer is used as an option.

Example of driver settings:

Peripheral Unit Type	Buzzer
Peripheral Unit 1	Document Bottom
Peripheral Unit 2	No Use
Buzzer 1: On Time	500 milliseconds
Buzzer 1: Off Time	2000 milliseconds
Buzzer 1: Repeat	5

Document printing finishes



2.2. OPOS Driver

OPOS(OLE for Retail POS) was created by industry leaders as a device standard for POS hardware. OPOS is a Win32-based architecture for POS device access. The benefits of this standard are realized in the ease of access to hardware in not only outputting data to devices, but also reading back the status of the device.

This OPOS driver can be used with any existing OPOS compliant application. Star also recommends use of the OPOS standard to any developer creating a Win32-based retail software application.

Star's OPOS driver offers full compliance with the OPOS standard version 1.13.



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2.3. JavaPOS Driver

JavaPOS (Java for Point of Sale Devices) is an architecture used to access Java-based POS peripheral units. It has a feature that enables operations in a platform-independent environment, taking advantage of the OPOS standard. Also, in a Java virtual computer, the minimum system requirements are lowered, thus reducing overall system costs as well.

This driver offers full compliance with the JavaPOS standard version 1.13.

The location of the JavaPOS driver installer is different for Windows 32-bit and 64-bit systems. Confirm your operating environment and then install the necessary package.

Installer Location for Windows 32-bit Environments:

Program Files\StarMicronics\TSP100\Software\20160301\JavaPOSExamples

Installer Location for Windows 64-bit Environments:

• 64-bit Java Operation Environment:

Program Files\StarMicronics\TSP100\Software\20160301\JavaPOSExamples

• 32-bit Java Operation Environment:

Program Files(x86)\StarMicronics\TSP100\Software\20160301\JavaPOSExamples

To use this driver under the JavaPOS application, you should set the Java runtime environment to Java Runtime Environment (JRE)1.5 or later.

To use this driver in Java Runtime Environment version 1.4.2, configure the following settings as a starting option to run the JavaPOS application.

-Dsmj.dllpath=<StarIOPort.dll and StarIOJ.dll absolute-path-of-storage-folder>

At normal installation, the DLL file above is stored in the following folder. Program Files\StarMicronics\TSP100\Software\20160301

Setting example:

Java–Dsmj.dllpath= "C:\Program Files\StarMicronics\TSP100\Software\20160301" application.class

2.4. Star Virtual Serial Port Emulator

This function allows you to use the TSP100U/PU/GT/ECO with the USB interface equipped or the TSP100LAN, TSP100IIIW and TSP100IIILAN with the Ethernet interface equipped using applications for a serial printer.

Notes: This function may not be available depending on applications.



2.5. ESC/POS Mode

The TSP100 futurePRNT provides ESC/POS mode emulation, which can be configured in "TSP100 Configuration Utility". Thus, even if your current software is designed for the ESC/POS mode, you will be able to use it as is, without making changes.

The functions (logo printing, journal, etc.) of the TSP100 futurePRNT remain usable even when you print in the ESC/POS mode.

For information about how to use the ESC/POS mode, refer to "<u>4.18 Print Job Routing (Write Printer)</u>".

2.6. Star Virtual TCP/IP Port Emulator

<TSP100LAN, TSP100IIIW and TSP100IIILAN only>

You can use the TSP100LAN Setup Utilities to set up virtual TCP/IP ports. This will enable you to continue using applications that directly designate their own TCP/IP sockets.



3. Windows Printer Driver Usage

3.1. Device Settings

Various functions of this driver can be configured in "Properties" menu of the printer. In case of using Windows 8.1 and 8, change the setting from "Desktop UI" in order to change settings.

First, follow the steps shown below to open the Properties window.

Notes:

Device settings require computer administrator privileges.

- (1) In Control Panel, select "Devices and Printers".
- (2) Right-click on the icon of the target printer queue. Then, in the pull-down menu, select "Printer Properties".
- (3) Click "Device Settings".

🖶 Star TSP100 Cutter (TSP143) Properties
General Sharing Porte Advanced Color Management Security Device Settings TSP100 Config
Star TSP100 Cutter (TSP143) Device Settings Form To Tray Assignment FRICTION: Letter Paper Type: Receipt Page Cut Type: No Cut Document Cut Type: Partial Cut Peripheral Unit Type: Buzzer Peripheral Unit 1: No Use Cash Drawer 1 - Pulse Width: 200 milliseconds Buzzer 1 - On Time: 20 milliseconds Buzzer 1 - Repeat: 1 Buzzer 2 - On Time: 20 milliseconds Buzzer 2 - Repeat: 1
OK Cancel Apply





Paper Type

You can choose the length of each printed page.

Value	Default	Details	
Receipt	*	Pages have variable length (printed to last line).	
Ticket		All printed pages have same length.	

Page Cut Type (Cutter Model only)

You can choose the cut type that is performed at the end of all intermediate pages (all pages up to the last page).

Value	Default	Details
No Cut	*	No intermediate pages are fed to the cutter.
Partial Cut		All intermediate pages are fed to the cutter and are partially cut.
Partial Cut (No Feed)		All intermediate pages are partially cut without being fed.

Document Cut Type

You can choose the Cut action for the final page.

< Cutter Model >

Value	Default	Details
No Cut		The final page is not fed to the cutter.
Partial Cut	*	The final page is fed to the cutter and partially cut.
Partial Cut (No Feed)		All intermediate pages are partially cut without being fed.

< Tear Bar Model >

Value	Default	Details	
No Cut		The final page is not fed to the tear bar.	
Tear Bar	*	The final page is fed to the tear bar.	





Peripheral Unit Type

Use this setting to select the type of peripheral to be used with the printer.

Value	Default	Details
Buzzer	*	Use buzzers as peripheral device.
Cash Drawer		Use buzzers as peripheral device.

Caution:

When using a peripheral unit such as a cash drawer other than a buzzer, do not select "Buzzer".

If selected, it may result in damage to a peripheral unit.

Notes:

The buzzer and cash drawer are optional devices. They cannot be used at the same time.

Peripheral Unit 1

This setting selects the action timing for peripheral unit 1.

Note that the **Page Top** and **Page Bottom** selections are not available if you have set the Peripheral Unit Type to **Cash Drawer**.

Value	Default	Details
No Use	*	Peripheral unit 1 not used.
Document Top		Activate at top of document.
Page Top		Activate at top of page.
Page Bottom		Activate at bottom of page.
Document Bottom		Activate at bottom of document.

Peripheral Unit 2

This setting selects the action timing for peripheral unit 2.

Note that the **Page Top** and **Page Bottom** selections are not available if you have set the Peripheral Unit Type to **Cash Drawer**.

Value	Default	Details
No Use	*	Peripheral unit 2 not used.
Document Top		Activate at top of document.
Page Top		Activate at top of page.
Page Bottom		Activate at bottom of page.
Document Bottom		Activate at bottom of document.





Cash Drawer 1 Pulse Width

You can choose the length of the open drawer signal that is sent from the printer to Cash Drawer 1.

Value	Default	Details
10 milliseconds		Pulse width is set as 0.01 sec.
100 milliseconds		Pulse width is set as 0.1 sec.
200 milliseconds	*	Pulse width is set as 0.2 sec.
300 milliseconds		Pulse width is set as 0.3 sec.
400 milliseconds		Pulse width is set as 0.4 sec.
500 milliseconds		Pulse width is set as 0.5 sec.
600 milliseconds		Pulse width is set as 0.6 sec.
700 milliseconds		Pulse width is set as 0.7 sec.
800 milliseconds		Pulse width is set as 0.8 sec.
900 milliseconds		Pulse width is set as 0.9 sec.
1,000 milliseconds		Pulse width is set as 1.0 sec.
1,100 milliseconds		Pulse width is set as 1.1 sec.
1,200 milliseconds		Pulse width is set as 1.2 sec.

Buzzer1 - On Time

If the Peripheral Unit Type is set to **Buzzer**, this setting selects the beep ON time for the buzzer operating as peripheral unit 1.

Value	Default	Details
20 milliseconds	*	Sound on for 0.02 sec.
40 milliseconds		Sound on for 0.04 sec.
100 milliseconds		Sound on for 0.1 sec.
200 milliseconds		Sound on for 0.2 sec.
500 milliseconds		Sound on for 0.5 sec.
1,000 milliseconds		Sound on for 1.0 sec.
2,000 milliseconds		Sound on for 2.0 sec.
5,000 milliseconds		Sound on for 5.0 sec.





Buzzer1 - Off Time

If the Peripheral Unit Type is set to **Buzzer**, this setting selects the beep OFF time for the buzzer operating as peripheral unit 1.

Value	Default	Details
20 milliseconds	*	Silent on for 0.02 sec.
40 milliseconds		Silent on for 0.04 sec.
100 milliseconds		Silent on for 0.1 sec.
200 milliseconds		Silent on for 0.2 sec.
500 milliseconds		Silent on for 0.5 sec.
1,000 milliseconds		Silent on for 1.0 sec.
2,000 milliseconds		Silent on for 2.0 sec.
5,000 milliseconds		Silent on for 5.0 sec.

Buzzer1 - Repeat

If the Peripheral Unit Type is set to **Buzzer**, this setting selects the number of beeps produced by buzzer #1 when it is activated. (Each beep will sound for the specified ON time, followed by silence for the specified OFF time). Note that you can force the buzzer off at any time by pressing the FEED button.

Value	Default	Details
1	*	1 beep
2		2 beep
3		3 beep
5		5 beep
10		10 beep
15		15 beep
20		20 beep





Buzzer2 - On Time

If the Peripheral Unit Type is set to **Buzzer**, this setting selects the beep ON time for the buzzer operating as peripheral unit 2.

Value	Default	Details
20 milliseconds	*	Sound on for 0.02 sec.
40 milliseconds		Sound on for 0.04 sec.
100 milliseconds		Sound on for 0.1 sec.
200 milliseconds		Sound on for 0.2 sec.
500 milliseconds		Sound on for 0.5 sec.
1,000 milliseconds		Sound on for 1.0 sec.
2,000 milliseconds		Sound on for 2.0 sec.
5,000 milliseconds		Sound on for 5.0 sec.

Buzzer2 - Off Time

If the Peripheral Unit Type is set to **Buzzer**, this setting selects the beep OFF time for the buzzer operating as peripheral unit 2.

Value	Default	Details
20 milliseconds	*	Silent for 0.02 sec.
40 milliseconds		Silent for 0.04 sec.
100 milliseconds		Silent for 0.1 sec.
200 milliseconds		Silent for 0.2 sec.
500 milliseconds		Silent for 0.5 sec.
1,000 milliseconds		Silent for 1.0 sec.
2,000 milliseconds		Silent for 2.0 sec.
5,000 milliseconds		Silent for 5.0 sec.





Buzzer2 - Repeat

If the Peripheral Unit Type is set to **Buzzer**, this setting selects the number of beeps produced by buzzer #2 when it is activated. (Each beep will sound for the specified ON time, followed by silence for the specified OFF time). Note that you can force the buzzer off at any time by pressing the **[FEED]** button.

Value	Default	Details
1	*	1 beep
2		2 beeps
3		3 beeps
5		5 beeps
10		10 beeps
15		15 beeps
20		20 beeps



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3.2. Paper Size Settings

This driver allows you to use both the predefined and user-defined paper sizes. Each paper size is defined by "width" and "length", enabling printing of all the area in the defined range. Margin setting is not required in a document.

To print on a variable-length sheet such as a receipt, select the paper size that includes "Receipt" in the paper size name, and set "Paper Type" to "Receipt".

When configuring paper size settings, note that those of a print application have priority over paper size.er the user's settings.

If a print application does not provide any paper size setting item, configure the following setting.

- (1) In Control Panel, select "Devices and Printers".
- (2) Right-click on the icon of the target printer queue, and select "Printing preferences" in the pull-down menu.
- (3) Click "Advanced" in the "Layout" tab to open the detailed option, and select the paper size.

Star TSP143IIILAN Cutter Properties
General Sharing Ports Advanced Color Management Security Device Settings TSP100 Config
Star TSP143IILAN Cutter Device Settings FRICTION: 72mm x Receipt Paper Type: 51mm x 200mm Page Cut Ty 51mm x Receipt Document (72mm x Receipt Peripheral U Star Thermal 3inch x Letter Peripheral U Star Thermal 30mm x A4 Cash Drawer 1 - Putse Width: 200 milliseconds Buzzer 1 - On Time: 20 milliseconds Buzzer 2 - On Time: 20 milliseconds Buzzer 2 - Off Time: 20 milliseconds Buzzer 2 - Repeat: 1 Buzzer 2 - Repeat: 1
OK Cancel Apply



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3.2.1. Standard Paper Sizes

The following table is the list of the paper sizes supported by this printer driver.

Built-in paper sizes	Width	Length
51 mm x 200 mm	51 mm	200 mm
51 mm x Receipt	51 mm	3,000 mm
72 mm x 200 mm	72 mm	200 mm
72 mm x Receipt	72 mm	3,000 mm
Star Thermal 3inch x Letter	8.5 inch (Printable area is 72 mm)	11 inch
Star Thermal 80mm x A4	210 mm (Printable area is 72 mm)	297 mm



The paper width is set as printable area.

For example, if you use 80 mm width roll paper, set paper size to 72 mm.



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3.2.2. User-Defined Paper Size

Follow the steps below to specify a user-defined paper size using a Windows standard function.

- (1) In Control Panel, select "Devices and Printers".
- (2) Select a target printer, and click "Print Server Properties".
- (3) Click the "Forms" tab.
- (4) Check the "Create a new form" checkbox.
- (5) Change the name currently displayed in the 'Form name' field, and specify a new name.
- (6) Select the units of measurements (either Metric or English) in the 'Form description' field. Then, enter the desired value in "Width" and "Height" under Paper size.
- (7) Click "Save Form". Click "OK" to close the window.



Notes:

The allowable paper sizes are as follows.

A user-defined paper size must be created in the range shown below. Paper width: 25.4 to 72mm Paper length: 25.4 to 3,276mm



3.3. Device Font Usage

This driver supports various device fonts.

Printer fonts provide some font sizes, enabling clearer printing than for the TrueType font. Using barcode and 2D code fonts allow you to generate and print barcodes and 2D codes of various standards and sizes you entered. Using a control font also allows you to embed a character-base command into a print job, enabling a printer control.

The table below shows a list of device fonts supported by this printer driver.

To use a device font, specify the correct font and font size (point) at formatting of your application. In Microsoft Word or Excel, specify height "24 pixels = 8.5 points".

Device Font Name	Width (Pixels)	Height (Pixels)	Number of digits, 72 mm (576 dots)	Details
Printer 7cpi	30	24	19	Printer font (ANK font A)
Printer 7cpi Tall	30	48	19	
Printer 8cpi	26	24	22	
Printer 8cpi Tail	26	48	22	
Printer 8.5cpi	24	24	24	
Printer 8.5cpi Tail	24	48	24	
Printer 14cpi	15	24	38	
Printer 14cpi Tail	15	48	38	
Printer 16cpi	13	24	44	
Printer 16cpi Tail	13	48	44	
Printer 17cpi	12	24	48	
Printer 17cpi Tail	12	48	48	
Printer 7cpi (RED)	30	24	19	
Printer 7cpi Tail (RED)	30	48	19	
Printer 8cpi (RED)	26	24	22	
Printer 8cpi Tail (RED)	26	48	22	
Printer 8.5cpi (RED)	24	24	24	
Printer 8.5cpi Tail (RED)	24	48	24	
Printer 14cpi (RED)	15	24	38	
Printer 14cpi Tail (RED)	15	48	38	
Printer 16cpi (RED)	13	24	44	
Printer 16cpi Tail (RED)	13	48	44	
Printer 17cpi (RED)	12	24	48	
Printer 17cpi Tail (RED)	12	48	48	



Device Font Name	Width (Pixels)	Height (Pixels)	Number of digits, 72 mm (576 dots)	Details
Printer Front B 8.5cpi	24	24	24	Printer font (ANK font B)
Printer Front B 8.5cpi Tall	24	48	24	
Printer Front B 10cpi	20	24	28	
Printer Front B 10cpi Tall	20	48	28	
Printer Front B 11cpi	18	24	32	
Printer Front B 11cpi Tall	18	48	32	
Printer Front B 17cpi	12	24	48	
Printer Front B 17cpi Tall	12	48	48	
Printer Front B 20cpi	10	24	57	
Printer Front B 20cpi Tall	10	48	57	
Printer Front B 22.5cpi	9	24	64	
Printer Front B 22.5cpi Tall	9	48	64	
Printer Front B 8.5cpi (RED)	24	24	24	
Printer Front B 8.5cpi Tall (RED)	24	48	24	
Printer Front B 10cpi (RED)	20	24	28	
Printer Front B 10cpi Tall (RED)	20	48	28	
Printer Front B 11cpi (RED)	18	24	32	
Printer Front B 11cpi Tall (RED)	18	48	32	
Printer Front B 17cpi (RED)	12	24	48	
Printer Front B 17cpi Tall (RED)	12	48	48	
Printer Front B 20cpi (RED)	10	24	57	
Printer Front B 20cpi Tall (RED)	10	48	57	
Printer Front B 22.5cpi (RED)	9	24	64	
Printer Front B 22.5cpi Tall (RED)	9	48	64	



Device Font Name	Width (Pixels)	Height (Pixels)	Digit number 72 mm (576 dots)	Details
Control	12	24	48	Device control font
ESC_FONT	1	24	576	Device control font
UPC-E	12	24	48	
UPC-A	12	24	48	
JAN/EAN-8	12	24	48	
JAN/EAN-13	12	24	48	Barcode device font
CODE39	12	24	48	
ITF	12	24	48	
NW-7 (Codaber)	12	24	48	
QR_CNTL	1	24	576	
PDF417	1	24	576	
DATA1	1	24	576	2D code font
DATA2	1	24	576	
DATA3	1	24	576	





3.4. Control Font Usage

The Control device font is used to provide for control within the span of a single document. This font is not used for character printing.

3.4.1. Control Font list

The following table is the list of the supported control device fonts.

Character	Function		
А	Open cash drawer 1 for 50 mSec.		
В	Open cash drawer 1 for 100 mSec.		
С	Open cash drawer 1 for 150 mSec.		
D	Open cash drawer 1 for 200 mSec.		
Е	Open cash drawer 1 for 250 mSec.		
d	Open cash drawer 2 for 200 mSec.		
6	LF		
7	CR		
F	Full Cut		
Р	Partial Cut		
a	Set Left Alignment		
b	Set Center Alignment		
с	Set Right Alignment		
e	Set 3mm line feed spacing (1/8 inch)		
f	Set 4mm line feed spacing (1/6 inch)		
g	Select USA international character set		
h	Select France international character set		
i	Select Germany international character set		
j	Select England international character set		
k	Select Denmark I international character set		
1	Select Sweden international character set		
m	Select Italy international character set		
n	Select Spain I international character set		
0	Select Japan international character set		
р	Select Norway international character set		





Character	Function
q	Select Denmark II international character set
r	Select Spain II international character set
S	Select Latin America international character set
t	Select turn over printing
u	Cancel turn over printing
V	Select the customer display
W	Deselect the customer display
X	Clear the customer display

Notes:

The settings above will be ignored if a specified control character is not supported by the printer.



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3.4.2. Control Font Usage

Usage of the Control font must be done as follows:

- Select Control Font



- Input Control Font



ME MO

Please set the control font's character size to the standard value (8.5 points).



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3.5. Barcode Font

After printing Barcode, small characters are printed under barcode. But the barcode image data is not displayed.

This action is only available when Print mode option is set to Line mode. On Raster Mode, this setting is not available.

3.5.1. Barcode Font List

The following table is the lists of the supported barcode device fonts and usable characters.

Barcode Type	Number of Characters	Character Set
UPC-E	12	0 - 9
UPC-A	12	0 - 9
JAN/EAN-8	8	0 - 9
JAN/EAN-13	13	0 - 9
CODE39	1 or more	0 - 9
		-, ., <sp>, \$, /, +, %</sp>
		A - Z
		Start / Stop: *
ITF	1 or more (even)	0 - 9
NW-7 (Codabar)	1 or more	0 - 9
		-, \$, :, /, ., +
		A - D

* It is unnecessary to input Start and stop code since they are entered automatically.

3.5.2. Enter the Barcode font

Enter the barcode font character 'z' to terminate the barcode.

Example:



Each parameter refers to the list of Barcode font parameter on the next page.



Barcode Device Font Parameter

Character	Function				
for Barcode printing	UPC-E, UPC-A, JAN/EAN-8, JAN/EAN-13	CODE39 NW-7	ITF	Details	
а	2 dot	2 dot (6)	2 dot (5)	Minimum module width	
b	3 dot	3 dot (9)	4 dot (10)	Minimum module width	
с	4 dot	4 dot (12)	6 dot (15)	Minimum module width	
d	N/A	2 dot (5)	2 dot (4)	Minimum module width	
e	N/A	3 dot (8)	4 dot (8)	Minimum module width	
f	N/A	4 dot (10)	6 dot (12)	Minimum module width	
g	N/A	2 dot (4)	2 dot (6)	Minimum module width	
h	N/A	3 dot (6)	3 dot (9)	Minimum module width	
i	N/A	4 dot (8)	4 dot (12)	Minimum module width	
0	heght: 32 dot (4 mm)				
р	heght: 64 dot (8 mm)				
q	heght: 96 dot (12 n	nm)			
r	heght: 128 dot (16				
s	heght: 160 dot (20	mm)			
t	heght: 192 dot (24 mm)				
u	heght: 224 dot (28	mm)			
v	heght: 255 dot (31.9 mm)				
Z	Terminate Code (1				
	Terminate Code (1				

N/A = Not available

() numeral is dots for wide width.



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3.5.3. Barcode Font Usage

Usage of the Barcode device font must be done as follows:

- Select Barcode Font







- Input Barcode font

Document1 - Microsoft Word					
Home Insert Page Lavout References Mailings CODE39 V 8.5 V S S S S S S S S S S S S S S S S S S					
Page: 1 of 1 Words: 1	* * * * *				

<Print result sample>



MEMO

Please set the barcode device font's character size to the standard value (8.5 points).



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3.6.2D Code Printing Function (2D Code Fonts)

The 2D code printing function performs QR code or PDF417 printing using device fonts supported in this driver.

QR code or PDF417 printing is realized with a combination of 2D code fonts ("QR_CNTL", "PDF417", "DATA1", "DATA2", and "DATA3") and control fonts ("ESC_FONT" and "ESC_FONT_KANJI").

Device Font Name	Function	Details	Memo	
QR_CNTL	Setting QR commands	Output commands for QR printing.		
PDF417	Setting PDF417 commands	Output commands for PDF417 printing.		
DATA1		x20 - x7F replace $x00 - x5F$	Output \x00 -\xFF is possible.	
DATA2	Satting	x20 - x7F replace $x60 - xBF$		
DATA3	Setting 2D code data	x20 - x5F replace $xC0 - xFF$		
ESC_FONT		Output $x20 - x7F$	Output $x20 - x7F$ is possible.	

Each Font Function as follows;

3.6.1. Entering a 2D Code Font (QR Code)

Follow the steps below to describe a QR code.

(1) 2D code type setting

Only describe the parameters to be changed because the default value is set to each setting item.

(2) 2D code data setting

Describe parameters and 2D code data following a 2D code data setting command.

(3) Obtaining 2D code expansion information (Option)

An error notification will be returned if any inconsistencies are detected in the settings made in steps (1) and (2).

(4) 2D code printing

For information about commands, refer to the separate manual, "STAR Line Mode Command Specifications".

Example: When generating a 2D code of "012345ABCD " with a QR code (correction rate: 25%):




Description data: E2A0* 012345ABCDP

Description character	Setting font	Meaning
(1) 'E2'	QR_CNTL	Sets to correct errors level Q (25%).
(2) 'AO'	QR_CNTL	QR Code data setting (Automatic data analysis)
(2) '*'	DATA1	QR Code data setting parameter $A = \underset{x0A = `*' * 1}{}$
(2) ''	DATA1	QR Code data setting parameter $0 = \frac{1}{2} \times x00 = $ ' (Space character) *1
(2) '012345ABCD'	ESC_FONT	2D code data
(4) 'P'	QR_CNTL	QR code printing

*1 Describe "0A", which indicates the number of bytes (10 bytes) of 2D code data in hexadecimal notation, in the low-order byte (A) and high-order byte (0) respectively.

Printing result:



3.6.2. 2D Code Command Setting Font

QR code setting fonts (QR_CNTL)

QR_CNTL Fonts	Function	Output Code
0	Use for Parameter	\x00
1	Use for Parameter	\x01
2	Use for Parameter	\x02
3	Use for Parameter	\x03
4	Use for Parameter	\x04
5	Use for Parameter	\x05
6	Use for Parameter	\x06
7	Use for Parameter	\x07
8	Use for Parameter	\x08
9	Use for Parameter	\x09
М	Set model of QR code	x1bx1dyS0



QR_CNTL Fonts	Function	Output Code
M1	Set model of QR code: Model 1	\x1b\x1dyS0\x01
M2	Set model of QR code: Model 2	x1bx1dyS0x02
Е	Set up correct errors level	\x1b\x1dyS1
* El (E0)	Correct errors level L (correction rate: 7%)	x1bx1dyS1x00
* Em (E1)	Correct errors level M (correction rate: 15%)	\x1b\x1dyS1\x01
* Eq (E2)	Correct errors level Q (correction rate: 25%)	x1bx1dyS1x02
* Eh (E3)	Correct errors level H (correction rate: 30%)	x1bx1dyS1x03
S1~S8	Set module size (unit: dot)	x1bx1dyS2 (x01~08)
A0	QR code data setting (automatic data analysis)	\x1b\x1dyD1\x00
В	QR code data setting (manual data analysis)	\x1b\x1dyD2
Р	Print QR code data	\x1b\x1dyP

*) The correct errors level can also be set using the correction rate enclosed by parentheses ().

PDF417 setting fonts (PDF417)

Character	Function	Driver-output code
0	Used for parameter of each PDF417 setting command	\x00
1	Used for parameter of each PDF417 setting command	\x01
2	Used for parameter of each PDF417 setting command	\x02
3	Used for parameter of each PDF417 setting command	\x03
4	Used for parameter of each PDF417 setting command	\x04
5	Used for parameter of each PDF417 setting command	\x05
6	Used for parameter of each PDF417 setting	\x06





Character	Function	Driver-output code
	command	
7	Used for parameter of each PDF417 setting command	\x07
8	Used for parameter of each PDF417 setting command	\x08
9	Used for parameter of each PDF417 setting command	\x09
S	Specifies the PDF417 code size.	\x1b\x1dxS0
Е	Specifies the PDF417 security level (ECC).	\x1b\x1dxS1
М	Specifies the X-direction size of the PDF417 module.	\x1b\x1dxS2
А	Specifies the aspect ratio of the PDF417 module.	\x1b\x1dxS1
D	Specifies PDF417 code data.	\x1b\x1dxS3
Р	Prints a PDF417 code.	\x1b\x1dxP
Ι	Obtains PDF417 code expansion information.	\x1b\x1dx1



3.6.3. 2D Code Data Setting Font (DATA1, DATA2, DATA3, ESC_FONT)

Input	Input Data		Output Data			
On applications (Word, VB, etc), user specified characters		Output code for printer				
Character	Code	ESC_FONT	DATA1	DATA2	DATA3	
<sp></sp>	\x20	\x20	\x00	\x60	\xC0	
!	\x21	\x21	\x01	\x61	\xC1	
"	\x22	\x22	\x02	\x62	\xC2	
#	\x23	\x23	\x03	\x63	\xC3	
\$	\x24	\x24	\x04	\x64	\xC4	
%	\x25	\x25	\x05	\x65	\xC5	
&	\x26	\x26	\x06	\x66	\xC6	
,	\x27	\x27	\x07	\x67	\xC7	
(\x28	\x28	\x08	\x68	\xC8	
)	\x29	\x29	\x09	\x69	\xC9	
*	\x2A	\x2A	\x0A	\x6A	\xCA	
+	\x2B	\x2B	\x0B	\x6B	\xCB	
,	\x2C	\x2C	\x0C	\x6C	\xCC	
-	\x2D	\x2D	\x0D	\x6D	\xCD	
	\x2E	\x2E	\x0E	\x6E	\xCE	
/	\x2F	\x2F	\x0F	\x6F	\xCF	
0	\x30	\x30	\x10	\x70	\xD0	
1	\x31	\x31	\x11	\x71	\xD1	
2	\x32	\x32	\x12	\x72	\xD2	
3	\x33	\x33	\x13	\x73	\xD3	
4	\x34	\x34	\x14	\x74	\xD4	
5	\x35	\x35	\x15	\x75	\xD5	
6	\x36	\x36	\x16	\x76	\xD6	
7	\x37	\x37	\x17	\x77	\xD7	
8	\x38	\x38	\x18	\x78	\xD8	
9	\x39	\x39	\x19	\x79	\xD9	
:	\x3A	\x3A	\x1A	\x7A	\xDA	
;	\x3B	\x3B	\x1B	\x7B	\xDB	
<	\x3C	\x3C	\x1C	\x7C	\xDC	
=	\x3D	\x3D	\x1D	\x7D	\xDD	
>	\x3E	\x3E	\x1E	\x7E	\xDE	
?	\x3F	\x3F	\x1F	\x7F	\xDF	
@	\x40	\x40	\x20	\x80	\xE0	
А	\x41	\x41	\x21	\x81	\xE1	
В	\x42	\x42	\x22	\x82	\xE2	
С	\x43	\x43	\x23	\x83	\xE3	
D	\x44	\x44	\x24	\x84	\xE4	
Е	\x45	\x45	\x25	\x85	\xE5	





Input Data		Output Data			
On applications (user specified			Output code	e for printer	
Character	Code	ESC_FONT	DATA1	DATA2	DATA3
F	\x46	\x46	\x26	\x86	\xE6
G	\x47	\x47	\x27	\x87	\xE7
Н	\x48	\x48	\x28	\x88	\xE8
Ι	\x49	\x49	\x29	\x89	\xE9
J	\x4A	\x4A	\x2A	\x8A	∖xEA
K	\x4B	\x4B	\x2B	\x8B	\xEB
L	\x4C	\x4C	\x2C	\x8C	\xEC
М	\x4D	\x4D	\x2D	\x8D	\xED
Ν	\x4E	\x4E	\x2E	\x8E	\xEE
0	x4F	\x4F	\x2F	\x8F	\xEF
Р	\x50	\x50	\x30	\x90	\xF0
Q	\x51	\x51	\x31	\x91	\xF1
R	\x52	\x52	\x32	\x92	\xF2
S	\x53	\x53	\x33	\x93	\xF3
Т	x54	\x54	\x34	\x94	\xF4
U	\x55	\x55	\x35	\x95	\xF5
V	\x56	\x56	\x36	\x96	\xF6
W	\x57	\x57	\x37	\x97	\xF7
Х	\x58	\x58	\x38	\x98	\xF8
Y	\x59	\x59	\x39	\x99	\xF9
Z	\x5A	\x5A	\x3A	\x9A	∖xFA
[\x5B	\x5B	\x3B	\x9B	\xFB
\	\x5C	\x5C	\x3C	\x9C	\xFC
]	\x5D	\x5D	\x3D	\x9D	\xFD
۸	\x5E	\x5E	\x3E	\x9E	∖xFE
_	\x5F	\x5F	\x3F	\x9F	\xFF
`	\x60	\x60	\x40	\xA0	-
a	\x61	\x61	\x41	\xA1	-
b	\x62	\x62	\x42	\xA2	-
с	\x63	\x63	\x43	\xA3	-
d	\x64	\x64	\x44	\xA4	-
e	\x65	\x65	\x45	\xA5	-
f	\x66	\x66	\x46	\xA6	-
g	\x67	\x67	\x47	\xA7	-
h	\x68	\x68	\x48	\xA8	-
i	\x69	\x69	\x49	\xA9	-
j	\x6A	∖хбА	\x4A	∖xAA	-
k	\x6B	\x6B	\x4B	\xAB	-
1	\x6C	\x6C	\x4C	∖xAC	-
m	\x6D	\x6D	\x4D	\xAD	-
n	\x6E	\x6E	\x4E	∖xAE	-
0	\x6F	\x6F	\x4F	\xAF	-
р	\x70	\x70	\x50	\xB0	-

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Input	t Data		Outpu	ıt Data	
On applications (Word, VB, etc), user specified characters		Output code for printer			
Character	Code	ESC_FONT	DATA1	DATA2	DATA3
q	\x71	\x71	x51	$\xB1$	-
r	\x72	\x72	\x52	\xB2	-
S	\x73	\x73	\x53	\xB3	-
t	\x74	\x74	\x54	\xB4	-
u	\x75	\x75	\x55	\xB5	-
v	\x76	\x76	\x56	\xB6	-
w	\x77	\x77	\x57	\xB7	-
х	\x78	\x78	\x58	\xB8	-
у	\x79	\x79	\x59	\xB9	-
Z	\x7A	\x7A	\x5A	∖xBA	-
{	\x7B	\x7B	\x5B	\xBB	-
	\x7C	\x7C	\x5C	∖xBC	-
}	\x7D	\x7D	\x5D	\xBD	-
~	\x7E	\x7E	\x5E	\xBE	-
	\x7F	\x7F	\x5F	\xBF	-

* Cannot be entered using a character.



٦



3.6.4. 2D Code Font Usage

QR code can be specified up to 500 bytes. (It includes input data and punctuated marks in 500bytes.) Sample programs of Visual Basic using 2D code is as follows;

QR Code Print Sample1:

Deleter Fred Mana IID 1 / 17 17 11	
Printer.Font.Name = "Printer 17cpi Tall	
Printer.Print "QR Code Test Print for VI	3 6.0"
Printer.Font.Name = "Printer 17cpi"	
Printer.Print	
Printer.Print "DATA:"	
Printer.Print "http://www.star-m.jp/"	
Printer.Print	
Printer.Print "QR code:";	
Printer.Font.Name = "QR_CNTL"	'QR_CNTL font setting
Printer.Print "M2";	'Bar code model setting
Printer.Print "Em";	'Error correction level setting (correction rate: 15%)
Printer.Print "S3"	'Module size setting (size: 3 dot)
Printer.Print "B1";	'Bar code data setting (manual data analysis) + number of blocks
Printer.Print "2";	'Alphanumeric characters (data type)
Printer.Font.Name = "DATA1"	' DATA1 = 0x0000 - 0x005F
Printer.Font.Name = "DATA1" Printer.Print Chr(&H35);	
	DATA1 = $0x0000 - 0x005F$ Change $0x35 \rightarrow 0x15, 0x20 \rightarrow 0x0$ Number of bytes: 21 (0x15) + 0 (0x0) = 21 bytes
Printer.Print Chr(&H35);	Change $0x35 \rightarrow 0x15, 0x20 \rightarrow 0x0$
Printer.Print Chr(&H35); Printer.Print Chr(&H20);	Change $0x35 \rightarrow 0x15$, $0x20 \rightarrow 0x0$ Number of bytes: 21 (0x15) + 0 (0x0) = 21 bytes
Printer.Print Chr(&H35); Printer.Print Chr(&H20); Printer.Font.Name = "ESC_FONT"	Change $0x35 \rightarrow 0x15, 0x20 \rightarrow 0x0$ Number of bytes: 21 (0x15) + 0 (0x0) = 21 bytes 'ESC_FONT = 0x0020 - 0x007F
Printer.Print Chr(&H35); Printer.Print Chr(&H20); Printer.Font.Name = "ESC_FONT" Printer.Print "http://www.star-m.jp/";	Change $0x35 \rightarrow 0x15$, $0x20 \rightarrow 0x0$ Number of bytes: 21 ($0x15$) + 0 ($0x0$) = 21 bytes 'ESC_FONT = $0x0020 - 0x007F$ 'Bar code data (21 bytes)
Printer.Print Chr(&H35); Printer.Print Chr(&H20); Printer.Font.Name = "ESC_FONT" Printer.Print "http://www.star-m.jp/"; Printer.Font.Name = "QR_CNTL"	 Change 0x35 → 0x15, 0x20 → 0x0 Number of bytes: 21 (0x15) + 0 (0x0) = 21 bytes 'ESC_FONT = 0x0020 - 0x007F 'Bar code data (21 bytes) 'QR_CNTL font setting

WE MO When the QR code data setting is set to manual data analysis, be sure to set the number of blocks and the entered data type.

For information on the setting method, refer to the separate manual "STAR Line Mode Command Specifications".



QR Code Print Sample2:

Private Sub Command2_Click()					
Printer.Font.Name = "Printer 17cpi Tall"					
Printer.Print "QR Code Test Print for VB 6.0"					
Printer.Font.Name = "Printer 17cpi"					
Printer.Print					
Printer.Print "DATA:"					
Printer.Print "http://www.star-m.jp/"					
Printer.Print					
Printer.Print "QR code:";					
Printer.Font.Name = "QR_CNTL"	'QR_CNTL font setting				
Printer.Print "M1";	'Bar code model setting				
Printer.Print "Eq";	'Error correction level setting (correction rate: 25%)				
Printer.Print "S7"	' Module size setting (size: 7 dot)				
Printer.Print "A0";	'Bar code data setting (automatic data analysis)				
Printer.Font.Name = "DATA1"	' $DATA1 = 0x0000 - 0x005F$				
Printer.Print Chr(&H35);	Change $0x35 \rightarrow 0x15$, $0x20 \rightarrow 0x0$				
Printer.Print Chr(&H20);	Number of bytes: $21 (0x15) + 0 (0x0) = 21$ bytes				
Printer.Font.Name = "ESC_FONT"	1 ESC FONT = 0x0020 - 0x007F				
	—				
Printer.Print "http://www.star-m.jp/";	'Bar code data (21 bytes)				
Printer.Font.Name = "QR_CNTL"	'QR_CNTL font setting				
Printer.Print "P"	' Printed characters for bar code data				
i muoni mut i					
Printer.EndDoc					
End Sub					





■ PDF417 printing - Sample 1

Private Sub Command4_Click() Printer.Font.Name = "Printer 17cpi Tall" Printer.Print "PDF417 Test Print for VB 6.0" Printer.Font.Name = "Printer 17cpi" Printer.Print Printer.Print "DATA:" Printer.Print "1234567890" Printer.Print Printer.Print "PDF417: "; Printer.Font.Name = "PDF417" Printer.Print "S023"; ' Specifies the barcode size. Printer.Print "E3"; ' Specifies the ECC level. Printer.Print "M3" ' Specifies the X-direction size of the PDF417 module. Printer.Print "A3" 'Specifies the aspect ratio of the PDF417 module. Printer.Print "D"; ' Specifies bar code data. Printer.Font.Name = "DATA1" ' DATA1 = 0x0000 - 0x005F ' Specifies the number of barcode data bytes. Printer.Print Chr(&H2A); Printer.Print Chr(&H20); Printer.Font.Name = "ESC_FONT" $'ESC_FONT = 0x0020 - 0x007F$ Printer.Print "1234567890"; Printer.Print.Name = "PDF417" Printer.Print "P" ' Prints bar code data. Printer.EndDoc End Sub





■ PDF417 printing - Sample 2

Private Sub Command5_Click() Printer.Font.Name = "Printer 17cpi Tall" Printer.Print "PDF417 Test Print for VB 6.0" Printer.Font.Name = "Printer 17cpi" Printer.Print Printer.Print "DATA:" Printer.Print " http://.star-m.jp/" Printer.Print Printer.Print "PDF417:"; Printer.Font.Name = "PDF417" Printer.Print "S023"; ' Specifies the barcode size. Printer.Print "E3"; ' Specifies the ECC level. Printer.Print "M3" ' Specifies the X-direction size of the PDF417 module. Printer.Print "A3" ' Specifies the aspect ratio of the PDF417 module. Printer.Print "D"; 'Specifies bar code data. Printer.Font.Name = "DATA1" ' DATA1 = 0x0000 - 0x005F Printer.Print Chr(&H31); ' Specifies the number of barcode data bytes. Printer.Print Chr(&H20); Printer.Font.Name = "ESC_FONT" $'ESC_FONT = 0x0020 - 0x007F$ Printer.Print "http://.star-m.jp/"; Printer.Print.Name = "PDF417" Printer.Print "P" ' Prints bar code data. Printer.EndDoc End Sub



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3.7.2-Tone Color Printing and Paper Type Settings

This driver supports two-tone color printing.

To perform two-tone color printing and use special paper, load the appropriate thermal paper in the printer, and configure the following setting.

- (1) In Control Panel, select "Devices and Printers".
- (2) Right-click on the icon of the target printer queue, and select "Printing preferences" in the pull-down menu.





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(3) When the "Printing Preferences ... " window opens, click the "Paper/Quality" tab. Then, select the type of paper that suits the print color that has been specified.

Paper Type and Print Color Configuration Window



For normal gray scale printing

For gray scale printing on normal thermal paper, select the following:

Media : Select "normal type paper"

Color : Select "black and white" check button

For two-tone color printing

For color printing on two-tone thermal paper, select the following:

Media : Select "2 color paper"

Color : Select "color" check button

For printing on special paper

When you need to print darker than normal gray scale, or use special paper such as high image stability paper, select the following:

Media : Select "high image stability paper"

Color : Select "black and white" check button



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4. TSP100 Configuration Application

The TSP100 configuration application lets you control the look and content of printed receipts.

You can set up separate configurations for Star Line mode and for ESC/POS mode.

Notes:

TSP100 configuration application settings require computer administrator privileges.

There are the following two methods to launch the TSP100 configuration application.

• Using the Windows Start menu

Select "Programs, All Programs or All Apps" - "StarMicronics" - "Configuration Utility TSP100", and proceed to step (4).



- Using Properties of the printer
- (1) In Control Panel, select "Devices and Printers".
- (2) Right-click on the icon of the target printer queue. Then, in the pull-down menu, select "Printer Properties".



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(3) Click "Launch Configuration Application" in the "TSP100 Config" tab.

👼 Star TSP100	Cutter (TSP14	3) Properties			×
General	Sharing	Ports	Advanced	Color Manag	
Security		Device Setti	ngs	TSP100 Confi	
Click on this bu	itton to launch t	he Configuration	n Application for	your printer.	
		_			
	Museus h Con				
	Unch Cor	figuration Appli	cation		
			ОК	Cancel	Apply

- (4) The "User Account Control" window will appear. Click "Yes".
- (5) When the LAN and Bluetooth functions are installed with the standard setup, if an avaliable printer is not found, the following window will appear. When using the TSP100LAN / Bluetooth series printer, click "OK" to start the LAN/Bluetooth setting tool, and add the required printer, referring to "<u>1.3 Adding a Printer (TSP100LAN)</u>", "<u>1.4 Adding a Printer (TSP100IIIW)</u>", "<u>1.5 Adding a Printer (TSP100IIILAN)</u>" or "<u>1.6 Adding a Printer (TSP100IIIBI)</u>".

When using a USB printer, click "Cancel" to stop the procedure, and add the required printer, referring to "<u>1.2 Adding a Printer (TSP100U/PU/GT/ECO/IIIU)</u>".





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(6) If the application is launched from the Start menu while there are multiple available printer queues, the following window will appear. Select a target printer, and click "OK".

If the LAN and Bluetooth functions are installed, you can select the "Add TSP100 LAN/Bluetooth" checkbox to start the TSP100 LAN / Bluetooth Setup Tool.

🜠 Select A Printer 💦 🖓	×
Please choose the device that you wish to configure.	
Ster TSP143IIIEAN Cutter Star TSP143IIIBI Cutter	>
Add TSP100LAN/Bluetooth OK	
Add TSP100LAN/Bluetooth	

(7) Select a target emulation, and click "OK".

🜠 Select An Emulation	x
Please choose the emulation that you wish to configure.	
Star Line Mode (default) ESC/POS Mode	
ОК	

(8) The "TSP100 Configuration" window will be opened.

🖌 S	tar Micronics TSP100 C	onfi	guration (Star Line Mode)				
File	(<u>F)</u> View(<u>V</u>) ECO(<u>E</u>)	He	lp(H)				
<u>(</u>)	Information	-					
ß	General Settings		Star Micronics TSP100	itar×			
62	Star Cloud Services		Device Information				
<u>@</u>	ECO Settings		Printer Queue Name: Star TSP100 Cutter (TSP143)				
•?	Print Tests		Emulation: Star Line				
0	OPOS		Printer Serial Number: 57a76c3601				
۲	JavaPOS						
	Serial Ports		Now available for FREE				
	Image List		C All Receipts				
0	Logos & Cropping		The safe and reliable digital receipt solution				
din a	Text Processing						
	Barcodes						
1/2	Journal						
7	Vertical Mount		Click on to connect				
F	Printer Font	~	Star Cloud Services				
			Apply Changes	Close			





IMPORTANT: After changing any setting in the "TSP100 Configuration" window, be sure to click "Apply Changes".

The changed setting is enabled by clicking "Apply Changes".

s.	Star Micronic	s TSP100 (Configu	ration (Star	Line Mode)					Х
File		ECO(<u>E</u>)	Mana	gement(<u>M</u>)	Help(<u>H</u>)					
1	Information		^	Ctor	Mieron		FSP100		cllo	
ß	General Setting	gs		Star	witcror	lics	137100		sta	l C
62	Star Cloud Ser	vices		Device	e Informatio	n				_
2	ECO Settings			Printer Qu	ueue Name:		Star TSP143IIIBI Cutt	er		
2	Print Tests			Emulation	1:		Star Line			
0	OPOS			Printer Se	erial Number:		BT_COM6			
۲	JavaPOS									
	Serial Ports Now available for FREE									
H U H 2	Image List			C			leceip	ts		
•							olution			
	Text Processin	g				CARRIER				
	Barcodes					Participation of the second				
1	Journal					-				
7	Vertical Mount					Click	on to con	nect		
F	Printer Font		~			cen	Star Cloud Serv			
							Apply Changes		Close	



4.1. Menu Functions

候 Star	r Micronic	s TSP100	Configuration (Star l	ine Mode)
File(<u>F</u>)	View(<u>V</u>)	ECO(<u>E</u>)	Management(<u>M</u>)	Help(<u>H</u>)

The menu bar in the "TSP100 Configuration" contains the "File", "View", "ECO", "Management" and "Help" menus. Each menu is explained on the following pages.

4.1.1. File



1. Export

The settings made using the "TSP Configuration" can be saved. The settings are saved as a file with an ".xml" extension.

2. Import

Previously saved settings made using the "TSP Configuration" can be imported. Import the file with the ".xml" extension, and then click "Apply".

Note:

- 1. The settings for the Star Line mode and ESC/POS mode are saved separately. When importing the settings, confirm the selected mode, and then import the setting file.
- 2. The following settings made using the "TSP Configuration" cannot be imported or exported.
 - Star Cloud Services
 - OPOS
 - JavaPOS
 - Serial ports
 - Virtual TCP/IC port
 - Settings in "3. Windows Printer Driver Usage"



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MEMO

When importing data using an operating system or user different from that for exporting data, execute the following steps to use the HexDump mode, ECO settings - on-demand function, and journal function.

- HexDump Mode
 - 1. Change the folder where to save data in the HexDump mode setting window.
 - 2. Click "Set".
- ECO settings on-demand function
 - 1. In the ECO Settings window, clear the "Enable on demand" checkbox once.
 - 2. Select the "Enable on demand" checkbox again.
 - 3. Click "Apply Changes".
- Journal function
 - 1. In the Journal and Multi-Copy window, clear the "Enable Journal" checkbox once.
 - 2. Select the "Enable Journal" checkbox again.
 - 3. Click "Apply Changes".



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3. HexDump Mode

All of the data transmitted to the printer from the computer is printed or output as a file using hexadecimal code.

The data transmitted to the printer can be checked for correctness and the causes of errors can be investigated.

🖋 HexDump mode	X
Print Setting Print (General) Print (Dump Data) No Print 	Set Please click the "Apply" button after closing this window.
Output to File Dutput Dump Data to File Save to folder	
d: [EN] d: [EN] d: [EN] Comments and Settings comments and Settings comments and Settings comments comments	
	Set as Default

■ Print [Dump Data]

All of the data transmitted to the printer from the computer is printed using hexadecimal code.

■ Output Dump Data to File

All of the data transmitted to the printer from the computer is output as hexadecimal binary data in a file to the specified folder.

Note: To apply the setting, click "Set", and then click "Set" in the utility screen.





4.1.2. View



1. List display/Icon display

The setting items for the "TSP Configuration" can be displayed as a list or as icons.

🙀 Star Micronics TSP100 Config	guration (Star L	**	Star Micro	onics TSP100 Conf	iguration (Star L
File(F) View(V) ECO(E) He	lp(H)	File	e(F) Vie	»(V)] ЕСО(Е) Н	elp(H)
View As List		1	Info 🗸	View As List	
View As Icons	r N	ß	Ge	View As Icons	r N
Select Language	ice li		EC	Select Language	ice l
=	Printer Queu	•?	Print Tes	sts	Printer Queu
General Settings	Emulation:	0	OPOS		Emulation:
	Printer Serial	۲	JavaPO	s	Printer Serial
			Serial Po	orts	
ECO Settings		11	Image Li	st	
		6	Logos &	Cropping	

2. Language selection The display language can be selected.

STEP 1:

On the "View" menu, select "Language selection" to display the list of available languages.

📢 Star	Micro	nics TSP100 Configuration (Star Line Mode)
File(F)	View	v(V) ECO(E) Help(H)	
 Info 	\checkmark	View As List	1
💰 Ge		View As Icons	r Micron
EC	\langle	Select Language	ice Information
_			





STEP 2:

Select the language, and then click "Select".

🛱 Select Language	
English(United States) English(United Kingdom) Japanese French German Spanish Simplified Chinese Traditional Chinese Dutch	Select Cancel
Oroatian Slovenian Ozech Russian Turkish Italian Hungarian Danish Swedish Finnish Norwegian Portuguese	lfyou select new language, close Configuration Utility. Open again, language will be changed.

STEP 3:

Click "Select", and then temporarily close the "TSP Configuration". By opening the "TSP Configuration" again, the selected language will be displayed.

🛿 Sélectionner une émulation 🛛 🛛 🔀	<mark>K Configuration de la Sta</mark>
Choisissez l'émulation que vous	Fichier Afficher Aide
souhaitez configurer.	Informations
	🚯 Paramètres généraux
Mode 'Star Line' (par défaut) Mode ESC/POS	Tests d'impression
	OPOS
ОК	JavaPOS
	Ports série
	🔢 Liste d'images

Note: If the characters are corrupted, change the settings in the Advanced tab in Regional Options in Control Panel in Windows.



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4.1.3. ECO

When using the printer with the ECO settings, the percentage of paper saved can be confirmed by enabling this function.

ĺ	🜠 Star Micronics TSP100 Configuration (Star Line Mode)						
	File(F) View(V)	ECO(E) H	elp(H)			
	<u>(</u>)	Information	Show	ECO result		l	
		General Setting	gs	Star	MIC	ronic	

1. ECO indicator setting

Select "Enabled" checkbox in the "ECO Indicator" window to start measurement.

	K ECO Indicator		
\langle	Enabled		A
		0% paper saved	Givene of Buren's
		All	朝鮮人
	Clear	6-	Close

2. Check the result.

After printing, open the "ECO Indicator" window again to check the result.



3. Clear the accumulated result.

Click "Clear" to clear the accumulated result.







4.1.4. Management



(1) Log output settings

This is used to record logs and identify causes when communication errors occur.

	×
Log Size 1 MB (1 - 100)	
erDriver\ Browse_	
Cancel OK	
	erDriver\ Browse_

(2) Clone Serial Number Settings << TSP100IIIW / TSP100IIILAN only >> If the clone serial number is set for the printer, the clone serial number is treated as the product serial number by the printer's system that identifies it using the product serial number.

If you change the printer due to a repair, etc, the printer can be recognized on the system as being the same as the previous printer by setting the clone serial number as a replacement printer.

🍕 Clone Serial Number Settings					
What is the Clone Serial Number ?					
Product Clone	1234567890123456				
Clone Serial Number : Alphanumeric charactors. (1 to 16 digits.) In case of blank, it will use product serial number.					
	Apply	Close			

Clone Serial Number:

- Supported characters are: "a" "z", "A" "Z", and "0" "9".
- A maximum of 16 characters can be used.



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(3) Printer Connection Settings << TSP100IIIBI only>>

If you enable the "Always enabled" setting, the printer will remain constantly connected. Because the processing of port-open and port-close for each printing process is no longer required, the time until the printer starts printing will be reduced.

If the following conditions all apply, it is recommended to use this setting.

- -You are using the printer and the host device as a pair.
- -You are using a Windows driver.
- -You want to reduce the time before the printer starts printing.

	×
Cancel	ок
	Cancel

Notes:

- If the "Always enabled" setting is enabled, you cannot connect from another device. If you are using an operating system other than Windows and are connecting from multiple devices, disable the "Always enabled" setting.
- If the "Always enabled" setting is enabled, you cannot use an application other than futurePRNT even with the same device.

Available: - Printing via a Windows printer driver, OPOS, JavaPOS and Serial Ports.

Unavailable:

- [Configuration] and [Check Connection] in the TSP100 LAN / Bluetooth Setup Tool screen.
- Communication with a printer that used StarIO.





4.1.5. Help

<mark> 🔣</mark> S	atar Micronics	TSP100 Co	nfiguratio	on (St	ar Line	Mode)
File	(F) View(V)	ECO(E)	Help(H)			-
í	Information	<	Abo		>	
ß	General Setting	gs	P	rın	ter	Tes

The software version can be confirmed using the "Help" menu.





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4.2. Information

The Information window displays device information of the printer to be configured.

	<mark> 🔣</mark> S	📢 Star Micronics TSP100 Configuration (Star Line Mode)					
	File	(E) View(V) ECO(E)	He	elp(<u>H</u>)			
\subseteq	í	Information	*	0. N.	TOD400		
	ß	General Settings		Star Micronic	S 15P100	star	
	62	Star Cloud Services		Device Information			
	2	ECO Settings		Printer Queue Name:	Star TSP100 Cutter (TSP143)	
	•?	Print Tests		Emulation:	Star Line		
	0	OPOS		Printer Serial Number:	57a76c360 <u>1</u>		
	۲	JavaPOS					
		Serial Ports		Nowa	available for FREE		
		Image List			Receipts		
	0	Logos & Cropping		and the second se	nd reliable digital receipt solution		
	<i></i>	Text Processing					
		Barcodes		-	Constant of the second se		
	1/2	Journal			12		
	¥	Vertical Mount		c	lick on to connect		
	F	Printer Font	Ŧ		Star Cloud Services		
					Apply Changes	Close	



4.3. General Settings

Click the "General Settings" tab in the left pane of the window.

44	Star Micronic	s TSP100	Configu	iration (Star	Line Mode)					×
Fil	e(<u>F)</u> View(<u>V</u>)	ECO(<u>E</u>)	Mana	gement(<u>M</u>)	Help(<u>H</u>)					
(1) (1)	Information General Settin	gs	^	Gene	ral Setti	ng (Sta	r Lin	e)	sta	nr×
62	Star Cloud Ser	vices		<u>Defau</u>	lt Text Set	tings	Po ates	AIR +32	029	_
<u></u>	ECO Settings					Zero	Style	Standard	Call of	~
•?	Print Tests				Internatio	onal Charact	er Set Page	USA	~	~
0	OPOS				a	haracter End	500	Normal Single Byte Ch		~
3	JavaPOS				- Ana lor	de la		THRUP LOW	2.51000000	28.37
	Serial Ports			<u>Defau</u>	lt Print Set	tings Line Spaci	S .		A'	all a
	Image List				Start You Gard	Print Dens	7 🛄			~
0	Logos & Cropp	oing			102	Print Spe	ed Hig	jh	A.C	~
	Text Processir	ng			381102	Print Wic	131 12	mm		~
	Barcodes				100	nt Start Timi		able	N	~
1/2	Journal						De	tect Page End	- 1.0°	2 ~ 2011 - 2012 - 2012 2012 - 2012 - 2012 2012 - 2012 - 2012
¥	Vertical Mount	1					1050181		set?	118 1191
F	Printer Font		\sim			1	S.		Bar	
							Apply C	hanges	Close	

MEMO

When the printer driver is used for printing, text and line spacing settings are available only when device fonts are used.





4.3.1. Default Text Settings

■ Zero Style

General Settings	star
Default Text Settings	· · · · · · · · · · · · · · · · · · ·
Zero Style	Standard 🗸
International Character Set	Standard Slashed

The default zero style is "Standard".

Selects whether the printer prints zeros in non-slashed form or slashed form. Select either "Standard" (O) or "Slashed" (\emptyset).

■ International Character Set



The default international character set is "USA".

Changing the international character set will change certain characters in the character table to match those characters fitting the selected location. Typically the changes are accented characters and currency symbols.

■ Code Page

Code Page	Normal	~
Character Encoding	Normal 437 (USA,std. Europe)	^
Default Print Settings	Katakana 858 (Multilingual) 852 (Latin-2)	_
State Spacing	860 (Portuguese) 861 (Icelandic) 863 (Canadian Frence)	~

The default code page is "Normal" in the Star Line mode and " ESC/POS 437(USA,std. Europe)" in the ESC/POS mode.

Changing the code page offers additional special characters specific to each of the specified languages.





Character Encoding



The default character encoding is "Single Byte Characters".

Selects the character encoding used by the printer. You can select either single-byte encoding (common for all non-Asian languages) or any of the four available double-byte encodings (for the corresponding Asian languages).

■ Font Type <ESC/POS mode only>

Standard: (the default): Selects the standard font. **Large**: Selects a rounder, bulkier-looking font.



ME MO If "Large" is specified for "Font type", a larger text is created based on a font design, and it looks a little tight because the character space is the same as for the standard font type.

■ Character space (Right) <ESC/POS mode only>

 $\mathbf{0}$ (the default) to $\mathbf{3}$ dots

Use this feature to add extra space (in dot units) to the right of each character. Extra spacing may improve appearance when you are using the Large font type.

Character space(Right)	+Odot 🗸	B
Default Print Settings	+0dot +1dot	
	+2dot +3dot	

4.3.2.

Default Print Settings

■ Line Spacing

Default	Print Setting	S o	Lugar Production	
a far	and Stellent	Line Spacing	g 4mm	×
3	Carlor Fighter	Print Density	4mm 3mm	

The default line spacing is "4 mm".

If the spacing is set to 4 mm (the initial setting), the printer will add a 1-mm line space between each 3-





mm-tall line of characters. If the spacing is set to 3 mm, the added spacing is omitted and receipts are correspondingly shorter. But note that the shorter receipts may be harder to read.

Print Density

Line Spacing	4mm	*
Print Density	100%	~
Print Speed	130% (darkest) 120% 110%	
2" Print Width	100% 90% 80%	
l en C	70% (lightest)	101

Adjusting the print density allows for adjustment in the level of contrast to compensate for the different levels of sensitivity of different types and grades of thermal paper. The recommended setting is 100% (Default).

Print Speed



Depending on the application, it may be desirable to slow down the speed of printing. This is typically done to adjust the quality of print based on the grade and type of paper used. The recommended settings for most cases "High" (Default).





Print Width

Settings		-all
Line S	Spacing 4mm	Y
Print	Density 100%	~
e Prin	t Speed High	Y
Prir	nt Width 72mm	~
10,00	72mm	
	Line	Line Specing 4mm Print Density 100% Print Speed High Print Width 72mm

The print width should be set according to the size of paper used. The default (recommended print width) is 72 mm. The standard default print width is 72 mm, which provides 4-mm margins on both sides of 80-mm paper. The 51-mm print width setting is appropriate if you are using the optional 58-mm paper supported by the TSP100 futurePRNT.

Notes: The print width is automatically changed to fit the paper width specified at addition of the OPOS POS printer.

After changed automatically, do not adjust the print width manually.

■ Automatic Retry



If a printing error occurs while "Automatic Retry" is set to "Enable", the sent data is resent from the beginning.

Retry processing is repeated up to five times.

The default is "Enable" for TSP100U/PU/LAN/ECO, and "Disabled" for TSP100GT.

Note:

- 1 If "Automatic Retry" is set to "Disabled", the ETB command is enabled in the application side. However, check that the ETB is returned for one job before sending the next print data. If print data is sent simultaneously from multiple PCs, the ETB will not be guaranteed.
- 2 In the ESC/POS mode, the ETB command is not available even if "Automatic Retry" is disabled.
- **3** The automatic retry function is not available for OPOS, JavaPOS, virtual serial port, and virtual TCP/IP port.

■ Characters/Line (font A) <ESC/POS mode only>

42 char. (default): The standard for ESC/POS mode.

48 char.: The standard for Star Line mode.

Characters/Line (fontA) 42 char.(ESC/POS compatible) 42 char.(ESC/POS compatib **Resolution Pitch** 48 char





■ Resolution Pitch <ESC/POS mode only>

- **Star Line standard**: Uses Star Line mode's standard resolution. (Characters are smaller than on true ESC/POS printers, so the printer receipt is smaller and the right margin is larger.)
- **ESC/POS compatible (default)**: Margins and line widths are the same as on a typical ESC/POS printer. (Characters are the same size as with Star Line standard, but padding is added so that printer area occupies the same area as on a true EPSON/POS printer.)



Using this function, you can use legacy software solutions with no change. If "Star standard" is selected, the pitch value is not adjusted.

■ Block Print Start Timing <TSP100IIIBI mode only>

Default Print Settings	i yua	-A
Line Spacing	4mm	
29 62 40		- 10 14
Print Density	100.0	~
Print Speed	High	~
Print Width		×
Automatic Retry	Endbio	~
Block Print Start Timing	Detect Page End	~
	Detect Page End	
<i>H</i>	Detect Line End	W

The default line spacing is "Detect Page End".

If you select "Detect Page End", the printer receives 1 page of data, and then starts printing. This is suited to printing receipts that include images (logos, etc).

If "Detect Line End" is selected, because the printer receives 1 line of data and then starts printing, the time until the printer starts printing can be reduced. This is suited to printing receipts that include text data only. A white line may be included when printing receipts that include images (logos, etc).





4.4. Star Cloud Services

Click the **Star Cloud Services** tab on the left side of the dialog box.

(i)	Information 🗠	Chan Oland Camilana alland
ß	General Settings	Star Cloud Services
6 20	Star Cloud Services	Learn about Star Cloud Services
094.2		Here Please register for a Star Cloud Services account prior to login.
2	ECO Settings	
	Print Tests	Account Enter your Star Cloud Services account: Username (Email) and Password.
5	Frint Tests	
	OPOS	Username (Email)
3	JavaPOS	
		Password
	Serial Ports	
	Image List	Show Password
	Image List	Register Device
0	Logos & Cropping	Connect to Dashboard
_		2 Offline
di la	Text Processing	Retailer : Device Name :
_	Barcodes	DeviceID :
_	Darcoues	(DeviceID is system generated)
1/2	Journal	Service
7	Vertical Mount	✓ Print Data Upload
		QR Code Print Size Medium 🗸
F	Printer Font	Micro Receipt Disabled

To use the Star Cloud Services, it is required to register a Star Cloud Services account in advance. Please click "Here" for details.



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4.4.1. Device Registration

Register the device (futurePRNT series printer queue) using your registered Star Cloud Services account.

Once you have registered the device, you can use the service of uploading print data to the cloud server and manage the registered device from the Star Cloud Services dashboard.

(1) Enter the username and the password of your registered Star Cloud Services account and click "Register Device".

Account Enter your Star Cloud Services account: Us	semame (Email) and Password.
Username (Email)	
manifestive that has tool tool	
Password	
Show Password	
Register Device	Connect to Dashboard
🔹 Offline	
Retailer :	
Device Name :	
DeviceID :	
(DeviceID is system generated)	

(2) The following dialog appears. Click OK.

Register Device					
0	Device registration successful Retailer : DeviceID :				
	ОК				

- (3) When the device is registered successfully, the account information of the connected Star Cloud Services appears. You can change the device name by connecting the dashboard with the registered account from "Connect to Dashboard Website". When the device name is changed, click to update the device information on the screen.
- **Note:** To change the account used for the device registration, please uninstall the driver utility and re-install it.



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 4.4.2.
 Setting of Registration

Service	aR Code Print Size	Medium	~
Miere Dessist			-
Micro Receipt	Information + QR code		\sim

When "Print Data Upload" is checked, the QR code is added on the receipt and the data of printed receipt is uploaded on the Star Cloud Server.

The print size of QR code can be specified.

Print Sample)







"Information logo + QR code" or "only QR code" can be set to print without printing the normal receipt data uploaded to the Star Cloud using the Micro Receipt function.

In addition, when "On demand : Information + QR code" or "On demand : QR code" is selected, you can choose to execute or cancel the micro receipt function for each receipt printing. When "Normal Receipt" is selected, execution of Micro Receipt is canceled, the QR code is added on the receipt and the data of printed receipt is uploaded on the Star Cloud Server.





Only QR code



On demand : QR code

On demand : Information + QR code





Micro Receipt cannot be used when on demand function of ECO Settings is enabled.

Note: To upload data on the Star Cloud Server, the host device must be connected to the network. Please note that data may not be uploaded on the Star Cloud Server even though a QR code is added on the receipt depending on the condition of network connection.




4.5. ECO Settings

📢 S	tar Micronics	TSP100 C	onfigur	ration (Star	Line Mode)					×
File	(<u>F)</u> View(<u>V</u>)	ECO(<u>E</u>)	Help(<u>H</u>)						
(j) (L)	Information General Setting	gs	^	ECO	Settir	ngs		SEC TSP futur		co
620	Star Cloud Ser	vices		Auto Re	eduction S	Setting				_
<u></u>	ECO Settings	>			P	aper width u	used 80mm (I	Do Not Comp	oress)	-
•?	Print Tests				Receipt	length reduc	tion Original			•
0	OPOS									
3	JavaPOS			Top Ma	argin to Fi	rst Line				
	Serial Ports				Top Ma	rgin to First	Line 3mm			•
H II H 2	Image List									
0	Logos & Cropp	ing		On dem	nand					
1. A.	Text Processin	g			able on dem	and				_
	Barcodes			1			-			1
1/2	Journal			-				View Sav	ed Data	
7	Vertical Mount									
F	Printer Font		Ŧ						_	
							Apply Change	s	Close	•

Click the ECO Settings tab on the left side of the dialog box.

The contents displayed differ depending on the connected model. ME MO

4.5.1. Auto Reduction Setting

This function reduces the overall size of the printing.



ME MO However, to prevent any scanning errors, the size of printed barcodes is not reduced even if the reduction settings are selected.





Paper width used

Auto Reduction Setting



The default setting is "80mm (Do Not Compress)".

By changing the setting to **80mm->58mm**, the printing area is compressed widthwise so that 58 mm width roll paper can be used instead of 80 mm width roll paper.

- **ME MO** 1) If the printing width is set to 51 mm using General Settings in the configuration utility, the 80mm->58mm setting in Paper width used is disabled.
 - 2) When Paper width used is set to 80mm->58mm, the barcode will be aligned on the left margin of the paper when printed. If the printed barcode will be wider than 80mm->58mm, the barcode data will not be printed.
- Receipt length reduction <TSP100ECO, TSP100IIIU>

Auto Reduction Setting	
Paper width used	80mm (Do Not Compress)
Receipt length reduction	
	Original
	25% reduction 50% reduction

The default setting is **Original** (no reduction).

The printing area can be compressed 50% reduction or 25% reduction lengthwise.

- ME MO Because the size of printed barcodes is not reduced even if the receipt length reduction settings are selected, the receipt length will be longer than the length for the reduction ratio when printing data that contains barcodes.
 - 4.5.2. Top Margin to First Line <TSP100ECO only>

The length from the leading edge of the paper to the first line of printing can be specified.



The default setting is **3mm**.

We recommend 3 mm as being effective for the ECO function; however, backward feeding is carried out for each cut operation when 10 mm or fewer is specified. To reduce the printing time, set to 11 mm.



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4.5.3. On demand

This function reduces the amount of paper wasted on unnecessary printings by prompting the user to select whether or not to print the data.

On demand	
Enable on demand	
Save print job when cancel print	Save 👻
	Save
	Don't Save

MEMO On demand function (Print receipt or not) cannot be used when <u>Micro Receipt function</u> of <u>Ster Cloud Services</u> is enabled.

Enable on demand

To enable the on demand function, select the check box. When the on demand function is enabled, the following confirmation dialog box will appear each time data is sent from the computer to the printer.

Receipt on demand	
PRINT RECEIPT ?	
YES	NO

When **YES** is clicked, the data will be printed.

When **NO** is clicked, the printing will be canceled.

ME MO Normally, the confirmation dialog box appears before the data is printed. However, in rare cases, the confirmation dialog box may not appear, the dialog box may appear after the data is printed, or other problems with the operation of the function may occur. If any of these problems occur, restart your computer. After restarting the computer, check that the on demand function is enabled and that the confirmation dialog box appears at the proper time.



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Saving Canceled Data

When the on demand function is enabled, the data for the canceled printing can be saved or deleted.

When **Don't Save** is selected, the data for the canceled printing will be deleted.

When **Save** is selected, the data for the canceled printing will be saved in the following folder.

<System Drive>\Star\TSP100\Ondemand

Note: When the driver utility application is updated from future PRNT CD 5.5 or earlier, the stored data for canceled printing is transferred to the above folder. If data has not been transferred to the above folder, please check the following folder.

> Hard Disk Drive:\User\< Folder for logged-on user name >\APPData\ Roaming\Star\TSP100\Ondemand

- I) To check the data saved in the folder above, perform the following setting before viewing the data. At the Windows Start menu, select Control Panel → Folder Options, click the View tab, and then click Show hidden files and folders.
 - 2) The data saved in the folder is not deleted automatically regardless of the elapsed time. Therefore, it is recommended to periodically delete any unnecessary data.



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■ View Save Data

The data for canceled printings can be viewed. In addition, to print data that was saved from a canceled printing, perform the following procedure.

(1) Click View Save Data.

_		
Enable on demand		
Save print job when cancel print Save	•	
View	Save Data	>

(2) The Journal tool window appears. Click "Search" to search for the saved data.

<mark> I</mark> Journal			
Date	Time	Preview	
•			
	Search		
	Print		

(3) Enter the date to start searching, and click "OK".

Enter Start Search Date	X
Please enter start search date of Journal data.	OK Cancel
3/11/2010	





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(4) Enter the date to end searching, and click "OK".

This will search for the data saved in the specified period.

Enter End Search Date	×
Please enter end search date of Journal data.	OK Cancel
2/3/2011	

(5) Click the date to check data details in the preview screen.

The saved data appears. Click **Print** to print the data.

M Journal	
Date Time 3/11/2010 9:22:45 PM 3/11/2010 9:22:50 PM 3/11/2010 9:22:52 PM	Character Set
	0 1 2 3 4 5 6 7 8 9 A B C D E F
	2 ! " # \$ % & ' () * + , /
	3 0123456789:;<=>?
	4 @ A B C D E F G H I J K L M N O ⊫ 5 P Q R S T U V W X Y Z F \ 1 ^
	6`abcdefghijklmno
	7 p q r s t u v w x y z { } ~ &
	8 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	9 J Г ╹ ▪ ▪ ╹ ∕ ∖ ◥♥ ┍ ┶ ┯ ┥ ♦ X
	Α Ä Ö Ü ß § ≅ ♀ ƒ ¢ ½ ┡ ᠯ ¥ ¼ Ā ë
	Béèēêïíìīîöóòōôüú
	Cùūûç¿ÑnĒɔ¡Åøθäáà
Search	Dāâ°℃۴ΩμΣσ求ቬΧ∞±÷π
Print	

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Caution When using the on demand function, check the following information. When the on demand function is enabled, the time that the confirmation dialog box appears may vary according to the printing channel that is used. The time that the confirmation dialog box appears for each channel is as follows:

Printer Driver	Immediately after a cut command is sent	
OPOS		
JavaPOS		
WritePrinter API	Immediately after a cut command is sent (Refer to following *1 *2)	
Virtual Serial Port		
Virtual TCP/IC Port	Immediately after a cut command is sent (Refer to following *3)	

- *1) Even if the write data contains several cut commands, the last cut command is recognized as the trigger and the confirmation dialog box appears. However, when multiple receipts are sent in a single batch through a virtual serial port, the data will be divided automatically for processing if it exceeds the buffer capacity. In this case, the cut command just before the buffer becomes full is the trigger. When using a virtual serial port, it is recommended to send the data one receipt (data + cut command) at a time.
- *2) Even if the write data is sent one line at a time, the confirmation dialog box will not appear and the data will not be printed until a cut command is received.
- *3) Send print data on a page basis (data + Cut command). Also, select "Yes" or "No" in the confirmation dialog box, and send the next print data.
- Note: When switching from the TSP100IIU to the TSP100U, the ECO settings may not appear in the TSP100U configuration utility. If the ECO settings were used for the TSP100 ECO, perform the following procedure to reset all of the settings to the default settings, and then use the TSP100U.
 - 1 Insert the CD-ROM into your computer's CD-ROM drive.
 - 2 Start the configuration utility.
 - 3 Import the following files by selecting File \rightarrow Import.

Star line mode :	CD-drive:\Windows\ConfigurationSettingFiles\TSP100ECO\default.config.xml
ESC/POS mode :	CD-drive:\Windows\ConfigurationSettingFiles\TSP100ECO\escpos.xml





4.6. Printer Tests

The page lets you generate various sample receipt printouts.

Use this feature to test or demonstrate the TSP100 futurePRNT's printing capabilities.

1) Information	Printer Tes	ts stor
🕼 General Settings	r finter res	
Star Cloud Services	Test Prints	6 1 4 M N
ECO Settings	Default Character Set	Print the current default single byte character set
7 Print Tests	Barcode Print	Print all supported barcodes
OPOS	Print Head Test	Test the print head
JavaPOS	1 Million	
Serial Ports	CashDrawer/Perip	pheral Device
🔢 Image List	Open CashDrawer 1	Sound Buzzer 1
Logos & Cropping	Open CashDrawer 2	Sound Buzzer 2
Text Processing		
Barcodes	TSP100III Connec	tion check
Ve Journal	Check the connection	It will check the communication with the printer.
Vertical Mount		
F Printer Font		

4.6.1. Default Character Set

Prints a table exhibiting the entire TSP100 futurePRNT default single byte character table.

■ Barcode Print

Prints samples of all of the TSP100 futurePRNT's available barcodes.



Print Head Test

Tests the print head by printing solid black for several lines. If this sample has vertical white lines in the black area this can indicate that the print head requires cleaning or repair. Refer to the printer's owner's manual for further instructions regarding routine maintenance.

4.6.2. CashDrawer/Peripheral Device Test

■ Open Cash Drawer 1

Tests cash drawer 1.

• Open Cash Drawer 2

Tests cash drawer 2.

■ Buzzers 1 and 2 <Star Line mode only>

Clicking "Buzzer 1" or "Buzzer 2" allows you to check that each buzzer is running normally.

Notes:

The buzzer test button is available only in the Star Line mode, and it is not displayed in the ESC/POS mode.

In the ESC/POS mode, you can click the cash drawer test button to check that the buzzer connected to the printer sounds.

4.6.3. TSP100III Connection check

<<TSP100IIIW, TSP100IIILAN, TSP100IIIBI only>>

Connection check

Click [Check the connection] to check whether you can communicate with the printer. The connected printer's LED (blue) will blink.



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4.7. OPOS Installation <Star Line mode only>

The OPOS printer driver is included with the Windows driver installation. However, before it can be used with an OPOS application, the printer must be registered. If a cash drawer is connected to the printer, the cash drawer must also be registered. Registration of the printer and cash drawer is accomplished through the configuration utility.

New lete
elete
figure
(Health
Application
New
elete
figure] < Health
Application
ppication
k

Note: Before registering a printer or cash drawer, confirm the control object registration status. The registration procedure is different depending on the control object registration status.



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4.7.1. Adding a Printer

• When no control object is registered:

"Not Selected" is selected in the 'Control Object Registration' field.

(1) Click "Add New".

OPOS POSPrinter Device Names			
Control Object Registration	10 A	2	1
Not Selected	-		
		Add New	

(2) The following dialog box appears. Enter the name of the printer to be added, select the print width and click "OK".

Add OPOS Device	×
Please enter the new device name.	ОК
Print Width	Cancel
180dpi compatible mode	
Star TSP100 Cutter(TSP143)_1	

■ 180dpi compatible mode

When 180dpi compatible mode is checked, the left and right margins are automatically adjusted.

(3) The printer is added, and "OPOS CCO (OPOS common control object)" is selected in the 'Control Object Registration' field.

Click "Apply Changes" to register the new printer device.

OPOS POSPrinter Device Na	mes
Control Object Registration OPOS CCO	
Star TSP100 Cutter (TSP143)_1	Add New
	Delete

- Notes: 1) The print width must match between the setting above and general settings (refer to "4.3.2 Print Width in General Settings"). If they do not match, the print width specified in general settings is automatically changed to the setting above.
 - 2) The print width can be specified only when a printer is added. To change the selected setting value, delete the device, and re-execute the steps to add a printer.



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• When "OPOS CCO" or "Star CO" is registered as a control object:

"OPOS CCO" or "Star CO" is selected in the 'Control Object Registration' field.

(1) Click "Add New".

<When "Star CO" is selected>

OPOS POSPrinter Device	e Names
Control Object Registration	P. A.A.
Star CO	Add New

(2) The following dialog box appears. Enter the name of the printer to be added, select the print width and click "OK".

Add OPOS Device	×
Please enter the new device name.	ОК
Print Width	Cancel
180dpi compatible mode	
Star TSP100 Cutter(TSP143)_1	

180dpi compatible mode
 When 180dpi compatible mode is checked, the left and right margins are automatically adjusted.

(3) A printer is added. Click "Apply Changes" to register the new printer device.

	OPOS POSPrinter Device Name	s
1	Control Object Registration	A 20 1
	Star CO	
\langle	Star TSP100 Cutter (TSP143)_1	Add New
		Delete

- Notes: 1) The print width must match between the setting above and general settings (refer to "4.3.2. Print Width in General Settings"). If they do not match, the print width specified in general settings is automatically changed to the setting above.
 - 2) The print width can be specified only when a printer is added. To change the selected setting value, delete the device, and re-execute the steps to add a printer.



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• When a non-Star control object is registered:

"Others" is grayed out in the 'Control Object Registration' field.

(1) Click "Add New".

OPOS POSPrinter Devic	e Names
Control Object Registration	P. P. A.
Others	Add New
	Configure

(2) The following confirmation dialog box appears.

To register the recommended common control object (OPOS CCO), click "Yes", and proceed to step (3). To use a non-Star control object, click "No", and proceed to step (4).

OPOS.POSPrinter Control Object	x
This system already has an OPOS.POSPrinter Cont Would you like to Install the Common Control Ob	
Yes	No

(3) The following confirmation dialog box appears to check with you if you want to delete the currently registered control object.

To continue, click "Yes".

OPOS.POS	Printer Control Object
Â	The OPOS.POSPrinter Control Object that is currently registered is deleted. Are you really sure?
	Yes <u>N</u> o

Notes: Once a control object is deleted, it cannot be recovered.





(4) The following dialog box appears. Enter the name of the printer to be added, select the print width and click "OK".

Add OPOS Device	×
Please enter the new device name.	ОК
Print Width	Cancel
180dpi compatible mode	
Star TSP100 Cutter(TSP143)_1	

- 180dpi compatible mode When 180dpi compatible mode is checked, the left and right margins are automatically adjusted.
- (5) When the printer is added and the control object is changed to "OPOS CCO (OPOS common control object)", "OPOS CCO" is selected in the 'Control Object Registration' field.

Click "Apply Changes" to register the new printer device.

OPOS POSPrinter Device N	lames
Control Object Registration	
OPOS CCO	-
Star TSP100 Cutter (TSP143)_1	Add New
	Delete
	Configure

Notes:

- 1) If the Star printer is used with a non-Star control object, it may not run normally. If this occurs, register "OPOS CCO (OPOS common control object)" we recommend.
- 2) The print width must match between the setting above and general settings (refer to "4.3.2. Print Width in General Settings"). If they do not match, the print width specified in general settings is automatically changed to the setting above.
- 3) The print width can be specified only when a printer is added. To change the selected setting value, delete the device, and re-execute the steps to add a printer.



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4.7.2. Configuring a Printer

Click "Configure" for OPOS POSPrinter to specify a logical device name for a target printer.

(1) Select a target printer, and click "Configure".

OPOS POSPrinter Device Names		
Control Object Registration	1 4 A A	
Star CO	-	
Star TSP100 Cutter (TSP143)_1	Add New	
	Delete	
	Configure	
	Check Health	
	Sample Application	

(2) The following window appears. Click "Add New".

🙀 OPOS POSPrinter Configuration	×
Device Name: Star TSP100 Cutter (TS	P143)_1 51mm
Logical Device Names	
	Add New Delete
Do Checked Block Printing	
	Accept Cancel

The setting value is displayed only when the print width of the printer is set to 51 mm.

(3) Enter the name, and click "OK".

Add New	x
Please enter the new logical device name.	
Star TSP100 Cutter (TSP143)_1_1	

This name is used to call the printer from the OPOS application.





(4) To check the printing status in the specified range, select the "Do Checked Block Printing" checkbox.

Click "Accept".

GPOS POSPrinter Configuration	×
Device Name: Star TSP100 Cutter (TSP143)_	.1 51mm
Logical Device Names	
Star TSP100 Cutter (TSP143)_1_1	Add New Delete
Checked Block Printing	
	Accept Cancel

4.7.3. Adding a Cash Drawer

• When no control object is registered:

"Not Selected" is selected in the 'Control Object Registration' field.

(1) Click "Add New".

OPOS CashDrawer	
Control Object Registration	
Not Selected	-
	Add New
	Configure

(2) The following dialog box appears. Enter the name of the cash drawer to be added, and click "OK".

Add OPOS CashDrawer device	×
Please enter the new OPOS CashDrawer device name	OK Cancel
Star TSP100 Cutter (TSP143)_1	



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(3) The cash drawer is added, and "OPOS CCO (OPOS common control object)" is selected in the 'Control Object Registration' field.

Click "Apply Changes" to register the new cash drawer.

OPOS CashDrawer	
Control Object Registration	
OPOS CCO	-
Star TSP100 Cutter (TSP143)_1	Add New
	Delete
	Configure

• When "OPOS CCO" or "Star CO" is registered as a control object:

"OPOS CCO" or "Star CO" is selected in the 'Control Object Registration' field.

(1) Click "Add New".

<When "Star CO" is selected>

OPOS CashDrawe	r		
Control Object Registration			MIL
Star CO	>	-	
			Add New
			Delete

(2) The following dialog box appears. Enter the name of the cash drawer to be added Click "OK" to add the new cash drawer.

Add OPOS CashDrawer device	×
Please enter the new OPOS CashDrawer device name	OK Cancel
Star TSP100 Cutter (TSP143)_1	

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(3) The cash drawer is added.

Click "Apply Changes" to register the new cash drawer.

OPOS CashDrawer	
Control Object Registration	AMIL
Star CO	-
Star TSP100 Cutter (TSP143)_1	Add New
	Delete
	Configure

• When a non-Star control object is registered:

"Others" is grayed out in the 'Control Object Registration' field.

(1) Click "Add New".

OPOS CashDrawer	
Control Object Registration	
Others	-
	Add New
	Delete
	Configure

(2) The following confirmation dialog box appears.

To register the common control object (OPOS CCO), click "Yes", and proceed to step (3). To use a non-Star control object, click "No", and proceed to step (4).







(3) The following confirmation dialog box appears to check with you if you want to delete the currently registered control object.

To continue, click "Yes".



Notes: Once a control object is deleted, it cannot be recovered.

(4) The following dialog box appears. Enter the name of the cash drawer to be added. Click "OK".

Add OPOS CashDrawer device	×
Please enter the new OPOS CashDrawer device name	OK Cancel
Star TSP100 Cutter (TSP143)_1	

(5) When the cash drawer is added and the control object is changed to "OPOS CCO (OPOS common control object)", "OPOS CCO" is selected in the 'Control Object Registration' field.

Click "Apply Changes" to register the new cash drawer.

OPOS CashDrawer	
Control Object Registration	
OPOS CCO	-
Star TSP100 Cutter (TSP143)_1	Add New
	Delete
	Configure

Notes:

If a Star cash drawer is used with a non-Star control object, it may not run normally. If this occurs, register "OPOS CCO (OPOS common control object)" we recommend.



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4.7.4. Configuring a Cash Drawer

Click "Configure" in the OPOS CashDrawer window to specify a logical device name for a target cash drawer.

When necessary, you can configure cash drawer operations.

(1) Select a target cash drawer, and click "Configure".

OPOS CashDrawer	
Control Object Registration	
OPOS CCO	-
Star TSP100 Cutter (TSP143)_1	Add New
	Delete
	Configure
	Check Health
	Sample Application

(2) The following window appears. Click "Add New", and enter the name.

Click "Configure" to decide the specified device name.

This name is used to call the cash drawer from the OPOS application.

	📢 OPOS CashDrawer Configurati	ion 📃	
	Device Name: Star TSP100 Cutter (T	[SP143)_1	
	Logical Device Names		
		Add New Delete	
	Settings Settings Status I Active Drawer Number	Cathorna	
	Activation Pulse Width Post Activation Pause	CashDrawer 1 200ms 200ms V	
		Accept Cancel	
(3) Cash drawer opera	tion setting and after		



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(3) Configure cash drawer operations.

■ Status

Selecting the "Status" checkbox notifies the open-close state of the cash drawer. If the "Status" checkbox is not selected, it will not be possible to notify the open-close state of the cash drawer.

Notes:

This function is available only when the selected cash drawer supports the open-close detector switch.

Active

Set this item to fit the features of the open-close detector switch of the target cash drawer.

If the open-close detector switch is opened while the cash drawer is opened, select the "Active" checkbox.

If the open-close detector switch is closed (shorted) while the cash drawer is opened, clear the "Active" checkbox.

■ Drawer Number

Select the number of the cash drawer.

■ Activation Pulse Width

Specify the power distribution time of cash drawer 1.

Post Activation Pause

Specify the delay time of cash drawer 1.

ME MO For cash drawer 2, the power distribution and delay times are fixed to 200 msec.

4.7.5. Delete

The "Delete" button allows for the removal of either a POS printer device or a cash drawer. Simply select the desired device and click the "Delete" button to remove it from the OPOS registry. A delete confirmation dialog will be displayed before the device is actually deleted.





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4.7.6. Check Health

The "Check Health" button performs a system check to ensure that the printer is connected and working properly under OPOS. After the initial check, a sample receipt will be printed to show the printer is printing with its full capability.

Bold (<esc> bC) StarMicronics</esc>	
Underline (<esc> #uC) <u>StarMicronics</u></esc>	
Reverse video (<esc> rvC) StarMicronics</esc>	
Single high & wide (<esc> 1C) StarMicronics</esc>	
Double wide (<esc> 2C) StarMicronics</esc>	
Double high (<esc> 3C) StarMicronics</esc>	



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4.7.7. Sample Application

The sample application performs some demonstration printing but also serves to educate the operator on the capabilities of the TSP100 futurePRNT in an OPOS application.



To begin the sample application, first select the device from the drop-down menu. Next follow the steps below:

- 1. Click "Open" to open the OPOS device.
- 2. Click "Claim" to claim the device for the sample application's use.
- 3. Click "DeviceEnabled (True)" to enable the device for printing.

Click any or all of the following buttons to print the respective sample:

OPOS Properties Print – Prints a list of the available OPOS properties and whether or not they are supported by the TSP100 futurePRNT.

OPOS CharacterSet Print – Prints tables of each of the available OPOS character sets.

OPOS Methods Print – Prints a list of the supported OPOS methods.

OPOS ESC Sequences Print – Prints a list (with examples) of the supported ESC sequences.

Sample Print – Prints a sample of the typical point of sale receipt.

To exit the sample application, follow the steps below:

- 1. Click "DeviceEnabled (False)" to disable the device in the application.
- 2. Click "Release" to make the device available to other OPOS applications.
- 3. Click "Close" to close the connection between the sample application and OPOS.

Finally, click "Exit" to close the sample application.



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4.8. JavaPOS[™] Installation <Star Line mode only>

The JavaPOS printer driver is included with the Windows driver installation. However, before it can be used with a JavaPOS application, the printer must be registered. If a cash drawer is connected to the printer, the cash drawer must also be registered. Registration of the printer and cash drawer is accomplished through the configuration utility.

File		Help(<u>H</u>)	
<u>(</u>)	Information		
ß	General Settings	JavaPOS Settings	star
620	Star Cloud Services	Create JavaPOS XML Registry File	
<u></u>	ECO Settings		
•?	Print Tests	Load JavaPOS XML Registry File	
0	OPOS	POSPrinter	
۲	JavaPOS		Add New
2			Delete
	Serial Ports		Configure
80 89	Image List		Check Health
0	Logos & Cropping		
_	Text Processing	CashDrawer	
and the second	Text Processing		Add New
	Barcodes		
1/2	Journal		Delete
V	Vertical Mount		Configure
			Check Health
F	Printer Font		
		Apply Changes	Close

The "JavaPOS XML file" is required to register and configure printer and cash drawer.

First, click "Create JavaPOS XML Registry File" to create a JavaPOS XML file. If the JavaPOS XML file resides, click "Load JavaPOS XML Registry File" to load the JavaPOS XML file.

JavaPOS Settings	star
Create JavaPOS XML Registry File	
Load JavaPOS XML Registry File	

Then, to register printer and cash drawer, execute the steps shown in the following page.



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4.8.1. Add a New Printer Device

Click "Add New" next to the POSPrinter textbox

Enter a logical name for your JavaPOSTM printer device in the resulting dialog.

OSPrinter	
	Add New
	Delete
	Configure
	Check Health
Add JavaPOS Device	×
Please enter the new device name.	ОК
	Cancel
Star TSP100 Cutter (TSP143)_1	

4.8.2. Configure a Printer Device

Click "Configure" next to the POSPrinter textbox with the desired device highlighted.

itar TSP100 Cutter (TSP143)_1	Add New
	Delete
	Configure
	Check Health
JavaPOS Printer Configuration Device Name: Star TSP100 Cutter (TSP143)_1	
Settings	
Accept	Cancel



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4.8.3. Add a New Cash Drawer Device

Click "Add New" next to the Cash Drawer textbox.

Enter a logical name for your JavaPOSTM cash drawer in the resulting dialog.

CT.	
	Add New
	Delete
	Configure
	Check Health
Add JavaPOS Device Please enter the new device name.	OK Cancel
Star TSP100 Cutter (TSP143)_CashDrawer_1	

4.8.4. Configure a Cash Drawer Device

Click "Configure" on the right of the text box in the JavaPOS CashDrawer window to configure cash drawer operations.



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K JavaPOS CashDrawer Configurati	on
Device Name: Star TSP100 Cutter (TSP	143)_CashDrawer_1
Settings	
✓ Status✓ Active	
Drawer Number	CashDrawer 1
Activation Pulse Width	200ms 🔹
Post Activation Pause	200ms 💌
	Accept Cancel

Status

Select the "Status" checkbox to enable monitoring of the compulsion switch if the cash drawer supports it.

Notes:

This function is available only when the selected cash drawer supports the open-close detector switch.

■ Active

Select the "Active" checkbox to choose whether the "open" setting of the compulsion switch is recognized as an open or closed cash drawer.

Drawer Number

Choose whether the selected Cash Drawer is recognized as Cash Drawer 1 or Cash Drawer 2.



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Activation Pulse Width

Select how long the signal to open the cash drawer will be sent.

Post Activation Pause

Select how long the pause between cash drawer open signals will be.

MEMO For cash drawer 2, the power distribution and delay times are fixed to 200 msec.

4.8.5. Deleting a Printer or Cash Drawer

Click "Delete" on the right of each text box to delete a target printer or cash drawer.

- (1) Select the printer or cash drawer to be deleted, and click "Delete".
- (2) Before deletion is executed, the following confirmation dialog box appears. To continue, click "Yes".



This will delete the selected printer or cash drawer.



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4.8.6. Check Health

Click "Check Health" next to each text box to perform a system check about whether the printer or cash drawer is connected normally or it is working properly under JavaPOS.

After the initial printer check, the results of all printer functions are printed on a sample receipt. If the initial check succeeds, the following window appears. (The following window displays the check health result of the printer.)



Notes:

The check health function is not available in the 64-bit Java Runtime Environment. RUN the below sample program to test JavaPOS functionality.

* The location of the Java Sample Program is different for Windows 32-bit and 64-bit systems.

Installer Location for Windows 32-bit Environments:

Program Files\StarMicronics\TSP100\Software\20160301\JavaPOSExamples

Installer Location for Windows 64-bit Environments:

• 64-bit Java Operation Environment:

Program Files\StarMicronics\TSP100\Software\20160301\JavaPOSExamples

• 32-bit Java Operation Environment:

Program Files(*x*86)*StarMicronics**TSP100**Software*\20160301*JavaPOSExamples*





ME MO Refer to the following information for setting the environment variables when using JavaPOS.

- 1. At the Windows Start menu, right-click Computer, and then select Properties.
- 2. The System dialog box appears.

Click Change settings.

- 3. At the System Properties dialog box, click the Advanced tab, and then click Environment Variables.
- 4. Select Path in the System variables list, and then click Edit.
- 5. At the Edit System Variable dialog box, add the following path in the Variable value box.

< Your JDK install folder > i bin

(Example: "c:¥Program Files¥Java¥jdk1.6.0_18¥bin")

- 6. Click the OK button to close the Edit System Variable dialog box.
- 7. Click the OK button to close the Environment Variables dialog box.
- 8. Click the OK button to close the System Properties dialog box.



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4.9. Seral Port (Star Serial Port Emulator)

This function generates a virtual serial port (COM port).

Using this function allows you to use the TSP100U/TSP100PU/TSP100GT/TSP100ECO with the USB interface equipped, the TSP100LAN/TSP100IIIW/TSP100IIILAN with the Ethernet interface equipped and the TSP100IIIBI with the Bluetooth interface equipped using applications for a serial printer.

Print data must be sent to a virtual serial port on a one-document basis. If print data is divided into many parts for sending, the print speed will slow down compared to when sending on a one-document basis. This specification has been changed from version 5.0.

To use an ETB command in a virtual serial port, set "Automatic Retry" to "Disabled" in General Settings. For more information, refer to "4.3.2 General Settings".

WE MO When activated in the Star Line mode, the port created by clicking "Add Port" is registered as a port in the Star Line mode. When activated in the ESC/POS mode, the port created by clicking "Add Port" is registered as a port in the ESC/POS mode.

د 💦	Star Micronics TSP100 Conf	iguration (Star Line Mode)	— X —
File	(<u>F)</u> View(<u>V</u>) ECO(<u>E</u>) H	elp(<u>H</u>)	
Í	Information		-11-2-24
ß	General Settings	Serial Ports	star
62	Star Cloud Services	STA IN	
2	ECO Settings	Virtual Serial Ports	for the second
•2	Print Tests	Virtual Serial Port Name:	A
0	OPOS		Add Port
9	JavaPOS		Modify Port
	Serial Ports		Delete Port
	lange lint		Check Health
	Image List		
•	Logos & Cropping	Serial Port Emulator Service:	
di ka	Text Processing	Status: Stopped	Start
	Barcodes	Startup Type: Manual	Stop
1	Journal		
7	Vertical Mount		2
F	Printer Font		
		Apply Changes	s Close



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4.9.1. Creating a Virtual Serial Port

The procedure for creating a virtual serial port varies depending on the model you are using and the firmware version of the printer.

- For TSP100ECO (firmware version 2.0 or later) ,TSP100GT (firmware version 2.0 or later) and TSP100IIIBI
 - (1) Click "Add Port".

Virtual Serial Port	Name:
	Add Port
	Modify Port
	Delete Port
-	Check Health

(2) The following window appears.

Enter a virtual serial port name, and select whether to stop or continue printing after an error has occurred. Then, click "OK".

🜠 Input Port Name	×
Virtual Serial Port Name:	ОК
Error Action	Cancel
Stop printing	Timeout (5 - 3600)
Ontinuous printing	600 (sec)

■ Virtual Serial Port Name

Enter the name of the output destination port of the currently used POS application. (Example: If the output destination port is named COM3, enter 'COM3'.)

■ Error Action

If "Continuous printing" is selected, data will be held when a recoverable error such as paper out has occurred in a virtual serial port to be added. When the port is recovered from an error in the specified time-out period, a print job will be continued from the position where printing has been interrupted.

If "Stop printing" is selected, a print job that was running at the time the error occurred will be ignored.

(3) Click "Apply Changes" to complete the creation of a virtual serial port.

Notes:

Multiple virtual serial ports can be created, but it is not recommended. This function is provided to hold the downward compatibility.



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- For TSP100U/PU, TSP100LAN, TSP100ECO (firmware versions earlier than firmware version 2.0), TSP100GT (firmware versions earlier than firmware version 2.0), TSP100IIIW and TSP100IIILAN.
 - (1) Click "Add Port".

Virtual Serial Port Name:	A
	Add Port
	Modify Port
	Delete Port
	Check Health

(2) The following window appears.

Enter the port name, and click "OK".

For Input Port Name, enter the name of the output destination port of the currently used POS application.

(Example: If the output destination port is named COM3, enter 'COM3'.

This port is used to erase the interrupted print data when an error is recovered.

Input Port Name	×
Please input the port name.	OK Cancel

(3) Click "Apply Changes" to complete the creation of a virtual serial port.

Notes:

Multiple virtual serial ports can be created, but it is not recommended. This function is provided to hold the downward compatibility.



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4.9.2. Configuring the Port Emulator Service

Serial Port Emulator Ser	vice:	
Status:	Running 🚺	Start
		Stop
Startup Type Man	ual 💙	

By default, the port emulator service is disabled. To use the port emulator, the service must be set to either manual or automatic operation. Automatic is the most common usage as it will start each time the system is booted. Manual operation requires that the service be started manually before it can be used. When stopping the service, make sure any applications that may be using any virtual serial ports are closed. Neglecting to do so may cause errors when starting the service again.

Notes:

When stopping the service, make sure any applications using a virtual serial ports are closed.

Neglecting to do so may cause errors when restarting the service.

4.9.3. Removing a Virtual Serial Port

Click "Delete Port" with the specific port selected to remove it from your system, then click "Apply Changes" to complete the process.



4.9.4. Check Health

Click the "Check Health" to perform the port check. This function ensures the opening and the working of the specified port.

4.9.5. SDK

A software development kit (SDK) is provided to help you install a virtual serial port.

Click "SDK" in "Documents/SDK" of the "CD auto" menu to open the folder where to store the SDK.



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4.10. Image List

The image list allows for the queuing of bitmap images (jpg, gif, bmp format) for later automatic printing. An infinite number of images can be queued at any given time for fast and easy recall during printing.

Information General Settings	₀⊞ Image List		star
Star Cloud Services	Image List	1 10	de la
CO Settings	Image1 Image2	Preview	
Print Tests	Image3 BAT Bowl		
OPOS	bus		
JavaPOS			
Serial Ports			
Image List			
Logos & Cropping			
First Processing			
Barcodes	Add New	Rename	Delete
🖉 Journal			
Vertical Mount			
F Printer Font			

4.10.1. Adding an Image

To add an image, follow the steps below:

Image1 Image2	Preview			
Image3 BAT Bowl bus				





Click "Add New" to browse for an image to add to the list.

Open							? 🛛
Look jn:	🚞 SampleImages	·	d	ø	1		
My Recent Documents	Coupon1.bmp Coupon2.bmp Coupon3.bmp Coupon4.bmp						
Desktop							
My Documents							
My Computer	File <u>n</u> ame:	Coupon1.bmp			*	(<u>O</u> pen
	Files of type:	Image Files (*,bmp;*.jpg;*.gif)			~	(Cancel
My Network		Dpen as read-only					

The following "Image Import" window appears.




Use the image importer to:

- Give your image a unique name using the Image ID Name field
- Adjust image width in 1/8 mm increments using the image width slider
- Select the preferred dithering method
- Adjust dither settings to desired image quality

Note: Each dither method offers different adjustment options. For best results it is recommended to experiment with the settings to find which setting works best for any particular image.

After adjusting the image to your satisfaction, click "Use Image" to add the image to the image list and make it available for use with the TSP100 futurePRNT's Logos and Cropping utility.

4.10.2. Renaming an Image

- (1) Select an image to be renamed, and click "Rename".
- (2) The following "Rename image ID" window appears.Enter the image name, and click "OK".

This renames the target image displayed in the image list.

4.10.3. Deleting an Image

Select an image to be deleted, and click "Delete".



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4.11. Logos & Cropping

Logos & Cropping allows for the selection of images to be printed at the top of each receipt (logos) and images to be printed at the bottom of each receipt (coupons). The ability to crop a receipt for white space or logo/coupon removal can also be configured here.

(i)	Information A	elp(<u>H</u>)	
_	General Settings	Logo Printing and Cropping	<u> ଛା</u> ଦ୍ଧୋମ
62	Star Cloud Services	Logo Printing	
2	ECO Settings	Top Image List	
5	Print Tests		-
0	OPOS	Cycle	•
۲	JavaPOS	Bottom Image List	
	Serial Ports		-
_		Print All	•
11 H H H H H H	Image List		
0	Logos & Cropping	Merge Image	
<u>چې</u>	Text Processing	Select	Clear
		Include logos and coupons when merging	
_	Barcodes	Cropping	
1/2	Journal		
¥	Vertical Mount	Top Crop Length 0 Bottom Crop Length 0	mm
F	Printer Font		
	Printer Font	Bottom Crop Length 0	m



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4.11.1. Logo Printing

The following shows the setting required to print an image on a receipt.

op Image List	
	Add
	Delete
	Cycle
ottom Image List	Add
ottom Image List	Add
ottom Image List	
ottom Image List	Delete
ottom Image List lerge Image	Delete



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■ Top image setting

Print the selected image at the top of a receipt.

- (1) Click "Add" next to the "Top Image List" text box.
- (2) Select the desired image from the image list registered in "4.10.1 Adding an Image", and specify the image printing position in Alignment.

💅 Select an Image			×
Please select ar	n image and cli	ck on 'Use'	
Image 1	(576mm x 400mm)	Preview 20% OFF Any Drink when purchased with a	
		Mega Burger!	
Alignment	💽 Centre	Right	
		Use Cancel	

- (3) Click "Use".
- (4) Multiple images can be specified in the image list.

When specifying multiple images, select "Cycle" or "Print All" as a printing method.

Top Image List			
	Delete	e –	
	Cycle Print All	~	
	Print All		
	Cycle		

Selecting "Cycle" prints the specified images in sequence.

Selecting "Print All" prints the specified image at the top of each receipt.



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■ Bottom image setting

Print the selected image at the bottom of a receipt.

- (1) Click "Add" next to the "Bottom Image List" text box.
- (2) Select the desired image from the image list registered in "4.10.1 Adding an Image", and specify the image printing position in Alignment.

🕺 Select an Image	X
Please select an image and clic	k on 'Use'
Image 1 (576mm x 400mm)	Preview
	Any Drink when purchased with a Mega Burger!
Left O Centre	O Right
	Use Cancel

- (3) Click "Use".
- Multiple images can be specified in the bottom image list.
 When specifying multiple images, select "Cycle" or "Print All" as a printing method.
 Selecting "Cycle" prints the specified images in sequence.
 Selecting "Print All" prints the specified image at the bottom of each receipt.



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■ Merge image setting

Print the selected image in the background of a receipt.

- (1) Click "Select" in the 'Merge Image' field.
- (2) Select the desired image from the image list registered in "4.10.1. Adding an Image".



- (3) Click "Use".
- (4) Select the "Include logos and coupons when merging" checkbox to apply the selected merge image to the entire printing area.





4.11.2. Logo Cropping

Specify the top and bottom crop lengths of a receipt.

Using this function performs printing while leaving the blank spaces specified with the top and bottom crop lengths.

Cropping		1
Top Crop Lengt	h 0	mm
Bottom Crop Lengt	h ⁰	mm

This function is available when not printing the top and bottom images that are pre-specified in a higher-level application. Using this function allows you to ignore unnecessary printing without changing the setting of a higher-level application.



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4.12. Text Processing

The Text Processing configuration panel allows for setting options that enable the TSP100 to detect certain "Text Keys" and modify each receipt based on them. This panel also allows for configuring how the TSP100 futurePRNT will detect the end of page so that receipts can be properly buffered and modified in full.

(i) Information	^ p	
General Settings	Text Proc	essing sta
🖓 Star Cloud Services	Text Triggers	n all here
ECO Settings	Text Keys	Configuration for "sample"
Print Tests	sample	sample
OPOS		1252 (Windows Latin 1) -
JavaPOS	0	Replace with alternate text
Serial Ports		Change Merge Setting
_		 Disable Merging Change the merge image
		Select
Logos & Cropping		Change Coupon Settings
Text Processing	Add Key	Disable Coupons Add Multiple Coupons
Barcodes	Delete Key	Add Single Coupon
🕢 Journal	Page end detection	Select
Vertical Mount	Cut or Feed to Tearb	
F Printer Font	Number of li	



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4.12.1. Text Triggers

In order to modify receipts based on their contents, Text Keys that will serve as triggers must be inputted.

1 Click the "Add Key" button to input a new Text Key.

ext Triggers	1	0	
ext Keys	Configural	tion for "TSP100"	
rsp100		TSP100	
		1252 (Windows L	atin 1)
	Repla	ce with alternate te	xt
	Chang	ge Merge Setting	
	O Di	sable Merging	
	O	nange the merge ima	age
	Ima	age	Select
	Chang	ge Coupon Settings	
		sable Coupons	
Add Key	👸 🗛	d Multiple Coupons	
	A 4	dd Single Coupon	
Delete Key	0 -		

2 When satisfied with the contents of the Text Key, click "OK" to add it to the Text Key list.

Add a new text key	
Please enter the new text key.	OK Cancel
TSP100	



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- 3 The default character code is 1252 (Windows Latin 1). If you cannot do a search or the replaced character string has become corrupted, change the character code as necessary.
- * See Windows 1252 Code Table in "4.16 Printer Font".

Text Keys	Configuration for "TSP100"
TSP100	TSP100
	1252 (Windows Latin 1)
	Beplace \$ 858
	1252 (Windows Latin 1) 932 (ShiftJIS)
	Change M Simplified Chinese (GB2312) Disabl Traditional Chinese

4 With the proper Text Key selected, Configuration options are enabled. The functionality of these options are explained below.

Text Proc	essing	sta
Text Triggers		
Text Keys	Configuration for "TSP100"	
TSP100	TSP100	
	1252 (Windows	
	 Change Merge Setting Disable Merging Change the merge i 	mage
	Image	Select
	Change Coupon Setting	js
Add Key	 Disable Coupons Add Multiple Coupo 	ns
Delete Key	Add Single Coupon	
	Image 1	Select

Replace with alternate text

With this option enabled, it is possible to replace the selected Text Key with a new string. This is useful if there is an old phone number or address that needs to be changed on a legacy application that cannot be changed programmatically.

■ Change Merge Setting

With this setting enabled, it is possible to change the merge image selected in the Logos & Cropping section or completely disable merging all together for that receipt.

■ Change Coupon Settings

With this setting enabled, it is possible to add a coupon to the bottom of the receipt or disable printing of coupons all together for that receipt.





Depending on the option that you select, the printer performs one of the following operations.

Add Multiple Coupons:

Multiple coupons are added. The number of coupons that are added equals the number of text keys that are detected.

Add Single Coupon:

When multiple text keys are detected, only a single coupon is added for multiple copies of the same graphic data.

Disable Coupons:

If text keys that have this option selected are detected, coupons are not added even if other coupon addition text keys are detected in the same receipt.

Note:You cannot switch between the Add Multiple Coupons and Add Single Coupon settings using different text keys.

The option that you specify for the last coupon addition is the one that is enabled. The Change Coupon Settings are processed for each page.

Coupon printing example

Text key settings:

Text Keys	Select Image
Apple	Image 1
Banana	Image 2
Orange	Image 2
Peach	Disable Coupons

Print results:

[Add Multiple Coupons]







[Add Multiple Coupons or Add Single Coupons]

Apple Banana Peach Orange



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4.12.2. End Page Detect

It is possible to change how the TSP100 futurePRNT detects the end of the receipt.

Cut or Feed to Tearbar Commands	^
Form Feed Command	~

■ Cut or Feed to Tearbar Commands

Select this option if the TSP100 futurePRNT should treat the "Cut" command as a signal that the receipt has ended.

Form Feed Command

Select this option if the TSP100 futurePRNT should treat a Form Feed command as a signal that the receipt has ended.

Note: In the page end detection function, the "Form Feed" command is available only in the Star Line mode, and not in the ESC/POS mode.

■ Consecutive Line Feeds

Select this option if the TSP100 futurePRNT should treat a configurable number of line feeds as a signal that the receipt has ended. Enter the number of line feeds for the trigger in the ecutive Line Feeds" textbox.





4.13. Barcodes

**	Star Micronics TSP100 Co	nfiguration (Star Line Mode)	X
Fi	le(<u>F)</u> View(<u>V</u>) ECO(<u>E</u>)	Help(<u>H</u>)	
C	Information		-lles we (
æ	General Settings	Barcode Settings	star
ଜ	Star Cloud Services	Barcode Options	
2	ECO Settings	ITF Bearer Bars	Not Rendered 🔹
•2	Print Tests	UPC-A Guard Bar Length	Do Not Extend 👻
0	OPOS	EAN-13 Guard Bar Length	Do Not Extend 👻
0	JavaPOS	CODE39 Guard Bar Length	Do Not Extend 💌
	Serial Ports	CODE39 Character Set	Extended 💌
	Image List		
0	Logos & Cropping		
A	Text Processing		
)III	Barcodes		
7	Journal		
V	Vertical Mount		
F	Printer Font	T	
		Apply Ch	nanges Close

Printing of barcodes can be accomplished using any of three methods. The preferred method is to print barcodes using control codes by programming directly to the printer. The second method is to print barcodes using the embedded printer font for the barcode. The final method is to print barcodes using a barcode font that resides on the host PC. Printing via control codes or using the embedded printer font offers the best and most consistent quality and legibility. Printing barcodes using barcode fonts (typically TrueType Fonts) can produce lackluster results if not configured properly.

When printing barcodes, the following settings can be applied to modify the appearance of the printed barcode.



4.13.1. ITF Bearer Bars

Bearer bars help to insure that a barcode is not misread by preventing partial scanning.

Barcode Options	
ITF Bearer Bars	Not Rendered 🗸 🗸 🗸
UPC-A Guard Bar Length	Not Rendered Rendered (prevent partial scans)
Interleaved 2 of 5 (ITF)	Interleaved 2 of 5 (ITF)
ITF Barcode without Bearer Bars I	TF Barcode with Bearer Bars

4.13.2. UPC-A Guard Bar Length

Guard bars act as reference points for the scanner to aid in proper reading of the barcode.





01234567890 UPC-A Barcode without Guard UP Bars Extended Bar

01234567890 UPC-A Barcode with Guard Bars Extended 2 mm





4.13.3. JAN/EAN-13 Guard Bar Length

Guard bars act as reference points for the scanner to aid in proper reading of the barcode.

EAN-13 Guard Bar Length CODE39 Guard Bar Length	Do Not Extend
JAN/EAN-13 	JAN/EAN-13
	AN/EAN-13 Barcode with Guard Bars Extended 2 mm

4.13.4. CODE39 Guard Bar Length <Star Line Mode Only>

Guard bars act as reference points for the scanner to aid in proper reading of the barcode.

CODE39 Guard Bar	Length Do Not Extend	~
	Do Not Extend	
	0.5mm	
	1mm	
	1.5mm	
	2mm	

CODE39	Standard
	012345678901

CODE39 Barcode without Guard Bars Extended

CODE39 Standard

CODE39 Barcode with Guard Bars Extended 2 mm



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4.13.5. CODE39 Character Set <Star Line Mode Only>

Specify the character set for CODE39 barcode. Selecting "Standard" sends only Code39 standard code data. Selecting "Extended" sends all code data. The default is "Standard".

CODE39 Character Set	Standard
	Standard
	Extended



4.14. Journaling, and Printing of Multiple Customized Copies

Use this page to set up journaling and multi-copy printing.

File(F)	View(<u>V)</u> ECO(<u>E</u>) ormation	Help	o(<u>H</u>)			
	eneral Settings		Journal a	and Multi-	Сору	<u> </u> ଆର୍ଥନ
Ga Sta	ar Cloud Services					
e EC	O Settings		Multi-Copy	4	6	
Pri	nt Tests		Automatic Mu	Itiple Copies		
OF	POS		First Copy	Second Copy	Third Copy	Fourth Copy
🎯 Ja	vaPOS		Enable			
📼 Se	rial Ports		Header Image		Select	Clear
na Ima	age List		Footer Image			
<u>o</u> Lo	gos & Cropping		Merge Image		Select	Clear
Ja Te	xt Processing		Bowl		Select	Clear
🔳 Ba	rcodes		Electronic Jo			
况 Jo	umal	11				
r Ve	rtical Mount		Enable Journ	al		View Journal
F Pri	nter Font	Ŧ				
					oly Changes	Close



4.14.1. Multi-Copy

Select the "Automatic Multiple Copies" checkbox when copying a receipt separately from the master. This function is helpful when issuing a receipt as a shop's or customer's copy.

Automatic Mu	Itiple Copies		
First Copy	Second Copy	Third Copy	Fourth Copy
Enable			
Header Image			
		Select	Clear
Footer Image			
		Select	Clear
Merge Image			
		Select	Clear

You can print up to four copies, and specify the header, footer, or merge image for each copy. Furthermore, you can only select the images that are pre-registered in "4.8.1 Adding an Image".

This function is not available when the "Enable" checkbox is not selected.



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4.14.2. Journal

A journal is a function that saves printed data.

To use this function, select the "Enable Journal" checkbox.

Electronic Journal	
Phable Journal	View Journal

Follow the steps below to display and print saved data.

- (1) Click "View Journal".
- (2) The following Journal window appears.

Click "Search" to search for the saved data.



(3) The following dialog box appears. Enter the date to start searching, and click "OK".

Enter Start Search Date	
Please enter start search date of Journal data.	OK Cancel
9/14/2005	



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(4) The following dialog box then appears.

Enter the date to end searching, and click "OK".

This will search for the data printed in the specified period when the journal function is enabled.

Enter End Search Date	
Please enter end search date of Journal data.	Cancel



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(5) Dates will appear as shown in the following window.Click a desired date to check data details in the preview screen. If you wish to print an image, click "Print".

🖣 Journal			X
Date 9/14/2005 9/14/2005 9/14/2005 9/14/2005 9/14/2005 9/14/2005 9/14/2005 9/14/2005	Time 10:32:57 AM 10:33:00 AM 10:33:00 AM 10:33:03 AM 10:33:05 AM 10:38:57 AM 10:31:31 PM 2:00:50 PM 2:01:19 PM 2:23:22 PM 4:43:40 PM	Preview Stat HOME CENTER	STORE #A47 09/14/05 04:49 PM
		0103050	QTY
		0660463	Cell Phone 1 80.20
		1324370	Portable Phone 1 51.42
• 	earch	3364111	Answ. Machine 1 113.12
1	Print	1410053	Ttalian Tile 10 🗹



Journal print data is saved into the following folder.

<System Drive>\Star\TSP100\Journal

Note: When the driver utility application is updated from future PRNT CD 5.5 or earlier, the stored data for canceled printing is transferred to the above folder. If data has not been transferred to the above folder, please check the following folder.

> Hard Disk Drive:\User\< Folder for logged-on user name >\APPData\ Roaming\Star\TSP100\Journal





4.15. Vertical Mounting



If you are setting the printer upright or mounting it on the wall, check this checkbox to invert the printing. If the button is checked, receipts are printed bottom-to-top so that they are easier to present correctly to the customer.







4.16. Printer Font <Star Line mode only>

You can convert device fonts of the printer into a standard Windows font for printing. Also, you can increase the default 24-dot character height to 35-dot for printing. Click the "Printer Font" tab on the left side of the window.



Notes:

- 1. This function is available only in the Star Line mode, and not in the ESC/POS mode.
- 2. Conversion is possible only if the text before the conversion uses device fonts. Text using a True Type font cannot be converted.
- **3.** Even if different types of device fonts are used before conversion, they will all be converted to a single, selected font.
- 4. Conversion is possible only into the characters supported by the Windows 1252 code (see the table on the next page).





Windows 1252 Code Table

					Wii	ndov	ws-1	252	CF	P125	52)					
	x0	x1	x2	х3	x4	x5	x6	x7	x8	x9	хA	хB	xC	хD	хE	хF
0x	NUL	SOH	STX	ETX	EOT	ENQ	ACK	BEL	BS	ТАВ	LF	VT	FF	CR	SO	SI
1x	DLE	DC1	DC2	DC3	DC4	NAK	SYN	ETB	CAN	EM	SUB	ESC	FS	GS	RS	US
2x	SP	!	"	#	\$	%	&	'	()	*	+	,	-		/
3x	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
4x	@	А	В	С	D	Е	F	G	н	Ι	J	К	L	М	Ν	0
5x	Р	Q	R	S	Т	U	V	W	Х	Y	Z	[١]	^	_
6x	`	а	b	с	d	е	f	g	h	i	j	k	Ι	m	n	0
7x	р	q	r	s	t	u	v	w	х	у	z	{	Ι	}	~	DEL
8x	€		,	f	"		†	‡	^	‰	Š	(Œ		Ž	
9x		"	,	"	"	•	-	—	~	тм	Š	>	œ		ž	Ÿ
Ax	NBSP	i	¢	£	¤	¥	+	§		©	а	«	-	SHY	®	-
Bx	٥	±	2	3	,	μ	¶	•	د	1	0	»	1⁄4	1⁄2	3⁄4	i
Cx	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
Dx	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß
Ex	à	á	â	ã	ä	å	æ	Ç	è	é	ê	ë	ì	í	î	ï
Fx	ð	ñ	ò	ó	Ô	õ	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ

Notes:

If a character other than those listed above is used, it will be converted into a space character, which will not appear in print.



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4.17. Virtual TCP/IP Ports <TSP100LAN / TSP100IIIW / TSP100IIILAN Only>

By setting up virtual TCP/IP ports, you make it possible for your applications to directly designate TCP/IP sockets.

Virtual ports are registered under the operating mode under which they are generated. Virtual ports created under Star Line mode are registered as Star Line ports; those created under ESC/POS mode are registered as ESC/POS ports. Note that Star Line mode and ESC/POS mode cannot use identical port numbers.

Star Micronics TSP100 Con	figuration (Star Line Mode)
File(<u>F)</u> View(<u>V</u>) ECO(<u>E</u>) H	Help(<u>H</u>)
🔣 General Settings 🏾	
Star Cloud Services	Virtual TCP/IP Ports Stor
CO Settings	A CONTRACTOR
Print Tests	Virtual TCP/IP Ports
OPOS	Virtual TCP/IP Port Number
JavaPOS	Add Port
Serial Ports	Delete Port
Image List	Check Health
Logos & Cropping	
Text Processing	TCP/IP Port Emulator Service:
I Barcodes	
Vr. Journal	Status Stopped Start
🔀 Journal	Startup Type Manual
Vertical Mount	
F Printer Font	
Virtual TCP/IP Ports	
	Apply Changes Close

Notes: To direct output to the virtual port, the application must designate both the IP address (for the PC on which this software is installed) and the corresponding port number (as added above).



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4.17.1. Creating a Virtual TCP/IP Port

Use the following procedure to create a virtual TCP/IP port.

1. Click Add Port.

Virtual TCP/IP Port Number	
	Add Port
	Delete Port
	Check Health

 At the following dialog, enter the output port number used by the application. (If the output port number is 9100, for example, enter "9100".) Then click [OK].

Input Port Number	
Please input the port number.	OK Cancel
9100	

3. Click the [Apply Changes] button to create the port.

Notes:

Multiple virtual TCP/IP ports can be created, but it is not recommended. This function is provided to hold the downward compatibility.



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4.17.2. TCP/IP Port Emulator Service Setting

Select the **Startup Type** for the emulator service.

To enable use of the emulator service, set the **Startup Type** to either **Manual** or **Automatic**.

TCP/IP P	ort Emulator	Service:		
	Status	Stopped		Start
	Startup Type	Manual	~	Stop
(Automatic Manual		
		Disabled		

If you select **Automatic**, the port emulator service will start automatically when the system starts up. If you select **Manual**, the service will not start until you click the **[Start]** button.

Notes:

Before stopping the service, make sure that you have closed all applications that are using virtual TCP/IP ports.

If you stop the service while an application is still running, you may get an error the next time you try to start it.

4.17.3. Deleting a Virtual TCP/IP Port

Select the port that you wish to delete, and then click **Delete Port**.

When the following dialog appears, click Yes.



Next, click the **Apply Changes** button to complete the deletion of the port.

4.17.4. Health Check

Click the [Check Health] button to check that the selected port is working correctly.



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4.18. Print Job Routing (Write Printer) < ESC/POS Mode Only>

Click the "Write Printer API" tab in the left pane of the window.



When printing in the ESC/POS mode, use one of the following methods.

- Select the "Enable ESC/POS Routing" checkbox on "Print Job Routing".
- Specify a serial port in the ESC/POS mode. (Refer to "4.9. Serial Port".)
- Specify a virtual TCP/IP port in the ESC/POS mode. (Refer to "4.18. Virtual TCP/IP Port".)

If the "Enable ESC/POS Routing" checkbox is not selected while any serial port or virtual TCP/IP port is not specified, data is printed in the Star Line mode; therefore, you will not be able to obtain the desired printing result.



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5. USB Serial Number Setting Tool

Use the USB Serial Number Setting Tool to switch the settings of the USB serial number to enabled or disabled.

If the USB serial number is enabled, the printer can be recognized as the same printer even when connected to different USB ports on the PC or tablet. This prevents multiple printer queues being created.

When replacing a printer due to repairs etc., it is possible to continue to use the settings (printer queue) prior to replacement by setting the same USB serial number as the used printer.

5.1. Setting a USB Serial Number

 Using the Windows Start menu.
 Select "Programs, All Programs or All Apps" - "StarMicronics" - "USB Serial Number Setting Tool".

StarMicronics ^			Mi Lo
Configuration Utility TSP100 New	е		Ins Ne
LAN & Bluetooth Setup Tool New	Microsoft Edge	Photos	Ne
Uninstall TSP100		Partly Cloudy	
USB Serial Number Setting Tool New	S	55° ^{64°} 49°	(
	Clause Descious		DL

(2) Select a printer to be set from the list of connected USB printers, and then click [Configure USB Serial Number].





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(3) The window for the USB Serial Number Setting Tool is displayed. Set the changed details, and then click [Apply].

TSP100IIIU

Acquire the values set to the printer to display them. The factory default setting is "Current Serial Number", and it is set to the same value as the product ID. The current USB serial number is entered into "New Serial Number" as the initial value.

- If changing the USB serial number, enter a character string of 8 or 16 digits (available characters: 0-9, A-Z) into "New Serial Number".
- Select the "Use Serial Number" checkbox to make the USB serial number valid.

🜠 Configure USB Serial No	umber	×
Current Serial Number New Serial Number 🗹 Use Serial Number	2550716120410051 12345678	
USB Serial Number : Cap *In case of blank, it will n	ital alphanumeric character. (8 or 16 digits) ot be changed.	
Reload	Apply	

Except TSP100IIIU

As the current value cannot be acquired for models other than TSP100IIIU, a test print is performed at the same time the window is displayed. Check the printed "USB-ID" value for the current USB serial number set to the printer.

- If changing the USB serial number, enter a character string of 8 digits (available characters: 0-9, A-Z) into "New Serial Number".
- Select the "Use Serial Number" checkbox to make the USB serial number valid.

🜠 Configure USB Serial Number	×
Current Serial Number New Serial Number 12345678 Use Serial Number	
USB Serial Number : Capital alphanumeric character. (8 digits) *In case of blank, it will not be changed. This Printer can't get current value. Please check it on printed contents. Reload	>





(4) Click [OK].

Confirm	:	×
i Apply?		
ОК	Cancel	

(5) The following message will appear if the rewrite is successful. **Turn OFF the printer to apply the changes.**





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6. Guidelines for Printing Documents

 \circ There is no need to set paper margins with this driver.

Set all margins to 0.

• This driver supports 4 predefined custom paper sizes and user-defined paper sizes. Feel free to use user-defined sizes as needed.

6.1. Important Information about Microsoft Word

Word 97 and later versions do not work correctly with the device fonts.

To enable correct use of device fonts when working with these versions of Word, make settings as follows.

■ Notes for Using Microsoft Word 2007

(1) Click the Office Button (1), and then click the "Word Options" button. Select "Advanced, and click "Layout Options".

Word Options		? <mark>- x</mark>
Popular	Prompt before saving Normal template iii	^
Display	Always create <u>b</u> ackup copy	
	Copy remotely stored files onto your computer, and update the remote file when saving	
Proofing	Allow background saves	
Save	Preserve fidelity when sharing this document:	
Advanced	Save smart tags as XML properties in Web pages	_
Customize	Save form data as delimited text file	
Add-Ins	Embed linguistic data	
Aud-Ins	Embed smart tags	
Trust Center		_ 111
Resources	General	
	Provide feedback with sound	
	Provide feedback with <u>a</u> nimation	
	Confirm file format conversion on open	
	Update automatic links at open	
	Allow opening a document in Draft view	
	Allow background open of web pages	
	Enable background repagination	
	Show add-in user interface errors	
	Mailing a <u>d</u> dress:	
	Eile Locations Web Options Service Options	
		E
	Compatibility options for:	- 11
	Lay out this document as if created in: Microsoft Office Word 2007 💌	
	Layout Options	
	OK C	ancel



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Popular	Lay out <u>f</u> ootnotes the way Word 6.x/95/97 does	^
Display	Lay out <u>t</u> ables with raw width	
Uspidy	Print body text before header/footer	
Proofing	Print <u>colors</u> as black on noncolor printers	
Save	Select entire field with first or last character	
	Show hard page or column breaks in frames	
Advanced	Split apart page break and paragraph mark	
Customize	Substitute <u>fonts</u> based on font size	
	Suppress extra line spacing at <u>b</u> ottom of page	
Add-Ins	Suppress extra line spacing at top of page	
Trust Center	Suppress extra line spacing at top of page the way Word 5.x for the Macintosh does	
Resources	Suppress extra line spacing the way WordPerfect 5.x does	
Resources	Suppress Space Before after a hard page or column break	
	Swap left and right borders on odd facing pages	
	Treat \" as "" in mail merge data sources	
	Truncate <u>f</u> ont height	
	Underline tab character in numbered lists	
	Use cached paragraph information for column balancing	
	Use larger small caps the way Word 5.x for the Macintosh does	
	Use line-breaking rules	
	Use Normal style for bulleted or numbered lists	
•	Use printer metrics to lay out document	
	Use Word 2002 gable style rules	
	Use Word 2003 <u>hanging-punctuation rules</u>	
	Use Word 2003 indent rules for text next to wrapped objects	
	Use Word 2003 kerning pair rules	
	Use Word 2003 table autofit rules	
	Use Word 6.x/95 border rules	-
	Use Word 97 line-breaking rules for Asian text	E
	Wrap lines the way Word 6.0 does	
	Wrap trailing spaces to next line	
		*

(2) Select the "Use printer metrics to lay out document" check box. Then click the "OK" button.

(3) Open Word's File menu, and select Save to save the document.



When the page settings are changed, the option settings may return to the original settings.

6.2. Restrictions and Cautions

- 1. Use only one type of device font per line.
- 2. Do not print device fonts and graphics on the same horizontal line. This will cause the difference between the displayed document and the printed document.
- 3. When you use the barcode device fonts, characters will appear only on the computer's display. You can see the printed result will be a barcode. By this difference, the length of the displayed document and the printed document can be different slightly.
- 4. Control device font is not used for character printing.



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7. Guidelines for Using Ethernet Environment

7.1. Manually Setting a Temporary IP Address

You can use the following procedure to set a temporary IP address for a TSP100LAN printer. Use of a temporary address will allow you to connect to a printer that does not yet have an IP address setting.

- Open a Command Prompt window.
 At the Windows Start menu, select [All Programs] → [Accessories] click [Command Prompt].
 (If using Windows 10, [All Apps] → [Windows System] click [Command Prompt].)
- 2. At the command prompt, use the arp command to set a temporary IP address and a MAC address.



Use the following commands to set the temporary IP address for the printer.

- 1. arp -d printer's_temporary_IP_address
- 2. arp -s printer's_temporary_IP_address printer's_MAC_address
- 3. **ping** printer's_temporary_IP_address
- 4. arp -d printer's_temporary_IP_address

Example: To set a temporary IP address of 192.168.32.55 arp -d 192.168.32.55 arp -s 192.168.32.55 00-11-62-00-03-4D ping 192.168.32.55 arp -d 192.168.32.55

How to find your printer's MAC address

You can find your printer's MAC address on the test print sheet. MAC address is listed under "Network Configuration" on that sheet. To print a test sheet, turn on the printer while holding the Feed button.

Notes:

The temporary IP address that you set here will be cleared when the printer's power is switched off. You should therefore immediately proceed to set a regular IP address for the printer.



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7.2. Manually Setting an IP Address (Using the TSP100LAN Telnet Utility)

You can use the telnet command to connect directly to a TSP100LAN printer.

- Begin with the following preliminary steps to ensure that Telnet is enabled.
 - 1. From the [Start] menu, open the [Control Panel].
 - 2. Select [Programs and Features].
 - 3. Under [Tasks], select [Turn Windows features on or off].

📀 🗢 🖻 « Programs and F	eatures - 4 Search	<u>ک</u>
Tasks View installed updates Get new programs online at Windows Marketplace	Uninstall or change a program To uninstall a program, select it from the list and the "Uninstall", "Change", or "Repair".	n click
View purchased software (digital locker)	🖓 Organize 🗸 📗 Views 🗸	0
Turn Windows features on or of	Name Adobe Reader 8.1.0 Control of the first state	Publisher Adobe Systems Microsoft Corpo Realtek Semicor

4. When the User Account Control dialog appears, click [Continue].





5. If [Telnet Client] is not yet checked, place a check next to it. Then click [OK].



6. If you had to add the check in the previous step (if **Telnet Client** was not already checked to begin with), you must now restart your computer.





To manually set the IP address, proceed as follows.

1. Open a Command Prompt window.

At the Windows Start menu, select [All Programs] \rightarrow [Accessories] click [Command Prompt].

(If using Windows 10, [All Apps] → [Windows System] click [Command Prompt].)

2. Use the **telnet** command to connect to the printer you wish to set.



Example: > telnet <u>192.168.1.84</u>

<u>IP address</u> of the printer you wish to set.

Notes:

You cannot connect to a printer that does not have an IP address. If necessary, set a temporary IP address for the printer before using telnet.

For instructions, refer to Section 7.3, "Manually Setting a Temporary IP Address."

3. Log into the printer as "root".

The factory default setting for the password is "public". (If the password has been changed, use the current password.)

Telnet 192.168.1.84	-	×
Welcome to TSP100III TELNET Utility. Copyright(C) 2015 Star Micronics co., Ltd.		~
<< Connected Device >> Device Model : TSP143IIILAN (STR_T-001) MAC Address : 00:11:62:00:05:AF		
login: root password: *****		



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- 4. The following menu appears.
 - 1) IP Parameters Configuration
 - 2) System Configuration
 - 3) Change Password
 - 96) Display Status
 - 97) Reset Settings to Defaults
 - 98) Save & Restart
 - 99) Quit
 - **Enter Selection:**

Enter the number corresponding to the action you wish to carry out.

	X
Hello root === Main Menu === 1) IP Parameters Configuration 2) System Configuration 3) Change Password 95) Miscellaneous 96) Display Status 97) Reset Settings to Defaults 98) Save & Restart 99) Quit Enter Selection:	^

 When you have finished making settings, select 98 (Save and Restart) and then select either 1 (Save & Restart device and Configuration printing) or 2 (Save & Restart Device). This will save the settings and reset the printer.



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8. Restrictions and Cautions

Below is the restrictions and cautions for this version. Please read through and have well understanding before use.

Emulation: Star Line mode

- Barcode Printing when Horizontal Compress & Two Color Printing is selected. In this case, please do not print Barcode and Text within the same line. Barcode maybe printed on the texts.
- Barcode Printing when Vertical & Horizontal Compress is selected.
 Barcode will not be compressed vertically & horizontally.
 Text and Bit Image printed on the same line will not be compressed either.
- Barcode Printing when Vertical & Horizontal Compress and Copy function is selected. In this case, the Barcode on the copied receipt will be compressed and will be unreadable by Barcode Scanner.

Please do not use the Barcode on the copied receipt. (The Barcode on the original receipt can be read by Barcode Scanner)

- Code 39 Barcode(Option: Extended)

In this version, Extended setting for Code 39 Barcode cannot be used. Code 39 Barcode will not be printed on the appropriate position.

- Print via Printer Driver

You cannot use the following functions of the TSP100 Configuration Application when "NoCut" is set in the printer driver property settings.

- Copy function
- Vertical Monut Mode
- On demand printing

- The "Do Checked Block Printing" funciton in OPOS and JavaPOS is not supported with the TSP100LAN.

Emulation: ESC/POS mode

- ITF Barcode

Please do not print HRI characters when the Bearer Bars is selected as "Rendered" for ITF Barcode. Depending on the barcode width, Barcode may not be printed correctly.

 Bit Image Printing when 48 columns for print column is selected.(Default 42 columns) Under this setting, below command handles up to 42 columns (68mm)
 <ESC> "*" / <GS> "v" / <GS> "/" Please do not send Bit Image data larger than 68mm in width.

- Cash drawer #2 function

Driven ON/OFF timeing for Cash Drawer #2 is fixed to 0.2 sec.



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Emulation in common

- Text Triggers in Text Processing

When you register multiple text keys, character strings that you can use when you select "Replace with alternate text" have the following limitations.

- You cannot use strings that have already been used.
- You cannot use substrings of strings that have already been used.
- Change Merge Setting in Text Processing

When Two Color Printing is selected, Marge Image cannot be printed.

Cannot use "Change Merge Setting" in Text Processing and "merge" function in "Logo & crop" window, together.

Please check printing result, when use "disable merge" function.

- Logos & Cropping

If multiple pages are printed by Virtual Serial Port or WritePrinterAPI etc., not through Printer Driver, when Cropping is set, the print order of the pages maybe changed.

- Printer Paper Size Setting

After upgrade from software version 7.1 or older, printer paper size may be selected"Not Available". In such case, please select appropriate paper size again.

- Vertical Mount and Header & Footer for Multi-Copy

When Vertical Mount Mode & Multi-Copy are set valid, the image data set for Header and Footer will be printed in the following position.

When Vertical Mount is disabled: Left

When Vertical Mount is enabled : Right

- Logo Printing with Left & Right Margin Setting

Left & Right Margin Setting is not valid for Logos.

- Off Line Mode with Virtual Serial Port.

Even the Printer is in Off-Line Mode, the application can send Print data to Virtual Serial Port. In this case it is not guaranteed that the print data will be correctly printed. Please check Printer status before sending print data to Virtual Serial Port.

- Error during printing with Virtual Serial Port.

When Printer Error, such as Paper End, happens during printing with Virtual Serial Port. Part of the print data maybe lost.

If such happens, please resend the print data from application.

It is advised that the paper to be refilled before Printer detects PE Error.

- Virtual Serial Ports

In the following development environments, all functions cannot be used.

- Visual Basic 6.0 : MSComm control

- .NET Framework : SerialPort component

Please check printing result, when use "Serial Ports".



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- Time out value using Virtual Serial Port

Depending on the setting of the Virtual Serial Port, the time out value will be different. Refer to the SDK of the Virtual Serial Port in this CD to change it.

- Virtual Serial Ports The Virtual Serial Port Emulator is not suppoprted by OPOS.
- Virtual Serial Ports Service

You cannot control multiple services individually (start/stop) from one PC. All Virtural Serial Port Services will start/stop together.

- Saving Journal Data

The maximum length which can be stored for the Journal data is 2 meters as receipt length. Please do not store Journal data longer than 2 meters.

- Saving On Demand Data

The maximum length which can be stored for the On Demand data is 2 meters as receipt length. Please do not store On Demand data longer than 2 meters.

- Trigger for On Demand Message

The Trigger for On Demand Message is Cut Command.

However, please be careful for sending Print data in the following cases.

- Virtual Serial Port

- WritePrinterAPI

When multiple Cut Commands are sent in the one Print data, the last Cut Command will be a Trigger for On Demand message.

When "NO" is selected and reprint the receipt data stored in PC, the Cut actions will not happen in between the stored receipts but at the end of the last receipt.

- Peripheral Control when On Demand is set valid

When On Demand is set enabled, even select "No" (not print data), peripheral commands are executed.

And in case multiple peripheral commands are set, peripheral commands are sent altogether immediately.

Therefore, it is recommended to send Peripheral commands independently.

(If peripheral command is send independently, no Pop Ups for On Demand will appear and the commands are executed instantly.)

- Lost Data in On Demand

When On Demand function is used in combination with such as OPOS, JavaPOS, Virtual Serial Port, or WritePrinterAPI, and while On Demand Message is popped up, Paper End or Cover Open Error occurs, this print data will be lost.

It is advised that the paper to be refilled before Printer detects PE Error.



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- Preview and On Demand

When On Demand is in use, Preview function cannot be used.

- Ethernet Setup Tool

After generating the printer queue using the Ethernet Setup Tool, the "Complete" message may appear behind other windows.

Star recommeds to close other windows first before using the Ethernet Setup Tool.

- Using Multiple functions at the same time

The following functions cannot be used simultaneously:

- Windows Printer Driver
- OPOS
- JavaPOS
- Virtual Serial Port
- -Virtual TCP/IP Port
- Write Printer API

* If it is necessary to use multiple funcitons, finish printing via one method before beginning via another.

- Multiple usage of Virtual TCP/IP Ports

When sending print data to multiple Virtual TCP/IP ports from one PC, the print speed will be slow. If one printer is powered OFF, the other printer will stop printing for approximately 10 seconds.

- Virtual TCP/IP Ports Service

You cannot control multiple services individually (start/stop) from one PC. All Virtural TCP/IP Port Services will start/stop together.





9. Release History

Rev. No.	Date (Month/Day/Year)	Contents
Rev. 1.2	09/30/2005	Multi language support
Rev. 2.0	12/26/2005	Added ESC/POS Mode and Multi-copy
Rev. 2.3	08/26/2006	Added QR code, corrected Text Processing function, added Printer Font function
Rev. 2.4	01/20/2007	Added menu function for TSP100 Configuration Utility
Rev. 3.0	06/28/2007	Installation Manual (for Windows Vista) New addition (separate volume)
Rev. 3.1	06/18/2009	Added Control Object Registration function
Rev. 4.0	03/01/2010	Windows 7 support
Rev. 5.0	02/01/2011	Integration of futurePRNT series, addition of font B PDF417, Standardization of ECO function manual, support of OPOS version 1.13, and support of JavaPOS version 1.13
Rev. 5.1	03/01/2011	Function addition of a part of OPOS
Rev. 5.2	10/26/2011	Function addition of a part of Text Processing
Rev. 5.3	10/18/2012	Windows 8 support
Rev. 5.4	06/12/2013	Added How to check the MAC address
Rev. 5.5	11/10/2013	Function addition of a part of TSP100LAN Ethernet setting tool
Rev. 6.0	06/10/2015	Added Star Cloud Services support Windows 8.1 support
Rev. 6.1	9/16/2015	Added Windows 10 support
Rev. 6.2	10/30/2015	Added ESC/POS support for Star Cloud Services
Rev. 7.0	12/24/2015	Added TSP100IIIW, TSP100IIILAN Function addition of TSP100LAN Ethernet setting tool Windows XP and Windows Vista end of support







Rev. 7.1	6/27/2016	 Added TSP100IIIBI Function addition of TSP100LAN & Bluetooth setting tool (Added Bluetooth support)
Rev. 7.2	1/13/2017	- Added Micro Receipt function support for Star Cloud Services
Rev. 7.3	3/17/2017	 Added TSP100IIIU Function addition of USB serial number setting tool





http://www.starmicronics.com/support/