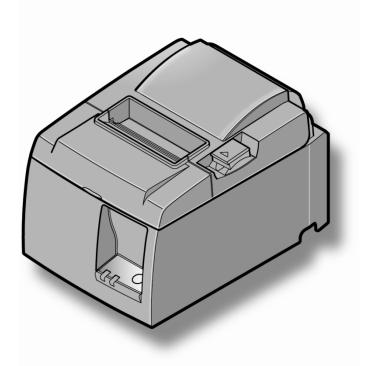


Software Manual



Applicable Models

- TSP100IIIU
- TSP100IIIBI
- TSP100IIILAN
- TSP100IIIW
- TSP100ECO

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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)
- Windows 8.1 * 32-bit and 64-bit (except WindowsRT 8.1)
- · Windows 7 32-bit and 64-bit
- * Limitation for Windows 10 / 8.1
 - Star original Printer Driver Function (e.g. Logo Setting) can not be changed from "Windows UI". However, once the setting of its function is changed from "Desktop mode", these function can be used on "Windows 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 "Windows 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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- Bluetooth[®] word mark and logo are registered trademarks owned by Bluetooth SIG, Inc.
- IOS is a trademark/registered trademark of Cisco, Inc. in the US and other countries, and is used on a licensed basis.

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 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.

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

📕 🔁 🛄 🖛	Application Tools tsp100_v		-	- 🗆 X	
File Home Share	View Manage			~ 🕐	
$\leftarrow \rightarrow \checkmark \uparrow$ \blacktriangleright > This PC > Downloads > tsp100_v > $\checkmark \circlearrowright$ Search tsp100_v700					
This PC	Name	Date modified	Туре	Size	
Desktop		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	
	Readme_Jp.txt	12/14/2015 5:42 PM	Text Document	30 KB	
🔜 FI (L:)	🗾 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 4	17.1 KB				







<< Models supplied with CDs >>

- (1) Insert the CD-ROM supplied with the TSP100 futurePRNT into the CD-ROM drive of your computer.
- (2) Toast pop up will be appeared after CD-ROM is set. After that, click [Run Autorun.exe].

	DVD RW Drive (M:) TSP100
	Choose what to do with this disc.
DVD RW Drive (M:) TSP100_V7.30a Select to choose what happens with his	Install or run program from your media
disc.	Run Autorun.exe Published by STAR MICRONICS CO.,LTD.
^ 図 記 (1)	Other choices
	Open folder to view files File Explorer
	Take no action





(3) Then, the following window will appear.

Click "Installation" on the menu.

TSP100 ₅∡ futurePRNT				S	tar
Installation	TSP100 √ futurePRNT			www.futi	urePRNT.com
Installation		No	w available	for FREE	
Documents/SDK	G	AG	IRec	eipts	S
Contact Star			afe and reliable dig		
Browse CD					
Star Cloud Services		FEB.		,000, *	
Exit	Windows	OPOS	JAVAPOS"	Linux	Mac
) Ver.			STA	R MICRONIC	CS CO,, LTD.

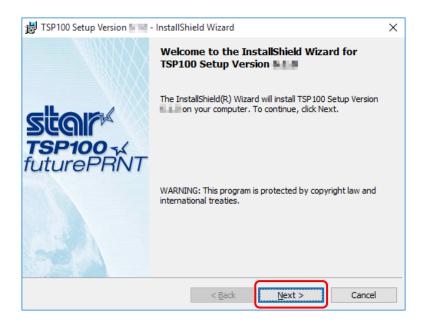
(4) Read this software license agreement carefully. If you agree to the terms of this license, click "I Accept".

TSP100 - ∢ futurePRNT	star
	Installation Agreement
Installation	Please read the following license agreement carefully.
Documents/SDK	Software License Agreement This Agreement made and entered into by and between you
Contact Star	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
Star Cloud Services	installing the Software, you are agreeing to be bound by this 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
<u>Exit</u>	<u>I Accept</u>
CD Ver.	STAR MICRONICS CO., LTD.

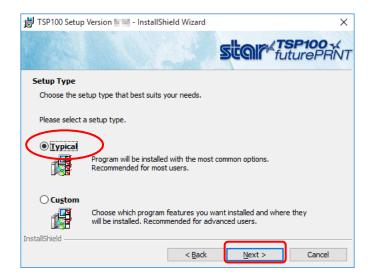
(5) The "User Account Control" window will appear. Click "Yes".



(6) Click "Next" to continue.



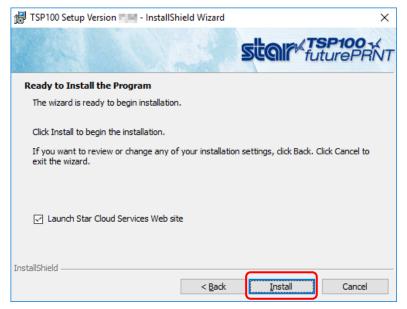
(7) Choose the "Typical" installation option to be sure that all of the TSP100 futurePRNT's options are installed and then click "Next" to continue.





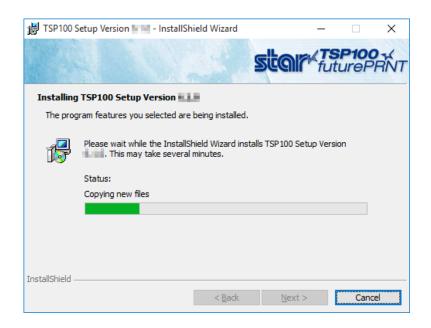


(8) Click "Install" to begin the installation process.



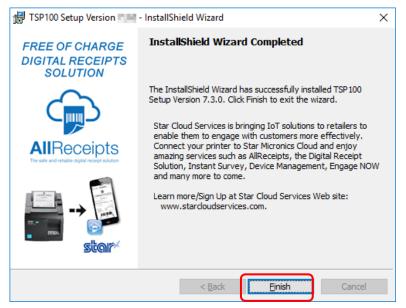
MEMO If the "Launch Star Cloud Services Web site" check box is checked (default), Star Cloud Services website will open after the installation wizard is finished.

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



TSP100 4 futurePRNT

(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 ₇ 4 futurePRNT			www.fut	urePRNT.com
Installation	TUTUREPHINT	No	w available	for FRFF	
Documents/SDK	G	-	IIRec		
Contact Star			ate and reliable dig		
Browse CD					
Star Cloud Services		ITES.			
Exit	Windows	OPOS	JAVAPOS"	Linux	Mac

- (12) The subsequent steps vary depending on the model you are using.
 - 1.2 Adding a Printer (TSPECO/IIIU)
 - 1.3 Adding a Printer (TSP100IIIW)
 - 1.4 Adding a Printer (TSP100IIILAN)
 - 1.5 Adding a Printer (TSP100IIIBI)



1.2. Adding a Printer (TSP100ECO/IIIU)

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

MEMO For information about how to load paper and connect to a computer, refer to the <u>Online</u> <u>Manual for TSP100IIIU</u> or refer to the TSP100 futurePRNT hardware manual for other models.

To view the hardware manual, select "Documents/SDK" on the "CD auto" menu, and click "Hardware Manual".

(2) Turn the printer on.

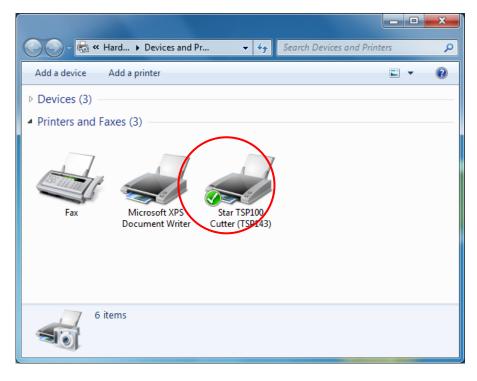
With "Plug and Play", the computer detects a new hardware product and automatically installs the printer driver.

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.





TSP100 📈 futurePRN7

1.3. 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> <u>manual (Setup - Connect Tablet/PC)</u>.

Notes: Printer addition requires computer's administrator privileges.

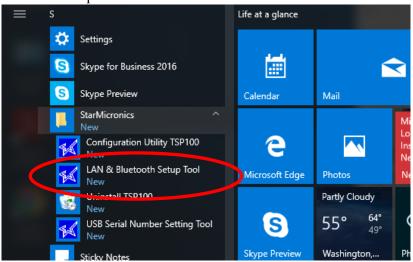
1.3.1. Printer LAN Settings

- (1) Turn the printer 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 - Connecting</u> with a <u>Tablet/PC</u>).

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



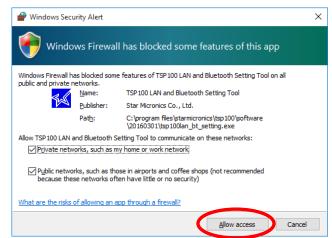
(4) "User Account Control" window will appear. Click "Yes".







(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].

	Discovery				
IP Address/COM Port 172.16.212.95 172.16.212.103	MAC Address 00-11-62-13-AF-F0 00-1D-12-BB-23-8D	Model Description TSP143IIILAN (STR_T-001) TSP143IIIW (STR_T-001)			
	Configuration				
Printer Queue					
	Check Connection (Only 1	rsp100III)			
he printer that I want isn't lis	ted				
Temporary IP Address Assignment					

MEMO 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>1.3.2</u>, <u>"Creating a Printer Queue"</u>, below.

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

🔏 TSP100 LAN / Bluetoo	oth Setup Tool Ver1.2.0.0	- 0	×	
	Discovery			
IP Address/COM Por	t MAC Address	Model Description		
170-10-010-05	00 11 02 10 AF F0	TOP1 10 LILAN (OTD_T 001	<u>→</u>	
172.16.212.103	00-1D-12-BB-23-8D	TSP143IIIW (STR_T-001)		
	Configuration			Go to <u>step 8</u>
	Printer Queue			Go to section 1.3.2.
	Check Connection (Only			
The printer that I want is		······································		
	Temporary IP Address A	ssignment		
(Create a printer queue by specify	ing the IP address		
				The second
				A Bas

If the printer you want to install is not listed in the LAN printer list, go to "When the printer is not listed".





■ 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].

¥.	TSP100 LAN / Bluetooth S	etup Tool Ver1.2.0.0		-		×	
		Discovery					
	TD 411 /001 D 1						
_	IP Address/COM Port Did not obtain	MAC Address 00-11-62-13-AF-F0	Model Descrip TSP143111LAN		r_001\	_	
	Did not obtain	00-11-02-13-AF-F0	TOP 140111LAN	i (sin_	1-001)		
						_	
						_	
						-	
		Configuration					
		Printer Queue					
		Check Connection (Only TS					
	The printer that I want isn't list	ed					
		Temporary IP Address Assig	gnment				
	Create	a printer queue by specifying	the IP address				

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

🖌 Temporary IP Address Assignment — 🗆						
If your printer did not appear in the search list, or if it doesn't have an IP address, are set in function to configure it.						
To use this function you should first run the printer's self test. Do this by holding down the printer's feed button while turning the printer on. Release it shortly afterwards.						
The second part of the self test contains information about the network card. Locate the 'MAC Addr' line and enter that sequence into the 'MAC Address' field below.						
Then enter a temporary $I\!\!P$ address for this printer. This address must be available and not already in use by another computer or device.						
To complete the assignment click the 'OK' button. After the assignment is completed you'll be taken to the printer's web based configuration system where you can make a nermanent (static) Be address assignment						
MAC Address 00 : 11 : 62 : 13 : AF : F0						
IP Address 192 . 168 . 10 . 20						
ОК	Cane	cel				

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

	🔓 🕫 🗇 TSP100III Network Utilit × + ∨						×
	\leftarrow \rightarrow O \textcircled{a}	$\leftarrow \rightarrow$ \circlearrowright \bigtriangleup \bigcirc 192.168.10.20/html/top.htm		չ≡	h	Ŀ	
	SCOF TSP100III Network Utility						^
	Home > Home	Home					
	Display Status Device Status	Device Information					
(System Access Login	MAC Address : 00:11:62:13:AF:F0					





(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		
Micro	soft Edge	
The serve from TSP1	r 192.168.1.99 is asking for your user name a 00111.	nd password. The server reports that it is
	Your user name and password will be sent u n that isn't secure.	ising basic authentication on a
8		
root		
•••••		↑
		OK Cancel

MEMO 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 recommended to change the password to start using the printer.					
OK 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].

	Home > Home	IP Parameters
	Network Configuration	Static //Following addresses are used.
<	WLAN Settings IP Parameters System Configuration	IP Address
	 System Comignation Change Password Save 	192.168.1.99 Subnet Mask
	 Set Default Display Status 	255.255.255.0
	 Device Status System Access 	Default Gateway 192.168.1.1
	> Logout	
	Manual Online Manual 	 Dynamic //Addresses are obtained from network.
		Submit Cancel



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 1.3.2</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.



• When the printer is not listed

If the printer is not listed on the printer list, for example, you are using multiple networks and you want to set up a printer that is on another network, follow the steps below to set a static IP address.

1) Click [Temporary IP Address Assignment].

	Discovery				
A 11 (000 D 1	NIG 1 1				
Address/COM Port id not obtain	MAC Address 00-11-62-13-AF-F0	Model Description			
72.16.212.103	00-1D-12-BB-23-8D	TSP143IIILAN (STR_T-001 TSP143IIIW (STR_T-001)			
Configuration					
		Je			
	Check Connection (On	ly TSP100III)			
The printer that I want isn't listed					
Temporary IP Address Assignment					

2) Enter the MAC Address and a temporary IP Address to assign, and then click [OK].

🜠 Temporary IP Address Assignment – 🗆	×	🜠 Temporary IP Address Assignment — 🗆 🗙
If your printer did not appear in the search list, or if it doesn't have an P address, use this function to configure it. To use this function you should first run the printer's self test. Do this by holding down the printer's feed button while turning the printer on. Release it shortly afterwards. The second part of the self test contains information about the network card. Locate the MAC Addr' line and enter that sequence into the 'MAC Address' field below. Then enter a temporary IP address for this printer. This address must be available and not already in use by another computer or device. To complete the assignment click the 'OK' button. After the assignment is completed you'll be taken to the printer's web based configuration system where you can make a memory (static) IP address assignment. MAC Address : : IP Address : : IP Address : : OK Cancel		If your printer did not appear in the search list, or if it doesn't have an P address, use this function to configure it. To use this function you should first run the printer's self test. Do this by holding down the printer's feed button while turning the printer on. Release it shortly alterwards. The second part of the self test contains information about the network card. Locate the 'MAC Addr' line and enter that sequence into the 'MAC Address' field below. Then enter a temporary IP address for this printer. This address must be available and not already in use by another computer or device. To complete the sasignment click the 'OK' button. After the assignment is completed you'll be taken to the printer's web based configuration system where you run make a nerroment (static) IP referess assignment. MAC Address 00 : 11 : 62 : 13 : AF : F0 IP Address 172 . 16 . 212 . 95

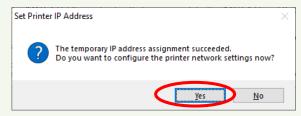
MEMO The MAC Address of the printer depending on the product. It can be checked from the [MAC Addr] that is printed when printer self-printing is performed (power is turned ON while depressing the FEED button).



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3) Click [Yes], then open the configure of the printer network settings.



4) Enter the IP Address, Subnet Mask, and click [Apply].

ų,	Configuration		_		\times
	Dynamic (DHCP)				
ſ	IP Address	172.16.21	2.95		
	Subnet Mask	255.255.2	55.0		
l	Default Gateway	172.16.21	2.254		٦J
	Multi Session				
	☑ Disconnect Message				
	Password				
	New Password				
	New Password (re-input)				
	Initialize		Apply	>	



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

5) The settings are saved in the printer, printed, and the connection settings are complete. Then proceed to <u>Section 1.3.2</u>, "<u>Creating a 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.



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		
IP Address/COM Port	MAC Address	Model Description	
172.16.212.103	00-1D-12-BB-23-8D	TSP143IIIW (STR_T-00	
	Configuration		
	Printer Queue		
	Check Connection (Only	TSP100III)	
ne printer that I want isn't li	sted		
	Temporary IP Address A	ssignment	

(2) The following dialog now appears. The dialog shows the queue name and the port name for the printer you are setting up. You can leave the queue name as it is, or you can change it 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 TSP143IIIW Cutter					
Port Name TSP100LAN_172.16.212.103						
Set as Default Printer						
Print Test Page						
	Apply					

MEMO

The following characters can be used in queue.

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

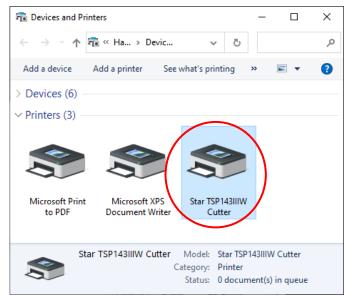




(3) Click **[Yes]** on the screen asking to confirm application. The printer queue is created. A message is displayed indicating that setup is complete. If you want to start TSP100 Configuration Utility next, click [Yes].

Confirm $ imes$	
Apply?	Complete × Printer queue setup is complete. Do you want to start the TSP100 Configuration Utility?
Yes <u>N</u> o	Yes <u>N</u> o

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





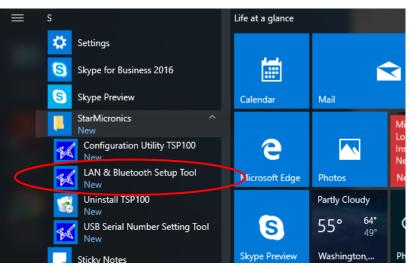
1.4. Adding a Printer (TSP100IIILAN)

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</u> (<u>Setup – Connect Tablet/PC</u>).

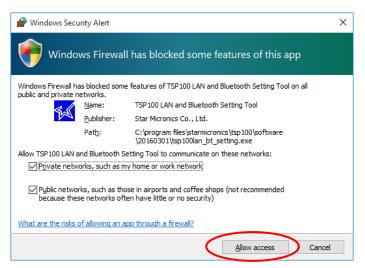
Notes: Printer addition requires computer's administrator privileges.

1.4.1. Printer LAN Settings

- (1) Turn the printer 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.



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(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].

4l	TSP100 LAN / Bluetooth S	etup Tool Ver1.2.0.0	- 🗆	\times				
		Discovery						
	IP Address/COM Port	MAC Address	Model Description					
	172.16.212.95	00-11-62-13-AF-F0 00-1D-12-BB-23-8D	TSP143IIILAN (STR_T-001) TSP143IIIW (STR_T-001)					
	112.10.212.100	00 10 12 00 20 00						
		Configuration						
		Printer Queue						
		Check Connection (Only TS	SP100III)					
	The printer that I want isn't list	ed						
	Temporary IP Address Assignment							
	Create	e a printer queue by specifying	the IP address					

MEMO 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)





(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 1.4.2</u>, "Creating a <u>Printer Queue"</u>, below.

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

	100 LAN / Bluetooth S	etup Tool Ver1.2.0.0	_	□ X		
2. 18.212.95 00-11-82-13-AF-F0 TSP143111LAN (STR_T-001) 2. 10.212.100 00 1D 12 DD 20 0D TOF 1401111 (STR_T 001) Configuration Go to step 7 Printer Queue Go to section Check Connection (Only TSP100III) orinter that I want isn't listed Temporary IP Address Assignment		Discovery				
Configuration Configuration Configuration Configuration Concect Connection (Only TSP100III) Context I want isn't listed Temporary IP Address Assignment	Address/COM Port	MAC Address	Model Description			
Configuration Go to step 7 Printer Queue Go to section Check Connection (Only TSP100III) orinter that I want isn't listed Temporary IP Address Assignment	72.16.212.95	00 10 10 00 00 00	TODA ANTINE (OTD T	0043		
Printer Queue Go to section Check Connection (Only TSP100III) orinter that I want isn't listed Temporary IP Address Assignment	2.10.212.100		10/140111# (011 <u>_</u> 1			
Printer Queue Go to section Check Connection (Only TSP100III) orinter that I want isn't listed Temporary IP Address Assignment						
Printer Queue Go to section Check Connection (Only TSP100III) orinter that I want isn't listed Temporary IP Address Assignment						
Printer Queue Go to section Check Connection (Only TSP100III) orinter that I want isn't listed Temporary IP Address Assignment						
Printer Queue Go to section Check Connection (Only TSP100III) orinter that I want isn't listed Temporary IP Address Assignment						
Printer Queue Go to section Check Connection (Only TSP100III) orinter that I want isn't listed Temporary IP Address Assignment						
Printer Queue Go to section Check Connection (Only TSP100III) orinter that I want isn't listed Temporary IP Address Assignment						
Check Connection (Only TSP100III) printer that I want isn't listed Temporary IP Address Assignment		Configuration			🔶 Go to <u>ste</u>	<u>p 7</u>
Check Connection (Only TSP100III) printer that I want isn't listed Temporary IP Address Assignment		Printer Queue			Go to sec	ction 14
orinter that I want isn't listed Temporary IP Address Assignment		Check Connection (Only T	SP100III)			
	printer that I want isn't list	*************************************				
Create a printer queue by specifying the IP address		Temporary IP Address Ass	signment			
Create a printer queue by specifying the IP address						IK
	Create	e a printer queue by specifyin	ig the IP address			C
						3
						1
and the top of the						010

If the printer you want to install is not listed in the LAN printer list, go to "<u>When the printer is not</u> <u>listed</u>".





■ 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].

ş.(TSP100 LAN / Bluetooth S	etup Tool Ve	1.2.0.0		_		×
			Discovery				
	TD Address (COM David	NAC Address	-	Madal Daaria	4.1.e.e.		
	Did not obtain	00-11-62-	13-AF-F0	TSP143111LAN	I (STR_	(-001)	
_							-
							_
		(Configuration				
		F	Printer Queue				
	The printer that I want isn't lis	ed					
[Temporary	IP Address Assig	Inment			
[Create	e a printer que	ue by specifying	the IP address			

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

<mark> 1</mark> Ten	nporary IP Address Assignment	-		Х					
If your printer did not appear in the search list, or if it doesn't have an IP address, $$\land$$ use this function to configure it.									
down	To use this function you should first run the printer's self test. Do this by holding down the printer's feed button while turning the printer on. Release it shortly afterwards.								
Loca	The second part of the self test contains information about the network card. Locate the 'MAC Addr' line and enter that sequence into the 'MAC Address' field below.								
	Then enter a temporary IP address for this printer. This address must be available and not already in use by another computer or device.								
To complete the assignment click the 'OK' button. After the assignment is completed you'll be taken to the printer's web based configuration system where you can make a nermanent (static) IP address assignment.									
	MAC Address 00 : 11 : 62 : 13 : AF	: F0							
	IP Address 192 . 168 . 10 . 20								
	ОК	Can	cel						

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 Networ	k Utilit \times + \vee				
\leftarrow \rightarrow \circlearrowright \textcircled{a}) 192.168.10.20/html/top.htm	□ ☆	☆	L B	
star	TSP100III Network	Utility			^
Home > Home	Home				
Display Status Device Status 	Device Information				
System Access	MAC Address : 00:11:62:13:AF:F0				



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(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 is from TSP100III.	your user name and password. The server reports that it	
Warning: Your user name and passwo connection that isn't secure.	ord will be sent using basic authentication on a	
8		
root		
••••••	<u>م</u>	
	OK Cancel	

MEMO 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 selected, a screen to change the password will open. After changing the password, return

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 password to start using the printer.					
ОК	Cancel				







(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].

Home > Home	IP Parameters
Network Configuration	Static //Following addresses are used.
 IP Parameters System Configuration Change Password Save Set Default Display Status Device Status System Access Logout 	IP Address 192.168.1.126 Subnet Mask 255.255.255.0 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"→"Configuration Printing"→"Restart device", and tap [Execute].

The settings are saved to the printer and printed out.



- (11) 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.



• When the printer is not listed

If the printer is not listed on the printer list, for example, you are using multiple networks and you want to set up a printer that is on another network, follow the steps below to set a static IP address.

1) Click [Temporary IP Address Assignment].

Discovery				
Address/COM Port	MAC Address	Model Description		
id not obtain	00-11-62-13-AF-F0	TSP143IIILAN (STR_T-001)		
72.16.212.103	00-1D-12-BB-23-8D	TSP143IIIW (STR_T-001)		
	Configuratio	n		
		e		
	Check Connection (On	y TSP100III)		
printer that I want isn't li	sted			
6	Temporary IP Address	Assignment		

2) Enter the MAC Address and a temporary IP Address to assign, and then click [OK].

Temporary IP Address Assignment - 🗆 🗌	Temporary IP Address Assignment -
I emplorely in Address Assignment.	If your printer did not appear in the search list, or if it doesn't have an IP address, use this function to configure it. To use this function you should first run the printer's self test. Do this by holding down the printer's feed button while turning the printer on. Release it shortly afterwards. The second part of the self test contains information about the network card. Locate the 'MAC Addr' line and enter that sequence into the 'MAC Address' field blow. Then enter a temporary IP address for this printer. This address must be available and not already in use by another computer or device. To complete the assignment click the 'OK' button. After the assignment is completed you'll be taken to the printer's websed configuration system where vou can make a permanent (static) IP address assignment MAC Address 00 : 11 : 62 : 13 : AF : F0 IP Address 172 : 16 : 212 : 95 OK Cancel

The MAC Address of the printer depending on the product. It can be checked from the [MAC Addr] that is printed when printer self-printing is performed (power is turned ON while depressing the FEED button).





3) Click [Yes], then open the configure of the printer network settings.



4) Enter the IP Address, Subnet Mask, and click [Apply].

📢 Configuration		-		×
Dynamic (DHCP)				
IP Address	172.16.212	2.95		
Subnet Mask	255.255.25	55.0		
Default Gateway	172.16.212	2.254		
☐ Multi Session ✓ Disconnect Message				
Password New Password				
New Password (re-input)				
Initialize		Apply	>	



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

- 5) The settings are saved in the printer, printed, and the connection settings are complete. Then proceed to <u>Section 1.4.2</u>, "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.



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				
Address/COM Port	MAP Address	Model Description		
172.16.212.95 179 16 919 109	00-11-62-13-AF-F0 00-10-12-00-22-00	TSP143IIILAN (STR_T-001) TSP143IIIW (STR_T-001)		
	Configuration			
	Printer Queu			
	Check Connection (Only	TSP100III)		
e printer that I want isn't li	sted			
	Temporary IP Address /	ssignment		

(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 queue name as it is, or you can change it 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].

Þ	🕻 Printer Queue		-	×
	Printer Queue	Star TSP143IIILAN Cutter		
	Port Name	TSP100LAN_172.16.212.95		
	Set as Defau	ult Printer		
	Print Test Pa	ge		
		Apply		



The following characters can be used in queue name.

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



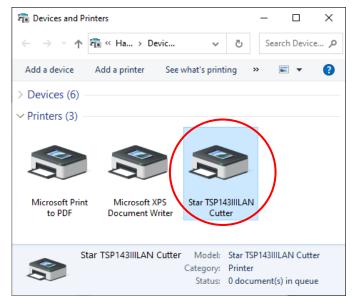


(3) Click **[Yes]** on the screen asking to confirm application. The printer queue is created. A message is displayed indicating that setup is complete. If you want to start TSP100 Configuration Utility next, click [Yes].

Confirm ×	
Apply?	Complete × Printer queue setup is complete. Do you want to start the TSP100 Configuration Utility?
Yes <u>N</u> o	Yes <u>N</u> o

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

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





1.5. Adding a Printer (TSP100IIIBI)

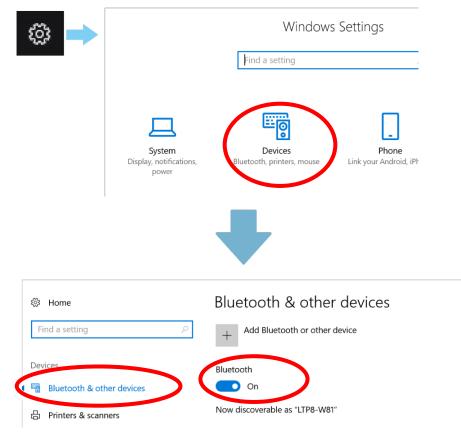
The device name displayed during pairing varies depending on the product. It can be checked from the [Dev Name] that is printed when printer self-printing is performed (power is turned ON while depressing the FEED button).

Notes: Printer addition requires computer's administrator privileges.

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

♦ Windows 10

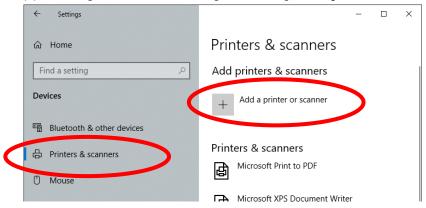
- (1) Turn the printer on.
- (2) Open [Settings] from the Windows start menu, select [Devices] [Bluetooth & other devices], and turn Bluetooth on.







(3) Select [Printers & scanners], and click [Add a printer or scanner].



(4) Select the desired device name (TSP100-XXXXX), and click [Add device]. If the device name was changed, then select the device name that it was changed to.

← Settings	– 🗆 X
ŵ Home	Printers & scanners
Find a setting	mC-Print3-C0035 Printer
Devices	TSP100-08484 Printer
Bluetooth & other devices	
日 Printers & scanners	Add device
() Mouse	TM-m30II-H_000102 Printer
📼 Typing	Printer

(5) When the device appears in "Printers & scanners", pairing is completed.

← Settings	- 🗆 X
යි Home	Printers & scanners
Find a setting	Add printers & scanners
Devices	+ Add a printer or scanner
Bluetooth & other devices	
日 Printers & scanners	Printers & scanners
() Mouse	Microsoft Print to PDF
I Typing	Microsoft XPS Document Writer
🖉 Pen & Windows Ink	TSP100-08484 Driver is unavailabl
(b) AutoPlay	

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 1.5.2 "Creating a Printer Queue"</u>.



♦ Windows 7 / 8.1

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

6		Devices an	d Printers			×
🕞 🔿 🔹 🕇 🕷	a « Hardware and Sound	d → Devices and Print	ers	v c	Search Devices and Printer	, <i>p</i>
Add a device A	dd a printer				۵ ا	. 0
			4		5	
CSR8510 A10	Dell USB Entry	PTFBAE-19	SATSUKI-PCE1		58 Optical	
Multimedia Der	Keyboard				Mouse	
 Printers (2) 	vices (1)					
Fax	Microsoft XPS					
8 ite	Document Writer					

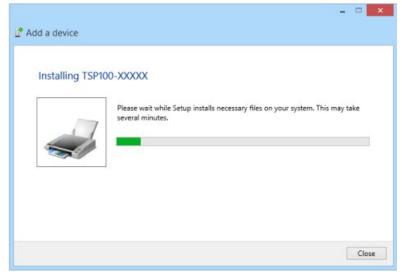
(3) Select the device name (TSP100-XXXXX) to be removed and tap or click "Next". If the device name was changed, then select the device name that it was changed to.

Choose a device or printer to Select a device	o add to this PC
421MP BAT Printer TSP100-XXXXX Printer	tsp100-58* Printer Star MicronicsB Printer
Not finding what you're looking for?	

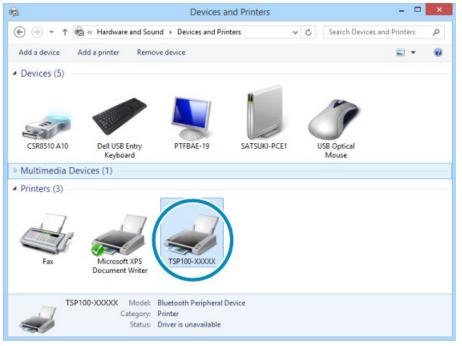




(4) Pairing is then performed.



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



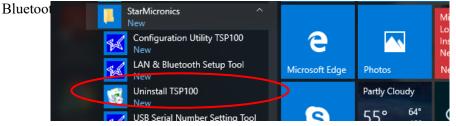
MEMO Depending on the display method, "Driver is unavailable" will be displayed, however pairing is completed.

The device name created here cannot be used for the destination specified when printing from a Windows application. Proceed to perform <u>Section 1.5.2 "Creating a Printer Queue"</u>.



1.5.2. Creating a Printer Queue

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



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

🔗 Windows Sec	urity Alert		×
💮 Windo	ows Firewa	II has blocked some features of this app	
Windows Firewall h public and private		e features of TSP 100 LAN and Bluetooth Setting Tool on all	
21	Name:	TSP 100 LAN and Bluetooth Setting Tool	
	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 Setting Tool to communicate on these networks:			
Private netv	vorks, such as r	ny home or work network	
		use in airports and coffee shops (not recommended ten have little or no security)	
What are the risks of allowing an app through a firewall?			
		Allow access Cance	4

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].

	Discovery	
P Address/COM Port	MAC Address	Model Description
172.16.212.95	00-11-62-13-AF-F0	TSP143IIILAN (STR_T-001)
172.16.212.103 COM4	00-1D-12-BB-23-8D 00-11-62-17-01-3E	TSP143IIIW (STR_T-001) TSP100-08484
	Configuration	
	Printer Queue	
	Check Connection (Only	TSP100III)
he printer that I want isn't I	isted	
	Temporary IP Address As	signment
Cm	ate a printer queue by specifyi	ng the IP address



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].

z.	TSP100 LAN / Bluetooth	Setup Tool Ver1.2.0.0	- 🗆	×	
		Discovery			
	IP Address/COM Port 172.16.212.95	MAC Address 00-11-62-13-AF-F0	Model Description TSP143IIILAN (STR_T-001)		
	COM4	00-11-62-17-01-3E	TSP100-08484_		
		Configuration			Go to Bluetooth setting (Next Page)
		Printer Queue			Go to step6
		Check Connection (Only T			
	The printer that I want isn't li	sted Temporary IP Address Ass	signment		
	Сгеа	te a printer queue by specifyin	g the IP address		



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.

Notes:

- 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.





Changing the TSP100III Printer's Bluetooth Settings

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

候 Bluetooth Configu	rat — 🗆 🗙
Device Name	TSP100-08484
iOS Port Name	TSP100
New Pairing Perm	iission
Auto Connection	
Communication D	iagnosis 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.

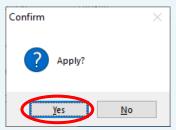
Auto Connection

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 <u>the Online hardware manual (Setup – Use App)</u>.

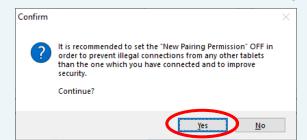
2) Click **[Yes]** on the screen asking to confirm application.





TSP100 futurePR

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



MEMO

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 "1.5.1 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 queue 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].

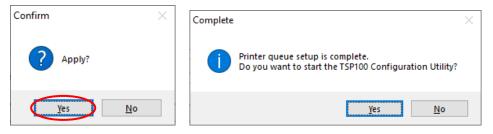
🜠 Printer Queue	-	×
Printer Queue Star TSP143IIIBI Cutter Port Name COM4:		
Set as Default Printer		
Print Test Page		
Apply		

MEMO

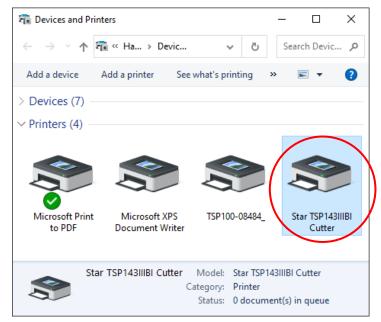
The following characters can be used in queue names. Uppercase and lowercase letters, numerals (0 to 9), hyphens, underscores, periods, spaces, and parentheses.



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



(8) In Control Panel, select "Devices and Printers".If the Star TSP100IIIBI printer is found in the window, installation is completed.





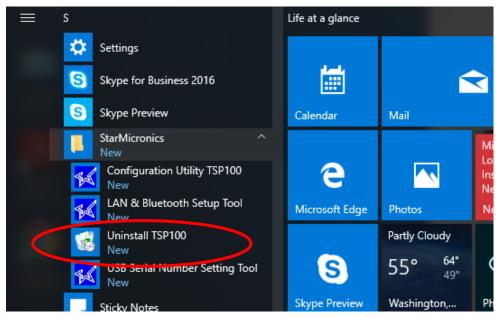
41



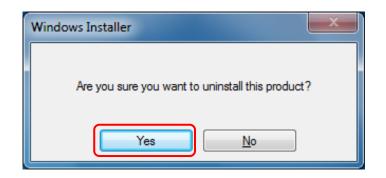


1.6. Uninstallation

- (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.



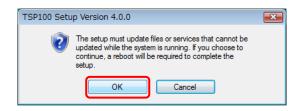


TSP100 √ futurePRNT

(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.	
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.





2. Features

2.1. Star Windows Printer Driver

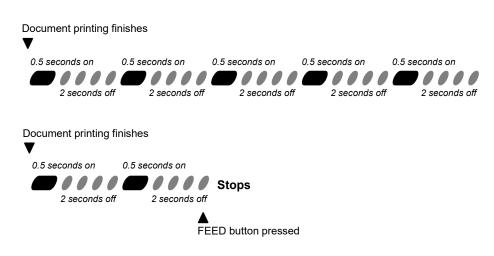
The Star Windows Printer Driver is used to apply the futurePRNT series in Windows 10, 8.1 or Windows 7. Using this printer driver allows you to handle basic printing functions in many Windows applications. It also allows you to configure graphic logo and peripheral unit (buzzers and cash drawers) settings.

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



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.





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\20171207\JavaPOSExamples

Installer Location for Windows 64-bit Environments:

• 64-bit Java Operation Environment:

Program Files\StarMicronics\TSP100\Software\20171207\JavaPOSExamples

• 32-bit Java Operation Environment:

Program Files(x86)\StarMicronics\TSP100\Software\20171207\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\20171207

Setting example:

Java–Dsmj.dllpath= "C:\Program Files\StarMicronics\TSP100\Software\20171207" application.class

2.4. Star Virtual Serial Port Emulator

This function allows you to use the TSP100ECO/IIIU with the USB interface equipped or the 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 "4.18 Print Job Routing (Write Printer)".

2.6. Star Virtual TCP/IP Port Emulator

< 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, 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 (TSP14	3) Properties		×
General	Sharing	Ports	Advanced	Color Management
Security		Device Setti	ngs	TSP100 Config
Insta	P100 Cutter (T n To Tray Assi FICTION: L Illable Option Paper Type: Re Page Cut Type Document Cut Peripheral Uni Peripheral Uni Cash Drawer 1 Buzzer 1 - On Buzzer 1 - Off Buzzer 2 - On Buzzer 2 - Off Buzzer 2 - Rep	ignment etter s <u>ecceipt</u> t Type: <u>Partial</u> t Type: <u>Partial</u> t Type: <u>Buzzer</u> t 1: <u>No Use</u> t 2: <u>No Use</u> - Pulse Width Time: <u>20 millis</u> Time: <u>20 millis</u> Time: <u>20 millis</u>	Cut 200 millisecond seconds seconds seconds	5
			ок	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



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 pulldown 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	4
	star TSP143IIILAN Cutter Device Settings	
	Form To Tray Assignment FRICTION: 72mm x Receipt	
	Installable Opti (2) Not Available	
Ч	Paper Type: 📄 51mm x 200mm	
	Document (=) 72mm x 200mm	
	Document () 72mm x 200mm Peripheral U) 72mm x Receipt	
	Peripheral U 📄 Star Thermal 3inch x Letter	
	Cash Drawer 1 - Pulse Width: 200 milliseconds	
	Buzzer 1 - On Time: <u>20 milliseconds</u>	
	Buzzer 1 - Off Time: <u>20 milliseconds</u>	
	Buzzer 1 - Repeat: <u>1</u> Buzzer 2 - On Time: <u>20 milliseconds</u>	
	Buzzer 2 - Off Time: <u>20 milliseconds</u>	
	Buzzer 2 - Repeat: <u>1</u>	
		4
	OK Cancel Apply	



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

MEMO The paper width is set as printable area.

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



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.

3				
	Print Server Properties			
	Forms Ports Drivers Security Advanced			
	Eorms on: SATSUKI-PC			
		\overline{D}		
	10x14 11x17			
5	12x11 E Save Form			
	Form name: 11x11			
	Create a new form			
	Define a new form by editing the existing name and			
4	measurements. Then click Save Form.			
	Form description (measurements)			
	Units: Metric @ English			
	Units: O <u>M</u> etric <u>English</u> Paper size: Printer area margins:			
	Width: 10.00in Left: 0.00in Top: 0.00in			
	Height: 11.00in Right: 0.00in Bottom: 0.00in			
	Change Form Settings			
	OK Cancel Apply			

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	
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	
c	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	
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	





Character	Function	
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.

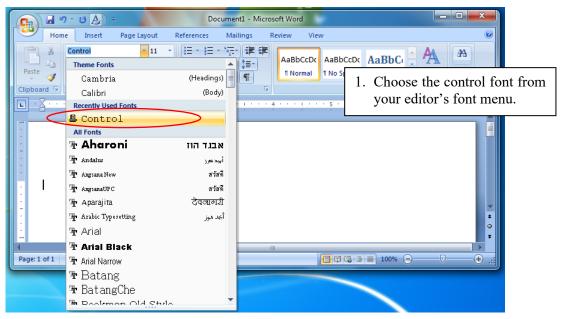




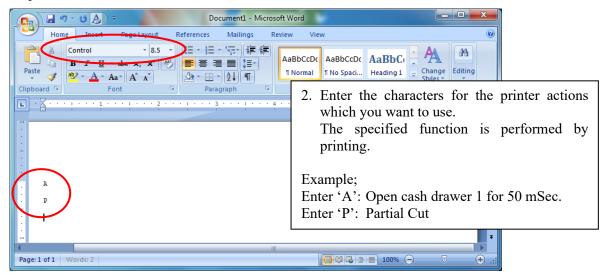
3.4.2. Control Font Usage

Usage of the Control font must be done as follows:

- Select Control Font



- Input Control Font





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



TSP100 futureP

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

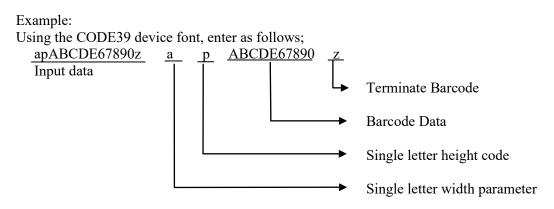
The following table is the lists of the supported barcode device fonts and usable characters.

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.



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 mm)			
r	heght: 128 dot (16	heght: 128 dot (16 mm)		
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 (1Eh)			

N/A = Not available

() numeral is dots for wide width.

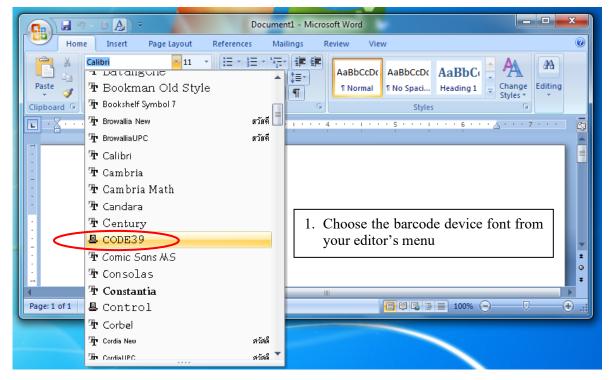




3.5.3. Barcode Font Usage

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

- Select Barcode Font







- Input Barcode font

Document1 -	Microsoft Word
Home Insert Page Layout References Mailings	Review View
CODE39 ▼ 8.5 ▼ 📴 ▼ 📴 * 📅 🛱 Paste ↓ → A → Aa → A ▲ A Clipboard 5 Font 5 Paragraph	I Normal I No Spaci Heading 1 Change Styles Editing * Styles Styles
apABCDE67890z	2. Input code. The specified function is performed by printing.
	ź O T
Page: 1 of 1 Words: 1	

<Print result sample>





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").

Each Font Function as follows;

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 $x00 - x5F$	
DATA2	Satting	x20 - x7F replace $x60 - xBF$	Output $x00 - xFF$ is possible.
DATA3	Setting 2D code data	x20 - x5F replace $xC0 - xFF$	is possible.
ESC_FONT		Output $x20 - x7F$	Output \x20 -\x7F is possible.



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 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 $A = \underset{x0A}{} x_{0A} = `*' * 1$
(2) ''	DATA1	QR Code data setting parameter 0 = x00 = (Space character) *1
(2) '012345ABCD'	ESC_FONT	2D code data
(4) 'P'	QR_CNTL	QR code printing

Description data: E2A0* 012345ABCDP

*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	\x1b\x1dyS0
M1	Set model of QR code: Model 1	\x1b\x1dyS0\x01
M2	Set model of QR code: Model 2	\x1b\x1dyS0\x02
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%)	\x1b\x1dyS1\x02
* Eh (E3)	Correct errors level H (correction rate: 30%)	\x1b\x1dyS1\x03
S1~S8	Set module size (unit: dot)	\x1b\x1dyS2 (\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 command	\x06	
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.	x1bx1dxS2	
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.	x1bx1dx1	

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

Input Data On applications (Word, VB, etc), user specified characters		Output Data Output code for printer			
<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
٤	\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
A	\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
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





Input	Input Data On applications (Word, VB, etc), user specified characters		Output Data Output code for printer			
Character	Code	ESC_FONT	DATA1	DATA2	DATA3	
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	
1	\x5D	\x5D	\x3D	\x9D	\xFD	
^	\x5E	\x5E	\x3E	\x9E	\xFE	
	\x5F	\x5F	\x3F	\x9F	\xFF	
	\x60	\x60	\x40	\xA0	_	
a	\x61	\x61	\x41	\xA1	_	
b	\x62	\x62	\x42	\xA2	-	
c	\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	\x6A	\x4A	\xAA		
k	\x6B	\x6B	\x4B	\xAB		
1	\x6C	\x6C	\x4C	\xAC		
	\x6D	\x6D	\x4C	\xAD	-	
m	\x6E	\x6E	\x4D	\xAE	-	
n	\x6F	\x6F	\x4E	\xAF	-	
0	\x0F	\x0F	\x4r \x50	\xAF	-	
p	\x70	\x70	\x50	\xB0	-	
q					-	
r	\x72	\x72	\x52	\xB2	-	
S t	\x73	\x73	\x53	\xB3	-	
t	\x74	\x74	\x54	\xB4	-	
u	\x75	\x75	\x55	\xB5	-	
v	\x76	\x76	\x56	\xB6	-	
W	\x77	\x77	\x57	\xB7	-	
X	\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	-	







Input Data		Output Data			
On applications (Word, VB, etc), user specified characters		Output code for printer			
Character	Code	ESC_FONT	DATA1	DATA2	DATA3
~	\x7E	\x7E	\x5E	\ xB E	-
	\x7F	\x7F	\x5F	\xBF	-

* Cannot be entered using a character.



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:

Private Sub Command1_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 "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.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"	$'ESC_FONT = 0x0020 - 0x007F$			
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			
Printer.EndDoc				
End Sub				

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'	n
Printer.Print "QR Code Test Print for VI	B 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"	$'ESC_FONT = 0x0020 - 0x007F$
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
Printer.EndDoc	
End Sub	





Software Manual

■ 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 = $0x0000 - 0x005F$	
Printer.Print Chr(&H2A);	' Specifies the number of barcode data bytes.	
Printer.Print Chr(&H20);		
Printer.Font.Name = "ESC_FONT" Printer.Print "1234567890"; Printer.Print.Name = "PDF417"	$'ESC_FONT = 0x0020 - 0x007F$	
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.	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" Printer.Print "http://.star-m.jp/";	$'ESC_FONT = 0x0020 - 0x007F$		
Printer.Print.Name = "PDF417"			
Printer.Print "P"	' Prints bar code data.		
Printer.EndDoc			
End Sub			



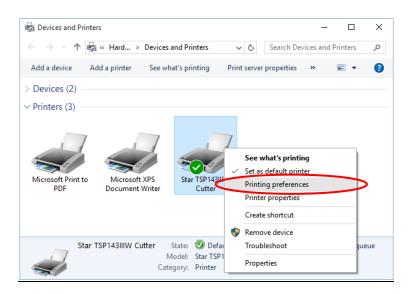
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3.7. 2-Tone Color Printing and Paper Type Settings

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.





(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

🖶 Star TSP143IIIW Cutte	r Printing Preferences	×	
Layout Paper/Quality			
Tray Selection			
Paper Source:	Automatically Select ~		
Media:	normal type paper 🗸 🗸 🗸		
Color	normal type paper 2 color paper high image stability paper		Select paper type
	Black & White Color		Specify print color
	Advanced		
	OK Cancel Apply		

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.

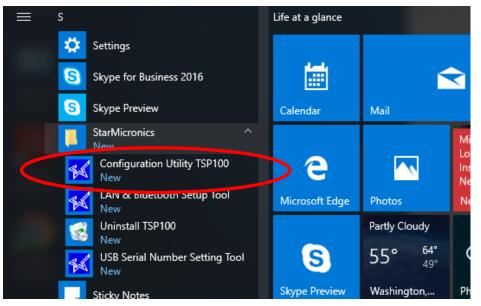
You can set up separate configurations for Star Line mode and for ESC/POS mode.

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".







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

😽 Star TSP100	Cutter (TSP14	3) Properties			×
General	Sharing	Ports	Advanced	Color Manage	ement
Security	/	Device Sett	ings	TSP100 Config)
Click on this button to launch the Configuration Application for your printer.					
	🛞 Launch Co	nfiguration Appli	cation	>	
OK 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 available 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 (TSP100IIIW)</u>", "<u>1.4 Adding a Printer (TSP100IIILAN)</u>" or "<u>1.5 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 (TSP100ECO/IIIU)</u>".

Launch LA	N/Bluetooth Setting Tool	×
1	No usb printers detected, Click ok to proceed to install LAN/Bluetooth printer.	
	OK Cancel	





(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.	
<	Star TSP143IIILAN Cutter Star TSP143IIIBI Cutter	
	Add TSP100LAN/Bluetooth OK	
	Add TSP100LAN/Bluetooth	

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

**	Select An Emulation		
	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.

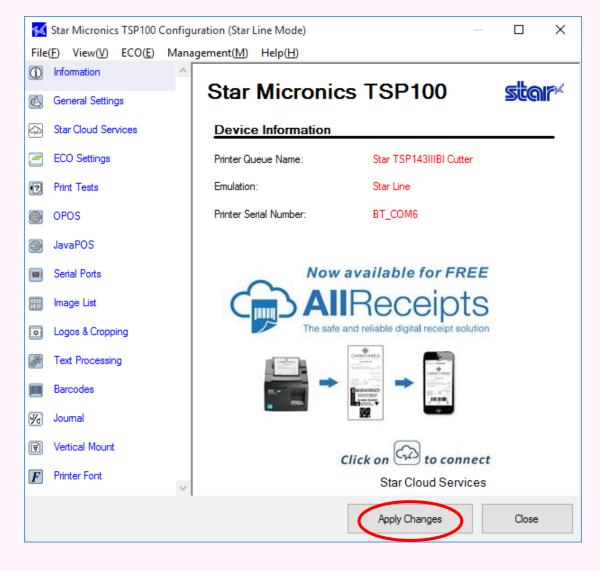




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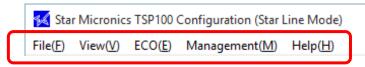
IMPORTANT: After changing any setting in the "TSP100 Configuration" window, be sure to click "Apply Changes".

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



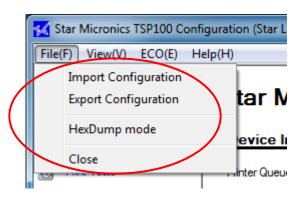


4.1. Menu Functions



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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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".





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	
Print Setting O Print (General) O Print (Dump Data) No Print	Set Please click the "Apply" button after closing this window.
Output to File	
d: [EN] Comments and Settings Satsuki Desktop Favorites My Documents Start Menu	
	Set as Default

Print [Dump Data]

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

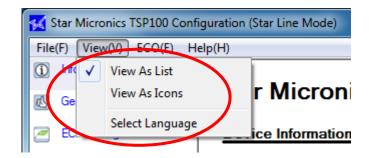
Output Dump Data to File All of the data transmitted to the printer from the computer is output as hexadecimal binary data in a file to the specified folder.

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



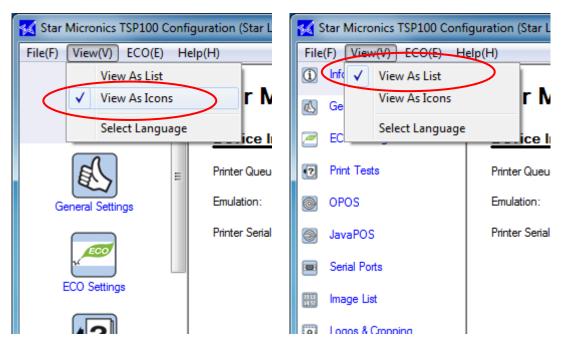


4.1.2. View



1. List display/Icon display

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

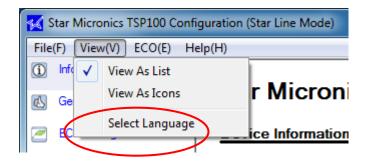


2. Language selection

The display language can be selected.

STEP 1:

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







STEP 2:

Select the language, and then click "Select".

🛢 Select Language	
English (United States) English (United Kingdom) J apanese French German Spanish Simplified Chinese Traditional Chinese Dutch Orcoatian	Select Cancel
Slovenian Ozech Russian Turkish Italian Hungarian Danish Swedish Finnish Norwegian Portuguese	lf you 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 🛛 🛛 🔀	🜠 Configuration de la Star
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.





4.1.3. ECO

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

🜠 Star Micronics TSP100 Configuration (Star Line Mode)					
File(F) View(V)	ECO(E) Help(H)				
(i) Information	Show ECO result				
General Setting	star Micronic				

1. ECO indicator setting

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



2. Check the result.

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

K ECO Indicator	
Enabled	A
	52.15% paper saved
Clear	Close

3. Clear the accumulated result.

Click "Clear" to clear the accumulated result.

K ECO Indicator		x
Enabled		ß
	0% paper saved	Givene of Buren's
	AI	翻個一
Clear	6-	Close





4.1.4. Management

🕵 Star Micronics TSP100 Configuration (Star Line Mode)	SP100 Configuration (Star Line Mode)
File(F) View(V) ECO(E) Management(M) Help(H)	CO(E) Management(M) Help(H)
Information Log output	Log output
Clone Serial Number Setting	Printer Connection Settings

(1) Log output settings

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

候 Log Output Settings				×
Log Output Enabled				
	Log Size	1	MB (1 - 100)	
Save to folder				
C:\Star\Log\TSP100Printe	erDriver∖		Browse	
Set as Default		Cancel	ОК	

(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					
hat is the Clone S	erial Number ?	2			
Product	1234567890123456				
Clone					
Clone		· diata)			
be	r : Alphanumeric charactors. (1 to 16	digits.)			
case of blank, it	will use product serial number.				
case of blank, it	will use product serial number.	Close			

Clone Serial Number:

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



TSP100 📈 futurePRNT

(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.

🜠 Printer Connection Settings		Х
Always enabled		
		011
	Cancel	OK

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.

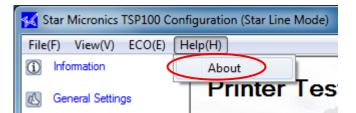
Available:

- 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



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







4.2. Information

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

14	🜠 Star Micronics TSP100 Configuration (Star Line Mode)									
E	ile	E) View(V) ECO(E)	He	lp(<u>H</u>)						
G	Star Micronics TSP100									
đ	5	General Settings								
ଜ	2	Star Cloud Services Device Information								
2	2	ECO Settings		Printer Queue Name:	Star TSP100 Cutter (TSP14	3)				
•	2	Print Tests		Emulation:	Star Line					
0		OPOS		Printer Serial Number:	57a76c360 <u>1</u>					
8		JavaPOS								
	H	Serial Ports		Now av	ailable for FREE					
H	11 22	Image List		C All Receipts						
0		Logos & Cropping			eliable digital receipt solution	8				
ð		Text Processing								
		Barcodes			ALTOREY ACTIONY ADARTY					
Ø	8	Journal								
V	1	Vertical Mount		Clic	k on 🐼 to connect					
ŀ	7]	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.

	s/	Star Micronic	s TSP100 (Configu	uration (Star	Line Mode)						\times
	File(<u>F)</u> View(<u>V</u>)	ECO(<u>E</u>)	Mana	gement(<u>M</u>)	Help(<u>H</u>)						
	i	Information		^	Cana	al Catti	ing (St	lar Li				
4	ø.	General Setting	gs		Gene	ral Setti	ing (Si		ne)		sta	r
	62	Star Cloud Ser	vices		Defau	t Text Set	ttings	171 000 171 000 171 000	10 100 20 ⁵ (100 20 ⁵ (100	*3× 		_
	2	ECO Settings					Z	Zero Styl	e Stand	ard		\sim
	2	Print Tests				Internatio	onal Char	-5050	UJA		10	~
	0	OPOS					ୁ⁄ ଘ	ode Pag	e Norma	al 25 sets	1.1.2.1	\sim
	_					C	haracter	Encodin	9 Single	Byte Charact		~ 2835
	9	JavaPOS			Defeu	Contra Contra	18 P. 10	0.		Lugary Press	(130,008 (130,008	10.00
		Serial Ports			Delau	t Print Set	Line Sp	acing	<i>it</i>			
	11 12 14 52	Image List				ALANK YOU GAR	343		4mm 100%		- m 44	~
	0	Logos & Cropp	ing			102	Print S	110' 05	High	72.	1.1	~
		Text Processin	g			341102	" the	2. 30 2	72mm			~
		Barcodes				11	utomatic int Start T	Timina	Enable	1996 W		~
	%	Journal				1		-Å	Detect Pag	je End	L 6.5%	
	¥	Vertical Mount					A.	-3	State Charles		Notio	18 482.
	F	Printer Font		\sim			4	1 cues			Las	
								Apply	/ Changes		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	132
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).

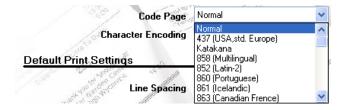
International Character Set

International Character Set	USA	*
Code Page	USA	~
Character Encoding	France Germany UK	
Default Print Settings	Denmark #1 Sweden Italy	
1 / 10 The set of the set	Spain #1	~

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



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.

Font type	Standard 🗸	22
Character space(Right)	Standard	1
and the second second	Large	

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>

0 (the default) to 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.







4.3.2. Default Print Settings

■ Line Spacing

Default Print Settings	Lusa, Production	
Line Spacing	4mm	
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-mmtall 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

and the second sec		
Line S	pacing 4mm	×
Print	Density 100%	*
	Speed 130% (darkest) 120%	
2410 ProPrint	120%	
Prin	Width 100%	
Trainer .	Width 100% 90% 80%	
M Free	80% 70% (lightest)	

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

· / 38	a star all	58	
15 40 Gal	Line Spacing	4mm	*
	Print Density	100%	*
10°	Print Speed	High	~
38'	Print Width	72mm	~
	ACC ST SH	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

Automatic Retry	Enable 🗸
l the l	Enable
	Disabled
111	

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

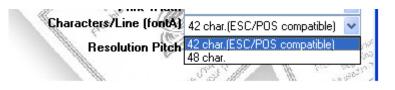
Retry processing is repeated up to five times.

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.





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	HUS	A
Line Spacing	4mm	~
Print Density	100%	~
Print Speed	High	~
Print Width	72mm	~
Automatic Retry	Enable	~
Block Print Start Timing	Detect Page End	~
	Detect Page End Detect Line End	~

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.

File	(<u>F)</u> View(<u>V</u>) ECO(<u>E</u>) Information	Management(<u>M</u>)	Help(<u>H</u>)				
	General Settings	Star	Cloud S	Services		sta	r
	Star Cloud Services	Learn a	bout Star Cloud	d Services			
2	ECO Settings			Cloud Services account p	vrior to login .		
•?	Print Tests	Accou Enter y		rvices account: Username	: (Email) and Pas	sword.	
0	OPOS	Userna	me (Email)		1		-
۲	JavaPOS	Passwo	rd			1	
	Serial Ports					1.1.5	
## # 9	Image List		w Password				
0	Logos & Cropping		ister Device		<u>Connect to</u>	o Dashboar	rd
<u>م</u>	Text Processing	Retaile					
	Barcodes	Device (Device	ID : ID is system gener	rated)			
%	Journal	Servio	e	1			
7	Vertical Mount	Prin ⁻	t 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.





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: U	Isemame (Email) and Password.
Username (Email)	
Password	
Show Password Register Device	Connect to Dashboard
Retailer : Device Name :	
DeviceID : (DeviceID is system generated)	

(2) The following dialog appears. Click OK.

	Device registration successful	
_	Retailer :	
	DeviceID :	

(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 reinstall it.





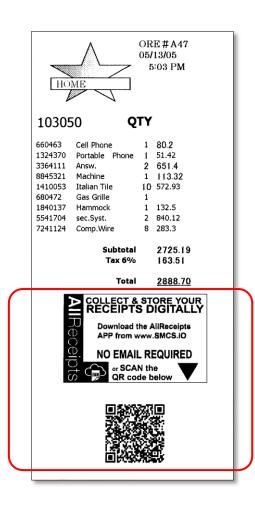
4.4.2. Setting of Registration

Service			
	&R Code Print Size	Medium	~
Micro Receipt	Information + QR code		~

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)



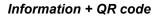






"Information logo + QR code" or "only QR code" can be set to print without printing the normal receipt data uploaded to the Star Cloud using the Micro Receipt function.

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.

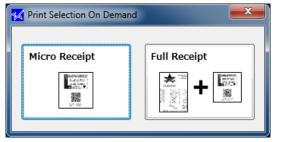




Only QR code



On demand : Information + QR code



On demand	:	QR	code	
-----------	---	----	------	--



MEMO Micro Receipt cannot be used when <u>on demand function of ECO Settings</u> 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

File	(<u>F)</u> View(<u>V</u>) ECO(<u>E</u>)	Н	elp(H)	
í	Information	*		cloug/
ø	General Settings		ECO Settings	Stalf ^A CCO TSP100 A futurePRNT
62	Star Cloud Services		Auto Reduction Setting	
2	ECO Settings		Paper width used	80mm (Do Not Compress)
•2	Print Tests	1	Receipt length reduction	Original 🔹
0	OPOS			
۲	JavaPOS		Top Margin to First Line	
	Serial Ports		Top Margin to First Line	3mm 👻
11 10	Image List			
•	Logos & Cropping		On demand	
di ta	Text Processing		Enable on demand	
	Barcodes			
1/2	Journal			View Saved Data
7	Vertical Mount			
F	Printer Font	Ŧ		
			Apply	Changes Close

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

MEMO The contents displayed differ depending on the connected model.

4.5.1. Auto Reduction Setting

This function reduces the overall size of the printing.

MEMO 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

Paper width used 80mm (Do Not Compress) Receipt length reduction 80mm (Do Not Compress) 80mm -> 58mm

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.

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	•
	Original 25% reduction 50% reduction	

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

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

MEMO 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.

Lop Margin to First Line	
Top Margin to First Line	3mm 👻
	11mm 10mm 9mm 8mm 7mm
On demand Enable on demand	Gmm Smm 4mm 3mm

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.





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 of Ster</u> <u>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.

MEMO 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.







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

- 1) 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.





■ 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.

On demand	
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.

📢 Journal		×
Date Time	Preview	
		^
		-
< III > Search Print		4

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

Enter Start Search Date	×
Please enter start search date of Journa	al data. OK Cancel
3/11/2010	





(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.

🜠 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 0 1 2 3 4 5 6 7 8 9 : ; < = > ? 4 @ A B C D E F G H I J K L M N 0 5 P Q R S T U V W X Y Z [\] ^ _ 6 ` a b c d e f g h i j k l m n o 7 p q r s t u v w x y z { } ~ ※ 8 - - - - - - - - -
	9 J Γ • • • • / \ \ F r + τ + • X A Ä Ö Ü ß § ≙ ♀ f ¢ ½ \ X ¥ ¼ Ā ë B é è ē ê ï í ì ī î ö ó ò ō ô ü ú C ù ū û ç ¿ Ñ ñ Ē ɔ i Å Ø θ ä á à D ā â ° Ĉ Ϝ Ω μ Σ σ ẍ Ћ X ∞ ± ÷ π E L = ■ L + J L η ■ ※ L ← ↑ → ↓ c

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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:

The time that the confirmation dialog box appears for each channel is as follows:

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



4.6. Printer Tests

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The page lets you generate various sample receipt printouts.

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

- 144	Star Micronics TSP100 C	onfigu	ration (Star Line Mode)		
Fi	e(<u>F</u>) View(<u>V</u>) ECO(<u>E</u>)	Man	Management(<u>M</u>) Help(<u>H</u>)		
(1) (1)		*	Printer Test	s star	
62	Star Cloud Services		Test Prints	The second second	
2	ECO Settings		Default Character Set	Print the current default single byte character set	
•2	Print Tests		Barcode Print	Print all supported barcodes	
0	OPOS		Print Head Test	Test the print head	
۲	JavaPOS		Star Cloud Services	Print the services information	
	Serial Ports				
	Image List		CashDrawer/Periph	neral Device	
0	Logos & Cropping	[Open CashDrawer 1	Sound Buzzer 1	
-	Text Processing		Open CashDrawer 2	Sound Buzzer 2	
	Barcodes				
1/2	Journal		TSP100III Connect		
¥	Vertical Mount		Check the connection	It will check the communication with the printer.	
F	Printer Font				
		Ŧ			
				Apply Changes Close	

4.6.1. Test Prints

■ 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.

■ Star Cloud Services

Prints the services information from Star Micronics.

More details on Star Cloud Services website: www.starcloudservices.com

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.

i	Information	00000	
ß	General Settings	OPOS Settings	ଛା ଇମ୍ପ
62	Star Cloud Services	68 7	
2	ECO Settings	OPOS POSPrinter Device Names	
•?	Print Tests	Control Object Registration	
0	OPOS	OPOS CCO 👻	
9			Add New
3	JavaPOS		Delete
_			Configure
	Serial Ports		Check Health
	Image List		Sample Application
0	Logos & Cropping	OPOS CashDrawer	
a the	Text Processing	Control Object Registration	MILT
	Barcodes	OPOS CCO 🔹	
	Journal		Add New Delete
1/2	Journal		Configure
7	Vertical Mount		Check Health
F	Printer Font		Sample Application
-	-		

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.



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 Dev	rice Names
Control Object Registration	A A A A
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.
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.



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.



• 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 Devic	e Names	
Control Object Registration	PAN	
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
© 72mm	
🔲 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 Names		
	Control Object Registration	A A A A	
	Star CO	-	
<	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.

• When a non-Star control object is registered:

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

(1) Click "Add New".

OPOS POSPrinter Device Names	
Control Object Registration	
Ouries	Add New
	Configure

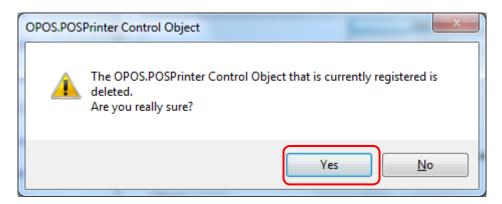
(2) The following confirmation dialog box appears.

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.PO Would you like to Install the Comm	OSPrinter Control Object installed. on Control Object?
	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".



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	A A A A
/	OPOS CCO	-
\subseteq	Star TSP100 Cutter (TSP143)	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.





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".

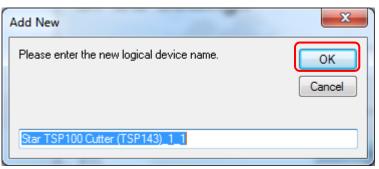
Control Object Registration	
Star CO	-
Star TSP100 Cutter (TSP143)_1	Add New
	Delete
	Configure
	Check Health
	Sample Application

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

OPOS POSPrinter Configuration	x
Device Name: Star TSP100 Cutter (TSP143)_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".



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".

OPOS POSPrinter Configuration	x
Device Name: Star TSP100 Cutter (TSP143)_1	51mm
Logical Device Names	
Star TSP100 Cutter (TSP143)_1_1 Add New Delete	
Checked Block Printing	
Accept	incel



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".

C	OPOS CashDrawer			
c	Control Object Registration	11		MILT
<	Not Selected	>	-	
Γ				Add New
				Delete
				Configure

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

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

(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 CashDrawer	
	Control Object Registration	
<	Star CO	•
		Add New
		Delete
		Configure

(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	

(3) The cash drawer is added.

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

OPOS CashDrawer	
Control Object Registration	
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	LYL
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).

OPOS.Ca	IshDrawer Control Object	
?	This system already has an OPOS.CashDrawer Control Object installed. Would you like to Install the Common Control Object?	
	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".



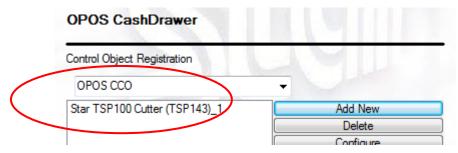
Notes: Once a control object is deleted, it cannot be recovered.

(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.



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.



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.

GPOS CashDrawer Configuration				
	Device Name: Star TSP100 Cutter (TSP143)_1			
	Logical Device Names			
		Add New Delete		
	Settings , Status , Active Drawer Number	CashDrawer 1 🔹		
	Activation Pulse Width	200ms 🔹		
	Post Activation Pause	200ms 🔻		
		Accept Cancel		
(3) Cash drawer operation setting and after				



(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.

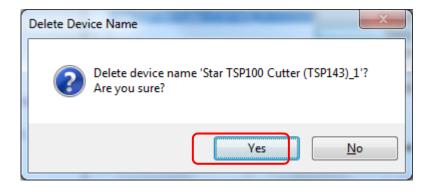
Post Activation Pause

Specify the delay time of cash drawer 1.

MEMO 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.







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.

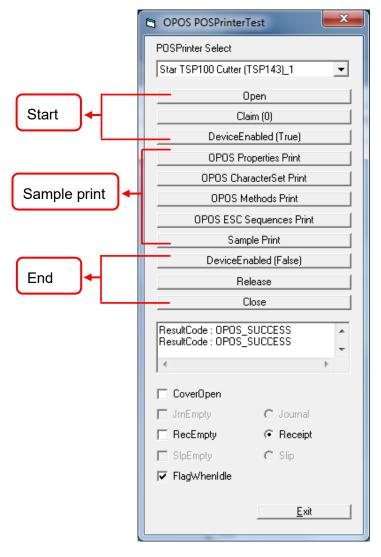
Bold (<esc> bC) StarMicronics</esc>	
Underline (<esc> #uC) <u>StarMicronics</u></esc>	
Reverse video (<esc> rvC) StarMicronics</esc>	
Single high & wide (<esc> 1C) StarMicronics</esc>	
Double wide (<esc> 2C) StarMicronics</esc>	
Double high (<esc> 3C) StarMicronics</esc>	



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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.



TSP100 🗤 futurePRI

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.

 Information General Settings 	JavaPOS Settings	star
Star Cloud Services ECO Settings	Create JavaPOS XML Registry File	
Print TestsOPOS	POSPrinter	
JavaPOS		Add New
Serial Ports		Delete
Image List		Configure
Logos & Cropping	CashDrawer	Check Health
Fixt Processing		
I Barcodes		Add New
🔀 Journal		Delete
Vertical Mount		Configure
Printer Font		Check Health

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.

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.

POSPrinter	
	Add New
	Delete
	Configure
	Check Health
	1
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.

tar TSP100 Cutter (TSP143)_1	Add New
	Delete
	Configure
	Check Health
	S7
M JavaPOS Printer Configuration	×
Device Name: Star TSP100 Cutter (TSP143)_1	
Settings	
🕖 o Checked Block Printing	
Accept	Cancel





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.

CashDrawer		
	Add New	
	Delete	
	Configure	
	Check Health	
Add JavaPOS Device Please enter the new device name. Star TSP100 O ther (TSP142) CashDrawer, 1	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.

CashDrawer		
Star TSP100 Cutter (TSP1	43)_CashDrawer_1	Add New
		Delete
		Configure
		Check Health
VavaPOS CashDrawer C		awer_1
Settings		awei_1
 ✓ Status ✓ Active 		
Drawer Number	CashDraw	er 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.









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".



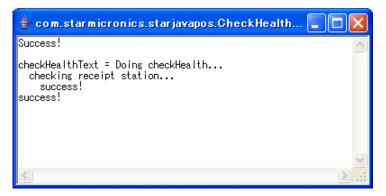
This will delete the selected printer or cash drawer.



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







MEMO 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 > \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.



TSP100 📈 futurePRI

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 TSP100ECO/TSP100IIIU with the USB interface equipped, the TSP100IIIW/TSP100IIILAN with the Ethernet interface equipped and theTSP100IIIBI 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".

WEMO 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.

<mark> 🔣</mark> S	Star Micronics TSP100 Configuration (Star Line Mode)				
File	File(E) View(V) ECO(E) Help(H)				
i	Information 🔺				
ø	General Settings	Serial Ports	୍ଟର୍ଆ ନ୍ୟ		
62	Star Cloud Services	STA AND			
	ECO Settings	Virtual Serial Ports	fair and		
•?	Virtual Serial Port Name				
0	OPOS		Add Port		
0	JavaPOS		Modify Port		
	Serial Ports		Delete Port		
	Image List		Check Health		
0	Logos & Cropping	Serial Port Emulator Service:			
<i>.</i>	Text Processing	Status: Stopped	Start		
	Barcodes	Startup Type: Manual	Stop		
%	Journal	2.0			
V	Vertical Mount		1.1.1.1.1.1.1.1		
F	Printer Font				
		Apply Changes	Close		



TSP100 futurePF

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) 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	X
Virtual Serial Port Name:	ОК
Error Action	Cancel
Stop printing	Timeout (5 - 3600)
Continuous 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.







- For TSP100ECO (firmware versions earlier than firmware version 2.0), TSP100IIIW, TSP100IIILAN and TSP100IIIBI.
 - (1) Click "Add Port".

Virtual Serial Port Name:	A.A.
	Add Port
L	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	X
Please input the port name.	OK Cancel

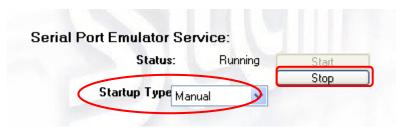
(3) Click "Apply Changes" to complete the creation of a virtual serial port.

Notes:

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







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:

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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.







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	Image List		sta
🚯 General Settings	inage List		Deci
Star Cloud Services	Image List	2	4 4
CO Settings	Image1 Image2	Preview	
Print Tests	Image3 BAT		
OPOS	Bowl bus		
JavaPOS			
Serial Ports			
🔡 Image List			
Logos & Cropping			
Text 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	Preview		
nage3 AT lowl us				
Add New	Rename	Delete		

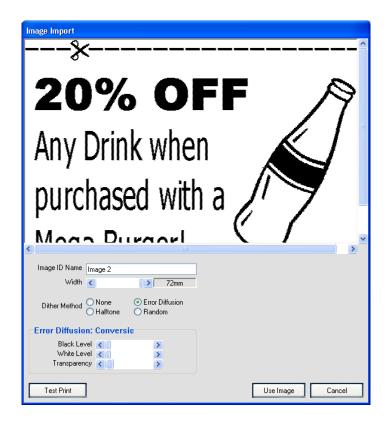




Click "Add New" to browse for an image to add to the list.

Open						? 🔀
Look jn:	🚞 SampleImages	•	0	ø	• 🖭 👏	
My Recent Documents	Coupon1.bmp Coupon2.bmp Coupon3.bmp Coupon4.bmp					
Desktop						
My Documents						
My Computer						
My comparer	File <u>n</u> ame:	Coupon1.bmp			*	<u>O</u> pen
	Files of type:	Image Files (*,bmp;*,jpg;*,gif)			~	Cancel
My Network		Open as read-only				

The following "Image Import" window appears.



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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".



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.

	Help(H)	
1 Information	Logo Drinting and Crops	
General Settings	Logo Printing and Cropp	ang sean
Star Cloud Services	Logo Printing	1
ECO Settings	Top Image List	
Print Tests		Add Delete
OPOS	Cycl	e •
JavaPOS	Bottom Image List	
		Add Delete
	Print	
Image List		
Logos & Cropping	Merge Image Select	Clear
Text Processing	Include logos and coupons when merging	
Barcodes		
Journal	Cropping	
Vertical Mount	Top Crop Length	mm
F Printer Font	Bottom Crop Length	mm
I THINKET ONL	r	
	Apply Changes	Close



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4.11.1. Logo Printing

	Add
	Delete
	Cycle
ottom Image List	Add Delete
lottom Image List	Delete
kottom Image List Nerge Image	Delete

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



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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 an image and clic	ek on 'Use' Preview 20% OFF Any Drink when purchased with a Mega Burger!
Alignment O Left O Centre	O 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.

Logo Printing	
Top Image List	
	Add
	Delete
	Cycle 🗸
	Print All
	Cycle

Selecting "Cycle" prints the specified images in sequence.

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

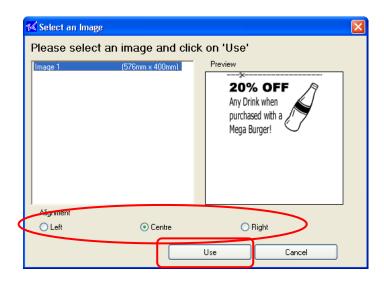




■ Bottom image setting

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.



- (3) Click "Use".
- (4) 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.





■ 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".

🜠 Select an Image	Loss Posters		x
Please select	an image and click	con 'Use'	
Image1 Image2	(72mm x 50mm) (72mm x 25mm)	Preview	_
magez	(72000 X 23000) 1		
		star	
1			
		Use Cancel	
		Cancer	

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

mage1	Select	Clear
-------	--------	-------



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			
	Top Crop Length	0	mm
	Bottom Crop Length	0	mm

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



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.

	Information	Text Proc	cessing star
62	Star Cloud Services	Text Triggers	A TA SALL CONTRACT
<u>/</u>	ECO Settings	Text Keys	Configuration for "sample"
•?	Print Tests	sample	sample
0	OPOS		1252 (Windows Latin 1)
-	JavaPOS	0	Replace with alternate text
	Serial Ports		Change Merge Setting Disable Merging
H 다 H 및	Image List		Change the merge image
0	Logos & Cropping		Change Coupon Settings
<u>چ</u>	Text Processing	Add Key	Disable Coupons Add Multiple Coupons
	Barcodes	Delete Key	Add Single Coupon
1/c	Journal	Page end detection	Select
_	Vertical Mount	Cut or Feed to Team	
F	Printer Font	Number of	line feeds

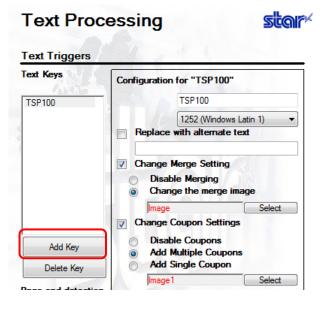


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4.12.1. Text Triggers

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.



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	



- 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)
	Replace v 858
	1252 (Windows Latin 1) 932 (Shift-JIS)
	Change M JIS Simplified Chinese (GB2312)

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

Text Pro	cossing	Dee
Text Triggers		
Text Keys	Configuration for "TSP10	0"
TSP100	TSP100	
	1252 (Windo	ows Latin 1)
	Replace with alternat	te text
	Disable Merging Ochange the merge	e image
	Image	Select
	Change Coupon Sett	ings
	Disable Coupons	
Add Key	Add Multiple Coup	
Delete Key	Add Single Coupo	
Deserved data atta	Image1	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.

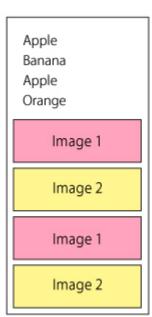
Coupon printing example

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 Single Coupons]

[Add Multiple Coupons or Add Single Coupons]

Apple Banana Peach Orange





4.12.2. End Page Detect

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

Page end detection	
Cut or Feed to Tearbar Commands	~
Form Feed Command	~
Number of line feeds 3	

■ 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.

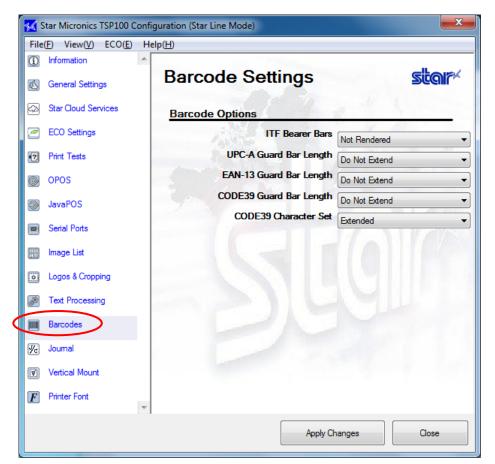
■ Consecutive Line Feeds

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



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 ITF 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.

UPC-A Guard Bar Length	
EAN-13 Guard Bar Length	Do Not Extend 0.5mm
CODE39 Guard Bar Length	
	2mm



UPC-A Barcode without Guard Bars Extended



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 Ler	ngth DoNotExtend	~
CODE39 Guard Bar Ler	Do Not Extend	
CODE JJ Guard Dai Lei	0.5mm	
	1mm	
	1.5mm	
	2mm	
JAN/EAN-13 	JAN/EAN-13 	
JAN/EAN-13 Barcode without	JAN/EAN-13 Barcode with	L
Guard Bars Extended	Guard Bars Extended 2 mm	L

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
	limm
	1.5mm
	2mm
CODE39 Standard 012345678901	CODE39 Standard 012345678901
	CODE39 Barcode with Guard Bars Extended 2 mm

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".







4.14. Journaling, and Printing of Multiple Customized Copies

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

File(E) View(V) ECO(E) I ① Information ④ General Settings		and Multi-	Сору	star
Star Cloud Services				
ECO Settings	Multi-Copy	<u> </u>	6	-
Print Tests	Automatic Mu	Itiple Copies		
OPOS	First Copy	Second Copy	Third Copy	Fourth Copy
JavaPOS	Enable			
Serial Ports	Header Image		Select	Clear
Image List	Footer Image		Select	
Logos & Cropping	Merge Image		Select	Clear
Text Processing	Bowl		Select	Clear
Barcodes	Electronic Jo			
Vic Journal				
Vertical Mount		u.		View Journal
F Printer Font				
		<u> </u>	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.



4.14.2. Journal

A journal is a function that saves printed data.

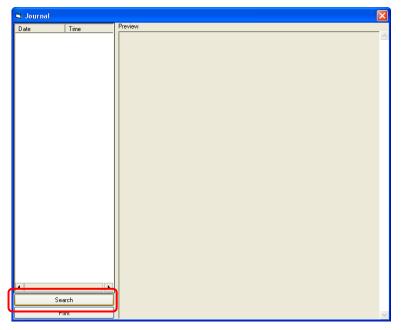
To use this function, select the "Enable Journal" checkbox.

Electronic Journal	
Frable 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	





(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.	OK Cancel
9/15/2005	

(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 9/14/2005	Time 10:32:57 AM 10:33:00 AM 10:33:03 AM 10:33:07 AM 10:33:07 AM 10:33:07 AM 10:31:31 PM 2:00:50 PM 2:01:13 PM 2:23:22 PM 4:49:40 PM	Preview Star 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
×	Print	1410053	<u> Ttalian Tile 10 💌</u>

Journal print data is saved into the following folder. <System Drive>\Star\TSP100\Journal

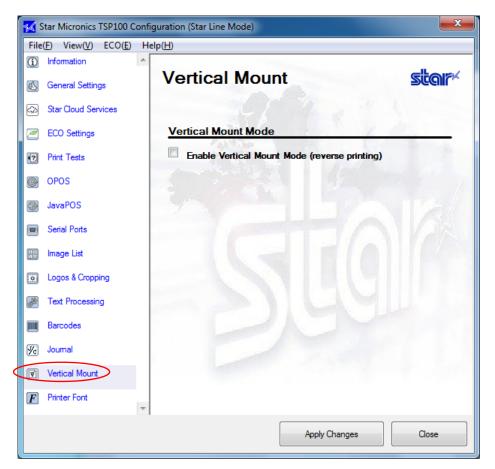
Note: When the driver utility application is updated from future PRNT CD 5.5 or earlier, the stored data for canceled printing is transferred to the above folder. If data has not been transferred to the above folder, please check the following folder.

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.

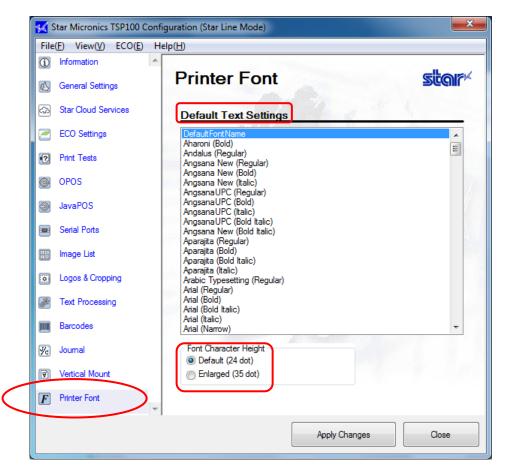






4.16. Printer Font <Star Line mode only>

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

	Windows-1252 (CP1252)															
	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	ЕТВ	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	I	m	n	ο
7x	р	q	r	s	t	u	v	w	х	у	z	{	Ι	}	~	DEL
8x	€		,	f	"		†	‡	^	‰	Š	<	Œ		Ž	
9x		í	,	"	"	•	-	—	~	тм	Š	>	œ		ž	Ϋ́
Ax	NBSP	i	¢	£	¤	¥	-	§		©	а	«	٦	SHY	®	-
Bx	٥	±	2	3	•	μ	¶	•	د	1	0	»	1⁄4	1/2	3⁄4	ż
Сх	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 < TSP100IIIW / TSP100IIILAN Only>

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

MEMO 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.

🚯 General Settings	*		
Star Cloud Services	Vir	tual TCP/IP Ports	star
ECO Settings			
Print Tests	Virtu	al TCP/IP Ports	6 Au
OPOS	Virtu	al TCP/IP Port Number	
JavaPOS			Add Port
Serial Ports			Delete Port
📰 Image List			Check Health
Logos & Cropping	E		
First Processing	тср	P/IP Port Emulator Service:	
Barcodes		Status Stopped	Start
🖅 Journal			Stop
Vertical Mount		Startup Type Manual	
F Printer Font			
Virtual TCP/IP Ports			
	· ·		

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).



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 Nur	nber
	Add Port
	Delete Port
	Check Health

2. 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	\mathbf{X}
Please input the port number.	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.

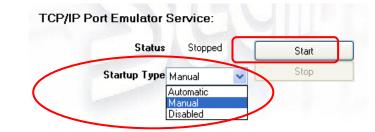


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4.17.2. TCP/IP Port Emulator Service Setting

Select the Startup Type for the emulator service.

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



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:

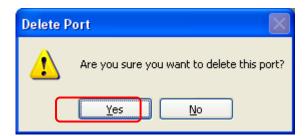
Before stopping the service, make sure that you have closed all applications that are using virtual TCP/IP ports.

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.

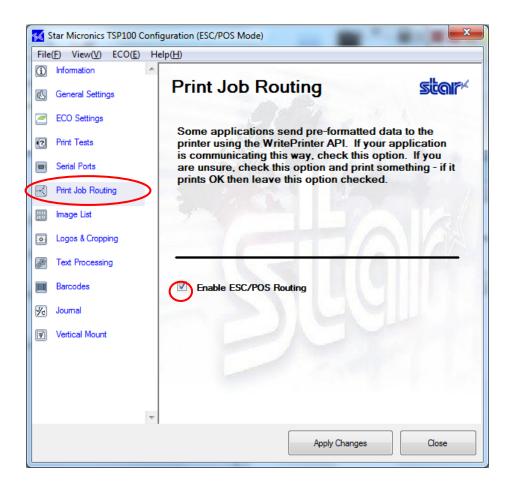




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4.18. Print Job Routing (Write Printer) < ESC/POS Mode Only>

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

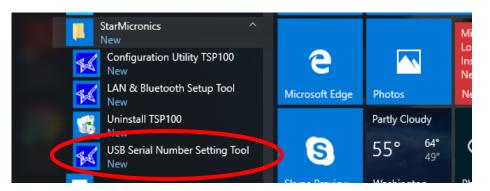
Use the USB Serial Number Setting Tool to switch the settings of the USB serial number to enabled or disabled.

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".



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

🜠 TSP100 USB Serial Number Setting Tool 🛛 Ver 📲 🚛	_	\times
Reload		
Printer Queue	Port Name	
Star TSP100 Cutter (TSP143)	USB001	
Configure USB Serial Number	>	





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

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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 N	umber	×
Current Serial Number New Serial Number 🗹 Use Serial Number	2550716120410051 12345678	
USB Serial Number : Cap *In case of blank, it will n	vital 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.

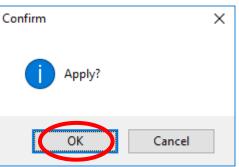
🜠 Configure USB Serial Number	×
Current Serial Number New Serial Number 12345678 Use Serial Number	
USB Serial Number : Capital alphanumeric cha *In case of blank, it will not be changed. This Printer can't get current value. Please check it on printed contents. Reload	aracter. (8 digits)







(4) Click [OK].



(5) The following message will appear if the rewrite is successful. Click [OK].

Success	×	
0	Succeeded in setting the USB serial number. Please turn the printer off and then on again. Note that the current printer queue will not be able to communicate.	
	ОК	

(6) Close the USB Serial Number Setting Tool.

¥4	Configure USB Serial Nu	umber	$(\times$)
	Current Serial Number New Serial Number	12345678 87654321]	
	☑ Use Serial Number			
	USB Serial Number : Cap *In case of blank, it will no	ital alphanumeric character. (8 or 16 digits) ot be changed.		
	Reload	Apply	(



(7) Delete the printer queue that has become unusable due to the change of the USB serial number. From the Windows Start menu, open [Settings]-[Devices]-[Printers & scanners], select the printer queue that has changed the USB serial number and click [Remove device]-[Yes].

← Settings	- 🗆 X	
வ் Home	Printers & scanners	
Find a setting	+ Add a printer or scanner	
Devices	TSP100-08484_	
Bluetooth & other devices		
日 Printers & scanners	Printers & scanners	
() Mouse	Microsoft Print to PDF Default	
📼 Typing	Microsoft XPS Document Writer	
🖉 Pen & Windows Ink	Star TSP100 Cutter (TSP143)	
(စု) AutoPlay		Are you sure you want to remove this device?
📋 USB	Open queue Manage Remove device	Yes

- (8) Turn the printer off.
- (9) Turn the printer on. The printer queue with the changed USB serial number is created via plug & play.



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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 userdefined 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

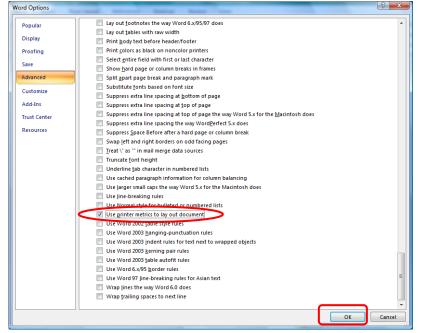
(1) Click the Office Button , and then click the "Word Options" button. Select "Advanced, and click "Layout Options".

Popular	Prompt before saving Normal template ()
Display	Always create backup copy
Prove firms	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	Saye smart tags as XML properties in Web pages
Customize	Save form data as delimited text file
Add-Ins	Embed linguistic data
	Embed smart tags
Trust Center	
Resources	General
	Provide feedback with sound
	Provide feedback with animation
	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 <u>b</u> ackground repagination
	Show add-in user interface errors
	Mailing a <u>d</u> dress:
	File Locations Web Options Service Options
	Ene cocanons Service Options
	Compatibility options for:
	Lay out this document as if created in: Microsoft Office Word 2007 💌
	■ Layout Options
	OK Canc





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

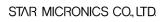


(3) Open Word's File menu, and select Save to save the document.

MEMO 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.





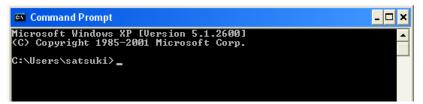
TSP100 futurePR

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 TSP100IIIW/TSP100IIILAN 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.





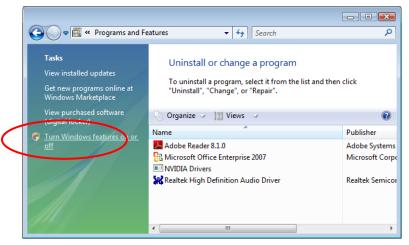
TSP100 √ futurePRNT

7.2. Manually Setting an IP Address (Using the TSP100III Telnet Utility)

You can use the **telnet** command to connect directly to a TSP100IIIW/TSP100IIILAN 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].



- 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].

Ō	Windows Features	- • ×
	Turn Windows features on or off	0
	To turn a feature on, select its check box. To turn a feature check box. A filled box means that only part of the feature	
	Simple TCPIP services (i.e. echo, daytime etc)	*
	Subsystem for UNIX-based Applications	
	Tablet PC Optional Components	
	Telnet Client	
	Telnet Server	
	TFTP Client	
	Windows DFS Replication Service	
	Windows Fax and Scan	=
	🔽 📔 Windows Meeting Space	
	Windows Process Activation Service Windows Process Activation Service Windows Process Activation Service Windows Service Windows Windows Service Windows Windows Windows Service Windows Windows Service Windows Service Windows Windows Service Windows Service Windows Service Se	
		*
		Cancel

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.





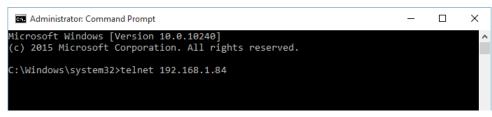


To manually set the IP address, proceed as follows.

1. Open a Command Prompt window.

At the Windows Start menu, select [All Programs] → [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.)





- 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.

Telnet 192.168.1.84	-	\times
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:		

5. 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.





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.

- The "Do Checked Block Printing" funciton in OPOS and JavaPOS is not supported with the TSP100IIIW/TSP100IIILAN.

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.





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".





- 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.





- 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.

- Paper size setting in some applications

In some applications (e.g. Microsoft Office), you may not be able to change the paper size from the UI in the applications.

In this case, please set the paper size from "Printer properties" first. Then you can select the paper size from the UI in the applications.



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 	
Rev. 7.3a	9/6/2017	- Changed a CD start screen	
Rev. 7.4	12/21/2017	- Added to print Star Cloud Services information	
Rev. 7.5	8/21/2020	 Added support for software package 7.5 Windows8 end of support TSP100U/TSP100PU/TSP100LAN/TSP100GT end of support 	





http://www.starmicronics.com/support/