

## Configuring TSP100 Series Printers for ESC/POS Mode

### Introduction

This application note shows how to configure a TSP100 Series Printer for ESC/POS-styled printouts.

Supported Printers: All TSP100 Family Models: TSP100ECO, TSP100U, TSP100PUSB, TSP100LAN, TSP100GT

Supported Interfaces: USB, PoweredUSB, Ethernet

Supported Environments: Windows 7 (32-bit), Windows Vista (32-bit), Windows XP

Star Tools Needed: *futurePRNT* Utility V5.0 or higher (Found on Installation CD or the [Star Micronics Website](http://www.star-micronics.com))

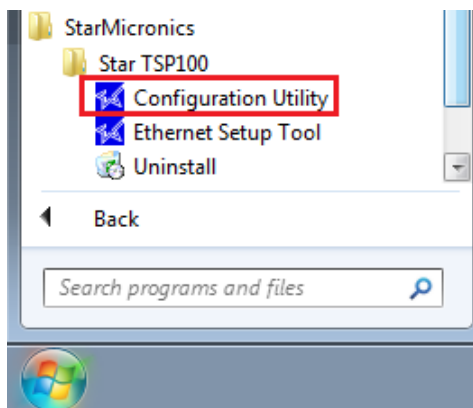
### Table of Contents

I. [Text and Printing Settings](#) ..... Page 1

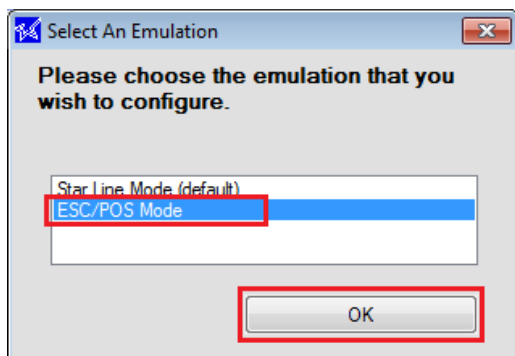
II. [Print Job Routing](#) ..... Page 6

### I. Text and Printing Settings

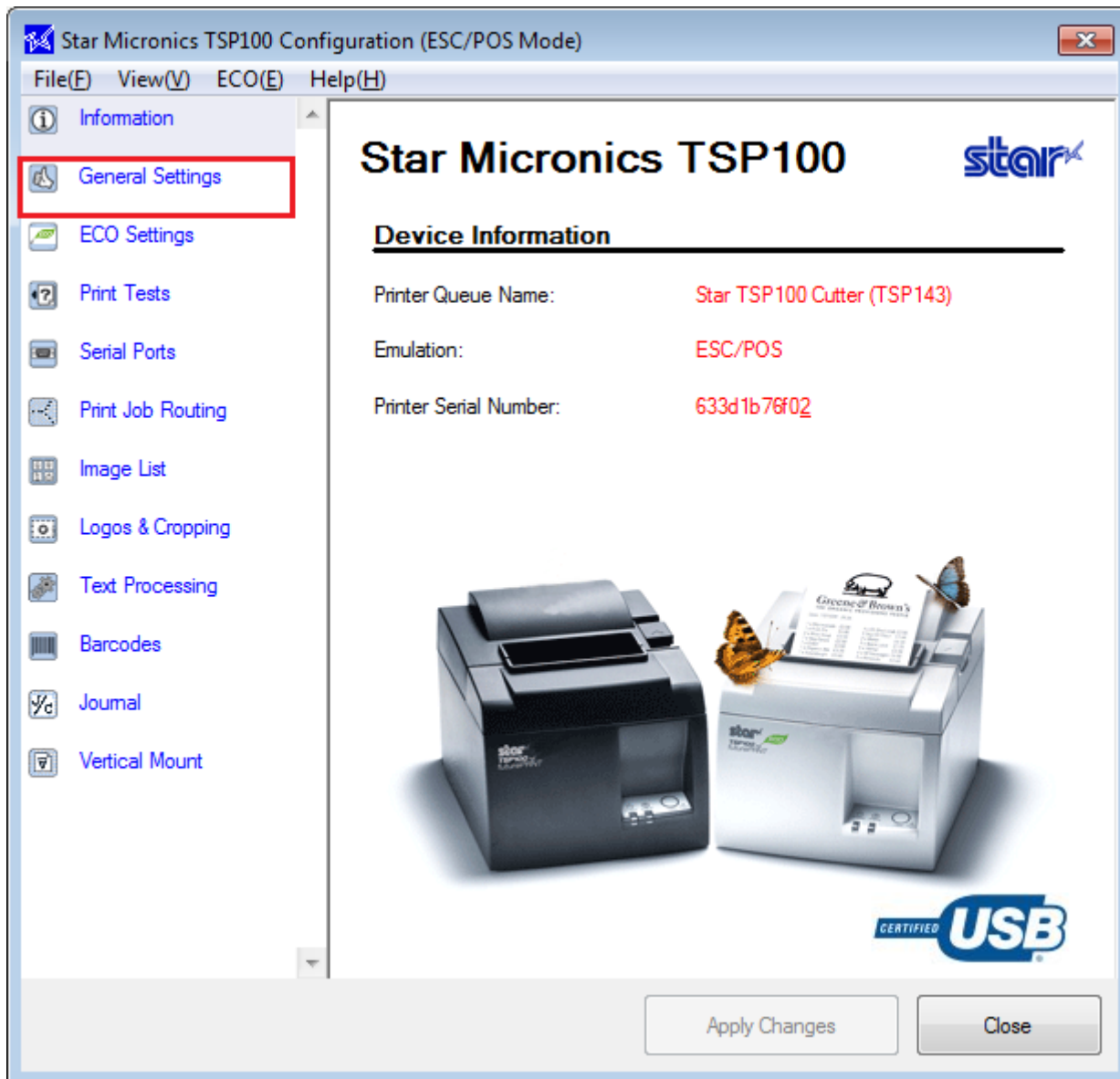
1. Ensure the *futurePRNT* Configuration Utility was installed and the TSP100 was added to the Devices and Printers (or Printers and Faxes) folder.



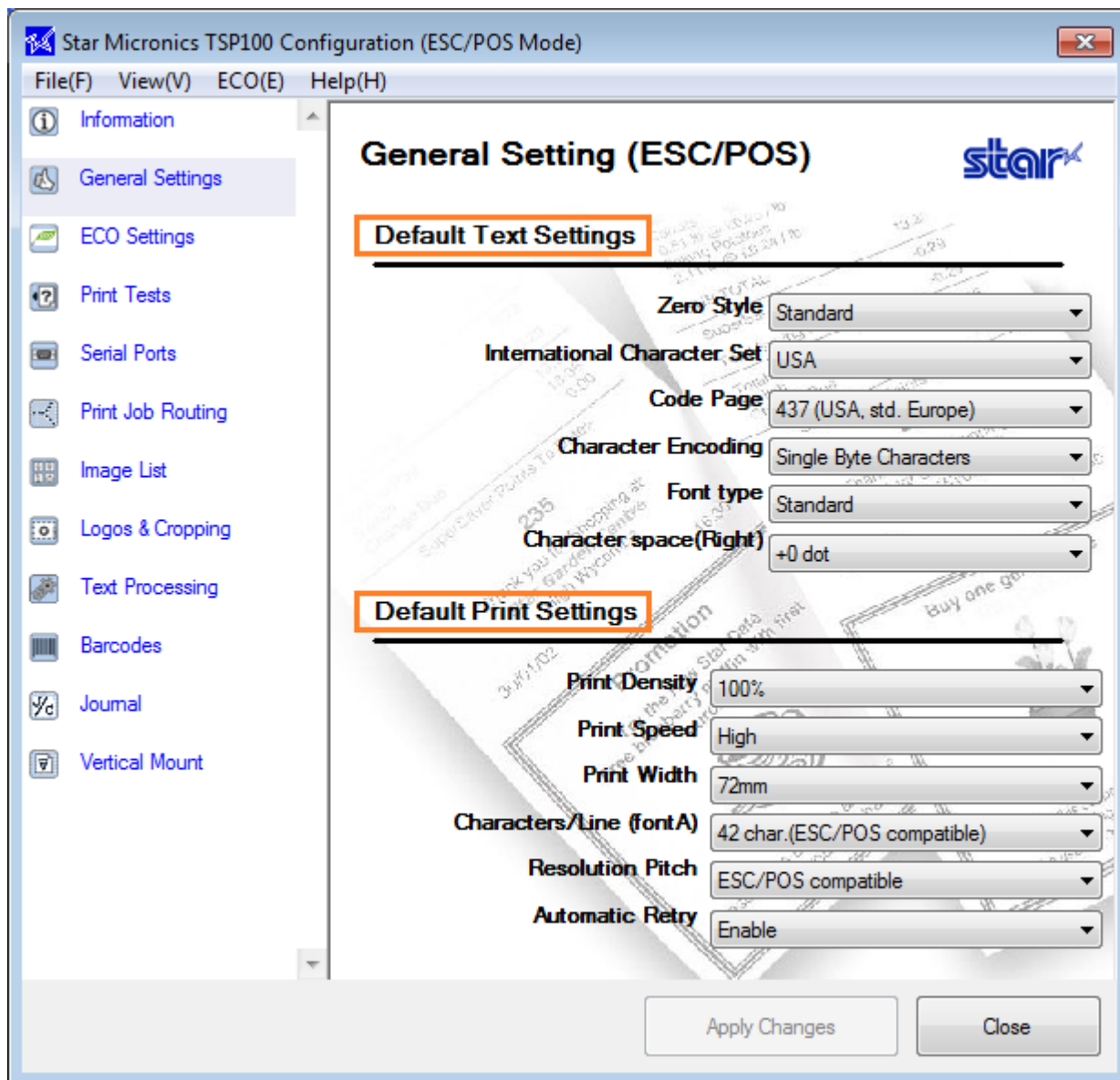
2. Click the Windows Start button and navigate All Programs > StarMicronics > Star TSP100 > Configuration Utility.



3. Select ESC/POS Mode and click "OK".

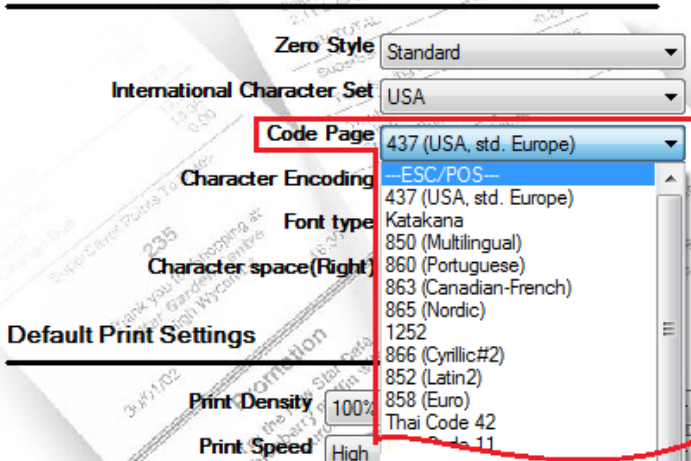


4. Click “General Settings” in the left menu bar.



The Default Text Settings and Default Printer Settings sections contain settings relevant to print out appearance.

## Default Text Settings



Zero Style: Standard

International Character Set: USA

Code Page: 437 (USA, std. Europe)

Character Encoding: --ESC/POS--

Font type: Katakana

Character space(Right): 850 (Multilingual)

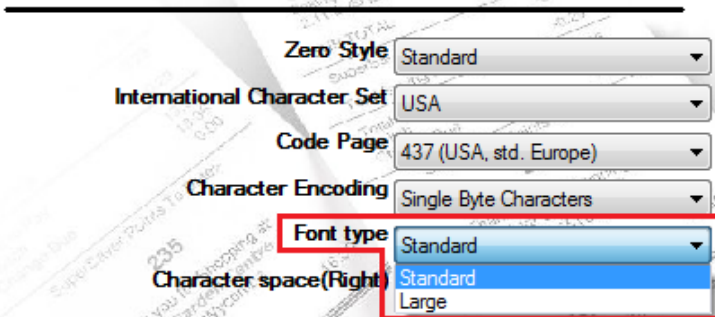
Default Print Settings

Print Density: 100%

Print Speed: High

5. Choose the desired Code Page.

## Default Text Settings



Zero Style: Standard

International Character Set: USA

Code Page: 437 (USA, std. Europe)

Character Encoding: Single Byte Characters

Font type: Standard

Character space(Right): Standard

Default Print Settings

Print Density: 100%

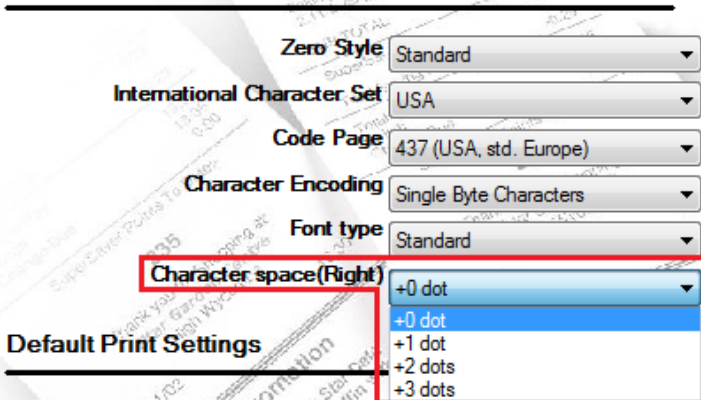
Print Speed: High

6. Choose the desired font type:

[Standard](#): Sets standard ESC/POS font

[Large](#): Sets a rounder, bulkier looking font

## Default Text Settings



Zero Style: Standard

International Character Set: USA

Code Page: 437 (USA, std. Europe)

Character Encoding: Single Byte Characters

Font type: Standard

Character space(Right): +0 dot

Default Print Settings

Print Density: 100%

Print Speed: High

7. Choose a setting to add extra space (in dot units) to the right of each character. Extra spacing may improve appearance when the font type is set to Large.

## Default Print Settings

Print Density	100%
Print Speed	High
Print Width	72mm
Characters/Line (fontA)	42 char.(ESC/POS compatible)
Resolution Pitch	42 char.(ESC/POS compatible) 48 char.
Automatic Retry	Enable

8. Select the amount of characters per line.

**42 characters:** The standard for ESC/POS Mode

**48 characters:** The standard for Star Line Mode

## Default Print Settings

Print Density	100%
Print Speed	High
Print Width	72mm
Characters/Line (fontA)	42 char.(ESC/POS compatible)
Resolution Pitch	ESC/POS compatible Star standard
Automatic Retry	ESC/POS compatible

9. Select the resolution pitch.

**Star Standard:** Uses Star Line Mode's standard resolution. Characters are smaller compared to native ESC/POS printers, so the receipt portion is smaller and the right margin is larger.

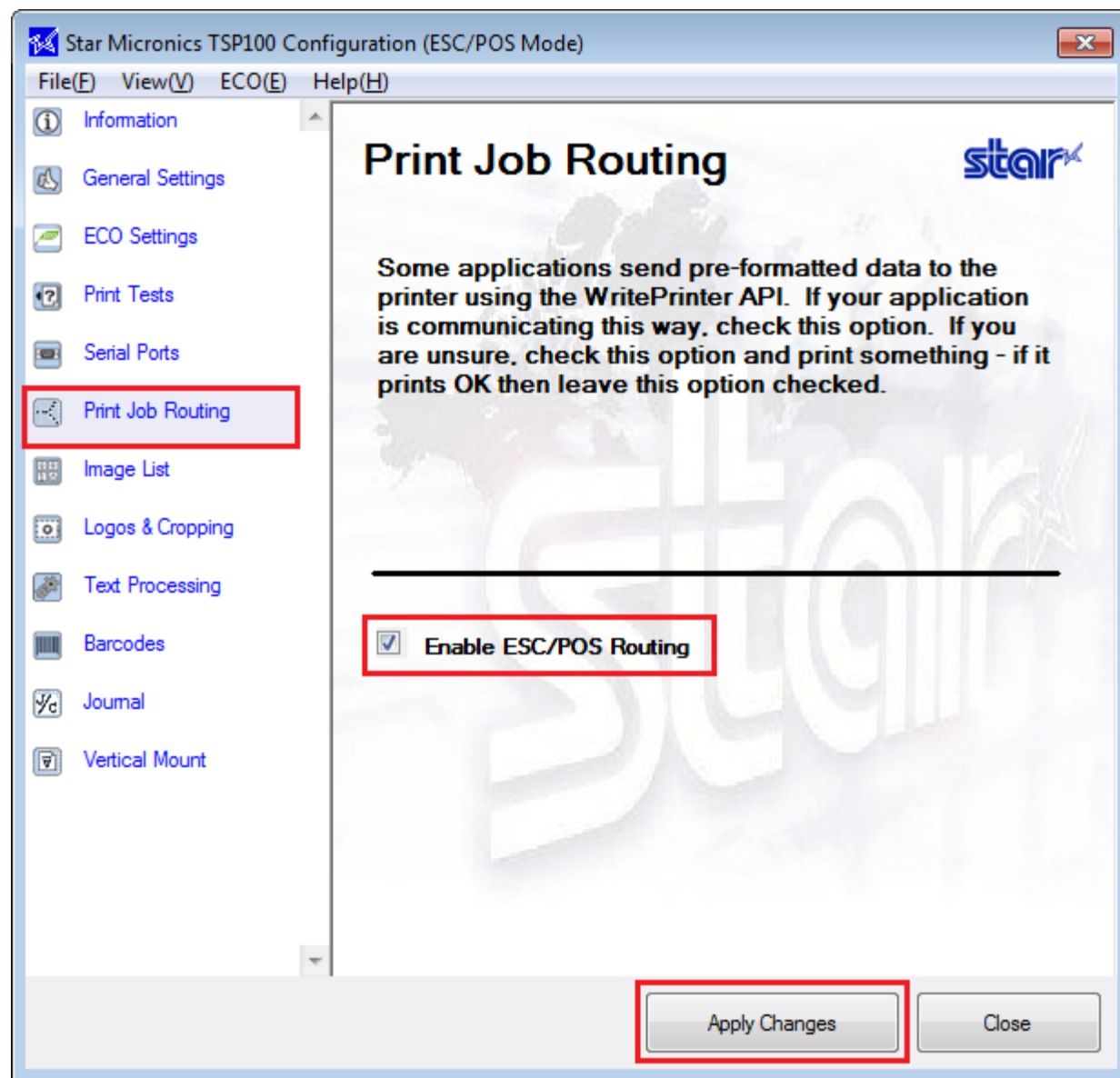
**ESC/POS Compatible:** Margins and line widths are the same as a typical ESC/POS printer. Characters are the same size as with Star Line Mode, but padding is added so that the print area occupies the same areas as on a native ESC/POS printer.

Apply Changes	Close
---------------	-------

10. Click "Apply Changes" in the lower right corner.

## II. Print Job Routing

For ESC/POS emulation, it is necessary to enable this setting to ensure printouts are parsed accurately. If the box is left unchecked, some applications may use Star Line Mode parsing, resulting in corrupted printing.



1. Click "Print Job Routing" in the left menu bar.
2. Place a check next to "Enable ESC/POS Routing".
3. Click "Apply Changes".

Congratulations! You have successfully configured the TSP100 for ESC/POS-styled print outs.



Star Micronics is a global leader in the manufacturing of small printers. We apply over 50 years of knowhow and innovation to provide elite printing solutions that are rich in stellar reliability and industry-respected features. Offering a diverse line of Thermal, Hybrid, Mobile, Kiosk and Impact Dot Matrix printers, we are obsessed with exceeding the demands of our valued customers every day.

We have a long history of implementations into Retail, Point of Sale, Hospitality, Restaurants and Kitchens, Kiosks and Digital Signage, Gaming and Lottery, ATMs, Ticketing, Labeling, Salons and Spas, Banking and Credit Unions, Medical, Law Enforcement, Payment Processing, and more!

High Quality POS Receipts, Interactive Coupons with Triggers, Logo Printing for Branding, Advanced Drivers for Windows, Mac and Linux, Complete SDK Packages, Android, iOS, Blackberry Printing Support, OPOS, JavaPOS, POS for .NET, Eco-Friendly Paper and Power Savings with Reporting Utility, ENERGY STAR, MSR Reading, *future*PRNT, StarPRNT... How can Star help you fulfill the needs of your application?

Don't just settle on hardware that won't work as hard as you do. Demand everything from your printer. Demand a Star!

### Star Micronics Worldwide

Star Micronics Co., Ltd.  
536 Nanatsushinya  
Shimizu-ku, Shizuoka 424-0066  
Japan  
+81-54-347-2163  
<http://www.star-m.jp/eng/index.htm>

Star Micronics America, Inc.  
1150 King Georges Post Road  
Edison, NJ 08837  
USA  
1-800-782-7636  
+1-732-623-5500  
<http://www.starmicronics.com>

Star Micronics EMEA  
Star House  
Peregrine Business Park, Gomm Road  
High Wycombe, Buckinghamshire HP13 7DL  
UK  
+44-(0)-1494-471111  
<http://www.star-emea.com>

Star Micronics Southeast Asia Co., Ltd.  
Room 2902C. 29th Fl. United Center Bldg.  
323 Silom Road, Silom Bangrak, Bangkok 10500  
Thailand  
+66-2-631-1161 x 2  
<http://www.starmicronics.co.th/>