



PayPoint[®] Plus for Windows[®] Quick Start Guide

Version 1.0.0

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Revisions

Date	Description
6/18/2019	Initial release
8/8/2019	Added information to “Barcode Scanner Setup” section covering exporting/importing configuration files and printing configuration barcodes.

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Overview - PayPoint Plus for Windows

The PayPoint Plus for Windows is an All-In-One point-of-sale (POS) solution that is both stylish and functional. The system comes with a rotating 15.6-inch touchscreen display, fully-integrated peripherals – 2D barcode scanner, 3-inch receipt printer, encryptable MSR, and full-sized 16-inch cash drawer – and plenty of ports for additional third-party peripherals. Under the hood is a powerful Intel 8th generation i5 processor, 8GB of RAM (expandable to 32GB), 128GB Solid State Drive (SSD), and running on Windows 10. You can even order a PayPoint Plus with no OS, enabling you to install your own SUSE Linux or Ubuntu operating systems.

Key Specifications

Operating System	Windows 10 IoT LTSB or No OS
Processor	Intel Coffee Lake Core i5-8500T (9M Cache, up to 3.50 GHz)
Memory (RAM)	8GB 2666MHz DDR4 SO-DIMM on 1 of 2 slots (Expandable to 32GB)
Storage	128GB M.2 SSD, 72 TBW
Wireless	802.11 b/g/n/ac; Bluetooth: 5.0
I/O Ports	4 x Type A USB 2.0, 2 x RJ45 serial ports, 1 x micro HDMI port, 1 x 12V powered USB port, 1 x RJ12 cash drawer port, 1 x LAN

Integrated Peripherals



Star Micronics TSP100III

- Website: <https://www.starmicronics.com/pages/tsp100>
- 3-inch printer, supports standard 80mm width paper, and prints speeds of 230mm/sec.
- Auto-cutter
- Supports multiple languages, barcodes and logo printing
- Support ESC/POS (Epson Emulation) mode
- Star software (futurePRNT) pre-installed for easy configuration



Elo Cash Drawer

- Full size 16-inch industry-standard cash drawer with 3-position lock
- Opened by receipt printer
- Second cash drawer can be added using I/O port



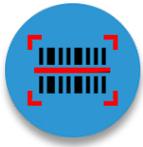
Honeywell N3680 1D/2D Barcode Scanner

- Website: <https://www.honeywellaidc.com/products/oem-scan-engines/2d-imagers/n3680-series>
- Supports VCP (Virtual COM Port), Keyboard, and HID modes
- Optional plug-ins available (EasyDL™) to scan and parse data from drivers licenses in the United States and Canada.
- Honeywell software (EZConfig) pre-installed for easy configuration



MagTek Dynamag Magnetic Stripe Reader (MSR)

- <https://www.magtek.com/product/dynamag>
- 3-track encryptable Magnetic Stripe Reader (MSR).
- Secured by the MagneSafe Security Architecture.
- MagTek software (USBMSR Demo) pre-installed for easy configuration

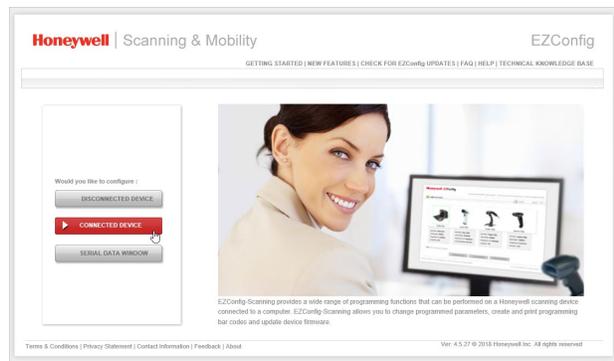
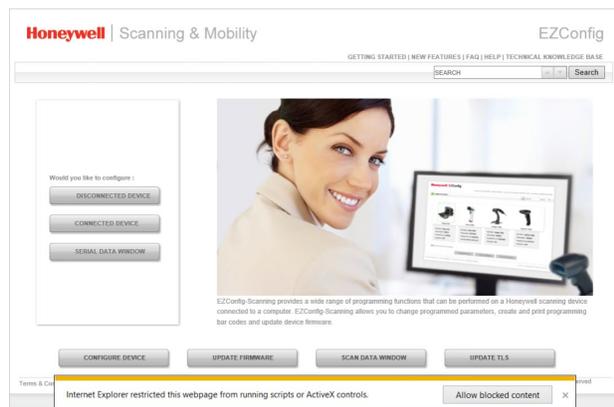
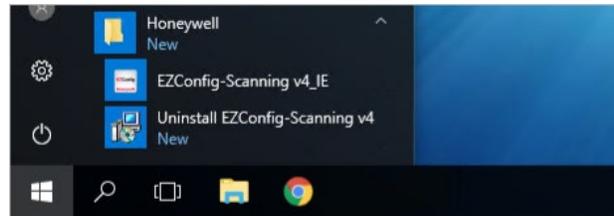


Barcode Scanner Setup

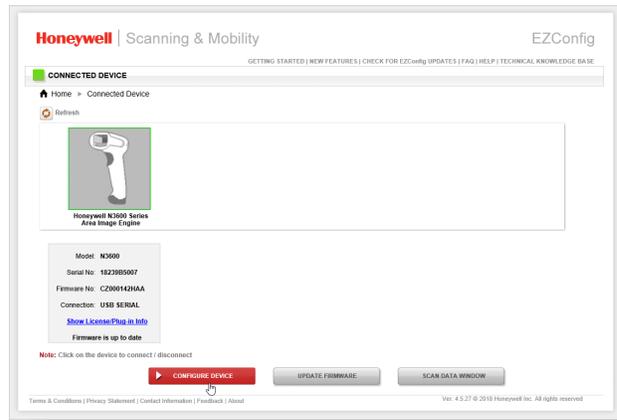
Use the Honeywell EZConfig tool to setup and configure the built-in 1D/2D Barcode Scanner.

Install and Launch the EZConfig Tool

1. Download/install Honeywell EZConfig tools
 - Download from [here](#)
2. Launch EZConfig tool
3. When launching the EZConfig tool, if prompted, make sure to allow your web browser to running scripts.
4. Click **Connected Device**

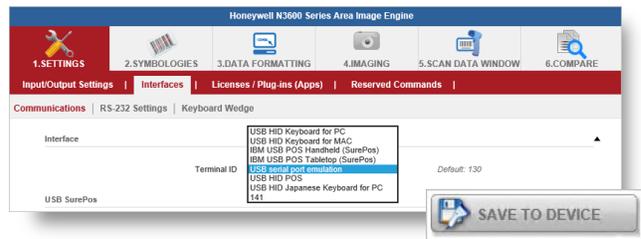


5. Click **Configure Device**



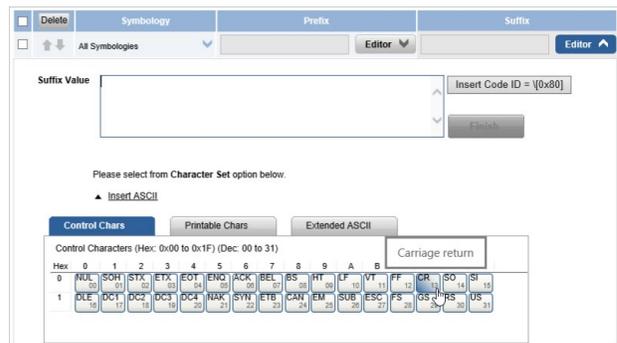
Switch Interface Mode to Keyboard

- By default, the barcode reader interface is set to USB VCP (Virtual COM Port). In the EZConfig tool, this is listed as “USB Serial Port Emulation.”
- To switch to keyboard mode, go to the “SETTINGS > Interfaces > Communications” area. Select the “USB HID Keyboard for PC” option from the “Terminal ID” list.
- Click **Save to Device** when done



Add Carriage Return

- In the “DATA FORMATTING > Prefix/Suffix” area, click the **Editor** button under the “Suffix” column of the table
- In the “Control Chars” tab, click the **CR** option



11. Click **Finish**

12. Click **Save to Device** when done

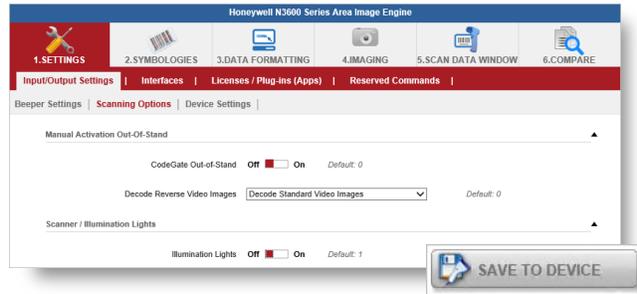


Turn off the Illumination Light

13. To turn off Illumination Lights, go to the “SETTINGS > Input/Output Settings > Scanning Options” area

14. Toggle the “Illumination Lights” switch to the **Off** position

15. Click **Save to Device** when done

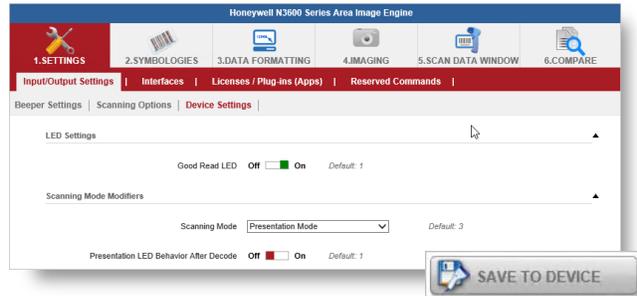


Keep the LED Light Off After Scan

16. To keep the LED Lights off after scanning, go to the **SETTINGS > Input/Output Settings > Device Settings** area

17. Toggle the “Presentation LED Behavior After Decode” switch to the **Off** position

18. Click **Save to Device** when done



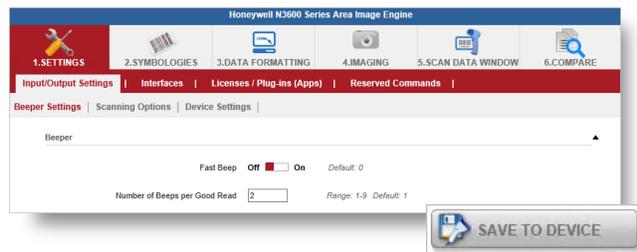
Adjust Beeper Settings

19. To adjust various beeper-related settings, go to the “SETTINGS > Input/Output Settings > Beeper Settings” area

20. Make all the necessary changes, such as:

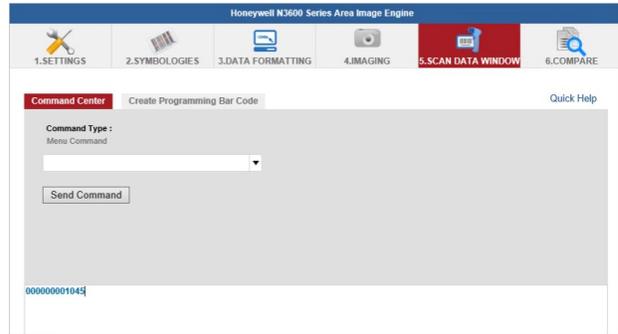
- Number of Beeps per Good Read (1-9)
- Volume (High, Low, Medium, Off)

21. Click **Save to Device** when done



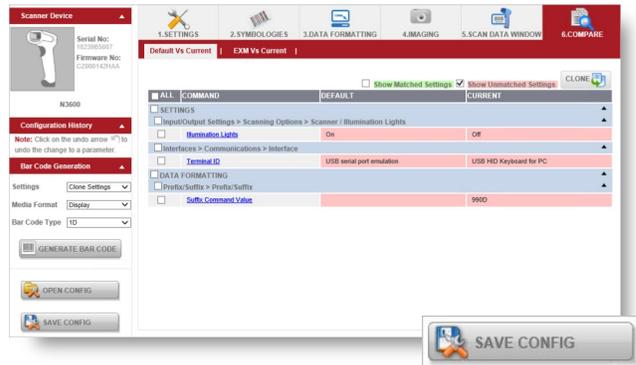
Perform Test Scans

- To perform a test scan, go to the “SCAN DATA WINDOW > Command Center” area
- Scan your barcode. If successful, barcode number should appear onscreen.

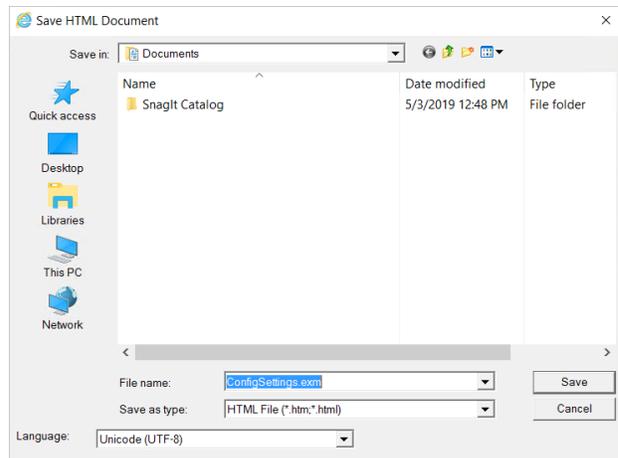


Export/Import Configuration Settings

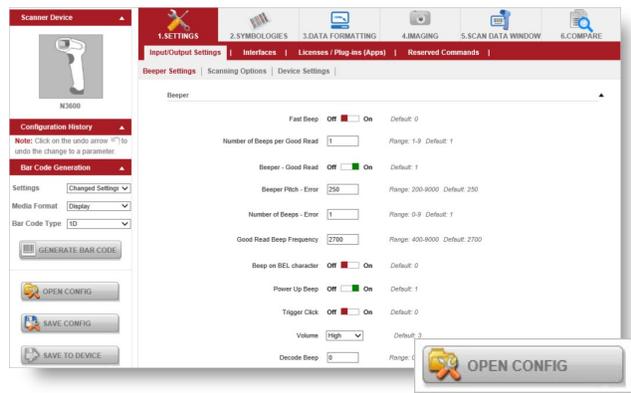
- To view all current configuration settings, go to the “COMPARE > Default Vs Current” area
- When ready, click the **Save Configuration** button



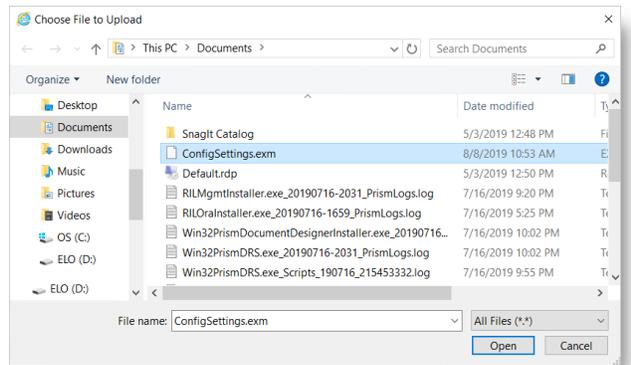
- Adjust the confirmation file (EXM) name if necessary and click **Save**



- To import an existing configuration file (in order to configure another Honeywell N3680 1D/2D Barcode Scanner), click **Open Configuration**



- Browse to the configuration file and click **Open**



- Once imported, make sure to click **Save to Device** when done



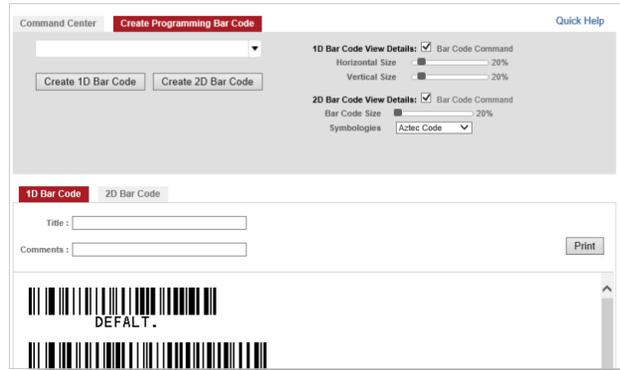
Create Programming Barcodes

- On the side panel, go to the “Bar Code Generation” area and specify the following settings:
 - Settings: Clone Settings
 - Media Format: Display
 - Bar Code Type: 1D (or 2D)
- Click **Generate Bar Code**

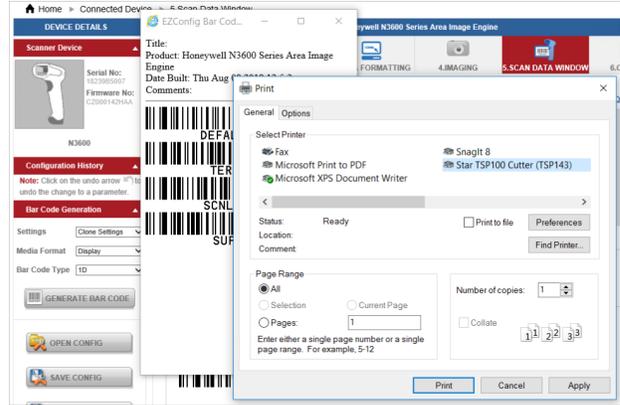


32. Optionally increase the printed barcode size

33. When ready, click **Print**



34. Select the appropriate printer and click **Print**



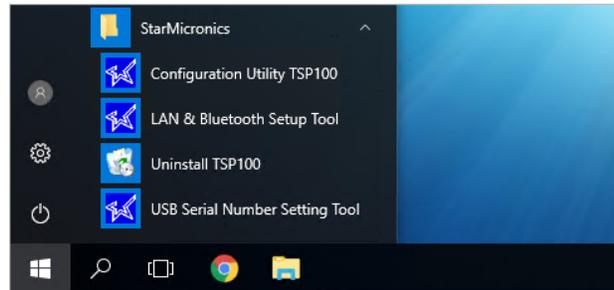


Receipt Printer and Cash Drawer Setup (Windows)

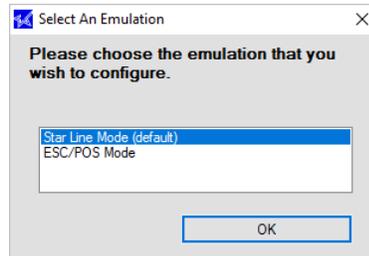
The built-in receipt printer and cash drawer supports both Windows and OPOS application. Use the Star Micronics Configuration Utility (futurePRNT) to setup the receipt printer and cash drawer for a Windows application.

Launch the Configuration Utility

1. From the Windows Start Menu, launch the Star Micronics **Configuration Utility TSP100** application



2. Select the appropriate target emulation mode – Star Line Mode vs. ESC/POS Mode
3. Click **OK**

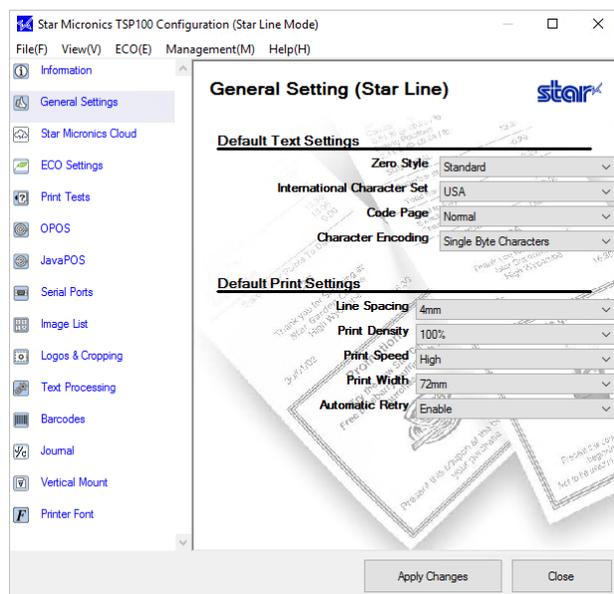


Establish Text and Print Settings

4. Establish all required settings relating to text and print settings.
 - **Zero Style** – select the “slashed” option to display zeros with a slash
 - **International Character Set** – select the character set used by your country
 - **Character Encoding** – for Asian languages that use double-byte characters, select the appropriate language
 - **Print Width** – select the “51mm” option if using 58-mm paper

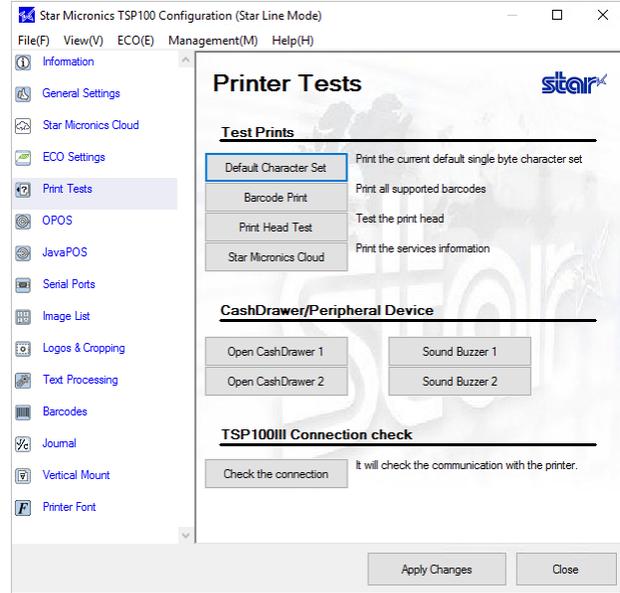
Note: for full list of printer settings, see the end of this section.

5. When done, click **Apply Changes**



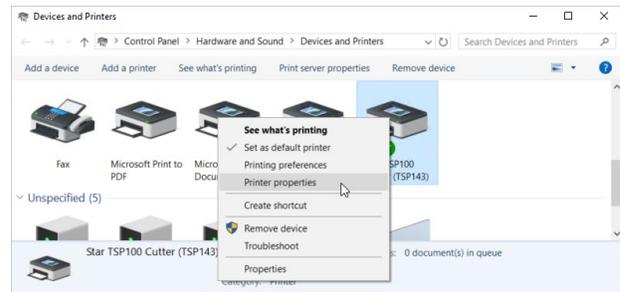
Perform Test Prints and Pop the Drawer

- In the “Print Tests” area, click each of these buttons to perform a print test:
 - Default Character Set** – prints out the international character set specified in the “General Settings” area
 - Barcode Print** – prints a sample of each supported barcode
- Click **Open Cash Drawer 1** to pop the cash drawer
- Click **Check the connection** to check whether you can communicate with the printer. If successfully, the LED (blue) light above the printer will blink.

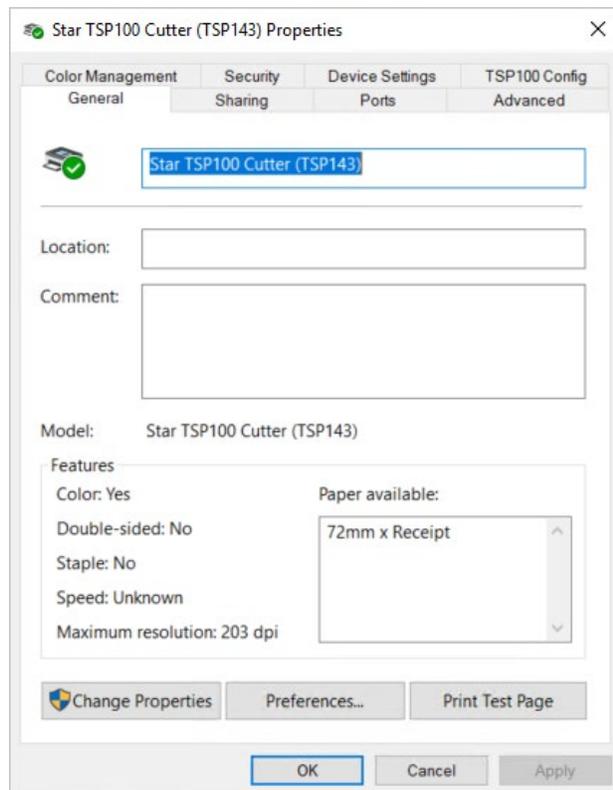


Connect Cash Drawer to Receipt Printer

- In Windows, go to the “Devices and Printers” area.
- Right-click on the Star TSP100 printer and choose the “Printer properties” option



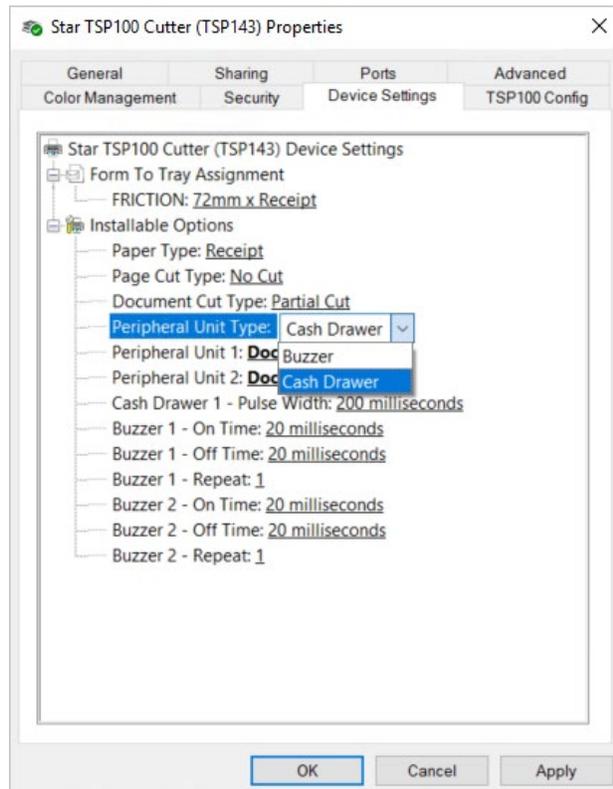
11. On the “General” tab, click **Change Properties**



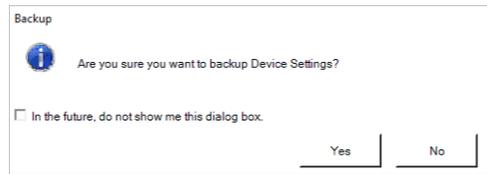
12. On the “Device Settings” tab, establish the following settings:

- Peripheral Unit Type = Cash Drawer
- Peripheral Unit 1: Document Bottom
- Peripheral Unit 2: Document Bottom

13. Click **Apply**

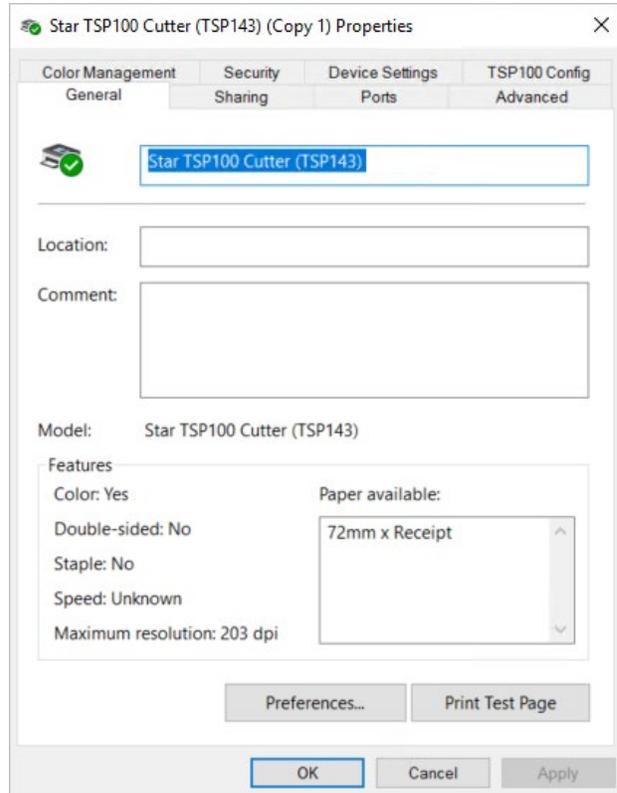


- Click No when prompted to backup device settings



- On the “General” tab, click **Print Test Page**

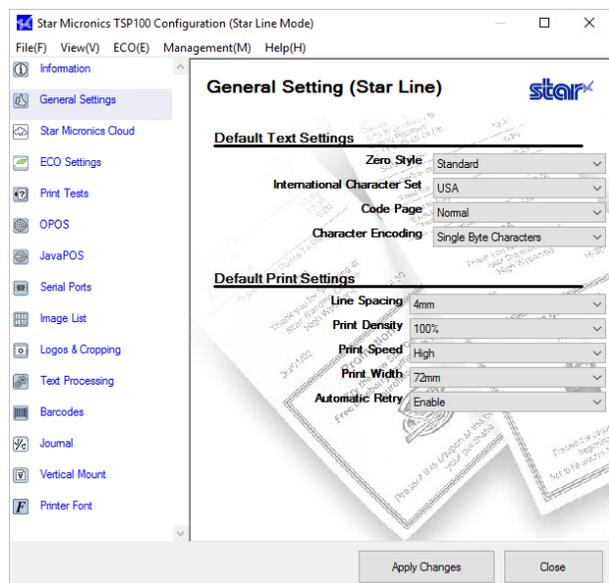
- Verify that the cash drawer opens after the test page is printed



Complete Text and Print Settings

- Establish all required settings relating to text and print settings.

- **Zero Style** – select the “slashed” option to display zeros with a slash
- **International Character Set** – select the character set used by your country
- **Code Page** – for additional special characters, select your language
- **Character Encoding** – for Asian languages that use double-byte characters, select the appropriate language
- **Font Type – ESC/POS Mode only** – select the “Large” option for rounder, bulkier-looking font
- **Character Space (Right) – ESC/POS Mode only** – if using Large font, select to add extra spacing (in dot units) to the right of each character to improve appearance.



- **Line Spacing** – select the “3mm” option to achieve shorter (more compact) receipts. Note: this may be harder to read.
- **Print Density** – if necessary, adjust the level of contrast to achieve better print quality for the printer paper used
- **Print Speed** – if necessary, select a lower print speed to achieve better print quality for the printer paper used
- **Print Width** – select the “51mm” option if using 58-mm paper
- **Automatic Retry** – select the “Disabled” option if you DO NOT want the printer to resend data (up to 5 times) when a printing error occurs
- **Character/Line (font A) – ESC/POS Mode only** – select the “48 char.” option to use the standard for Star Line mode.
- **Resolution Pitch – ESC/POS Mode only** – select the “Star standard” option to use the Star Line mode’s standard resolution (i.e. characters are smaller than on ESC/POS printers)

18. When done, click **Apply Changes**



Receipt Printer and Cash Drawer Setup (OPOS)

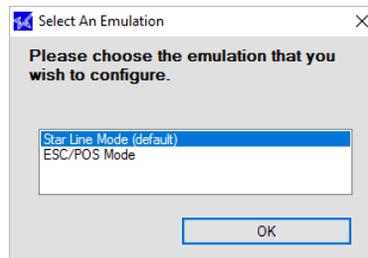
The built-in receipt printer and cash drawer supports both Windows and OPOS application. Before using with an OPOS application, use the Star Micronics Configuration Utility (futurePRNT) to register the receipt printer and cash drawer.

Launch the Configuration Utility

1. From the Window Start Menu, launch the Star Micronics **Configuration Utility TSP100** application



2. Select the appropriate target emulation mode – Star Line Mode vs. ESC/POS Mode
3. Click **OK**

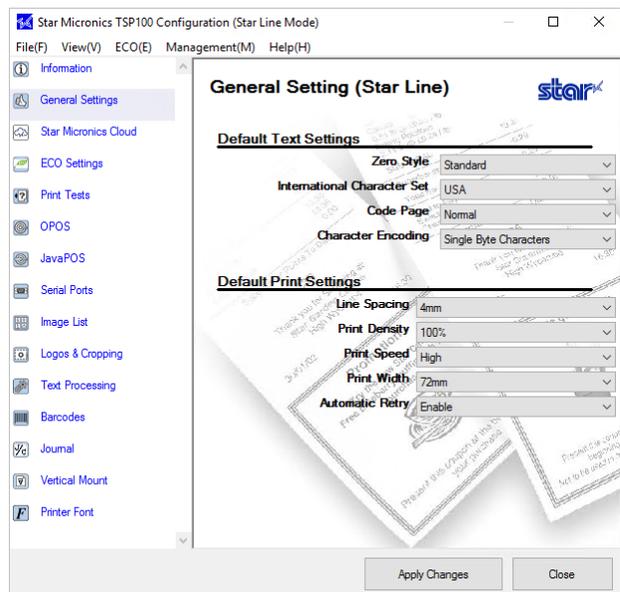


Establish Text and Print Settings

4. Establish all required settings relating to text and print settings.
 - **Zero Style** – select the “slashed” option to display zeros with a slash
 - **International Character Set** – select the character set used by your country
 - **Character Encoding** – for Asian languages that use double-byte characters, select the appropriate language
 - **Print Width** – select the “51mm” option if using 58-mm paper

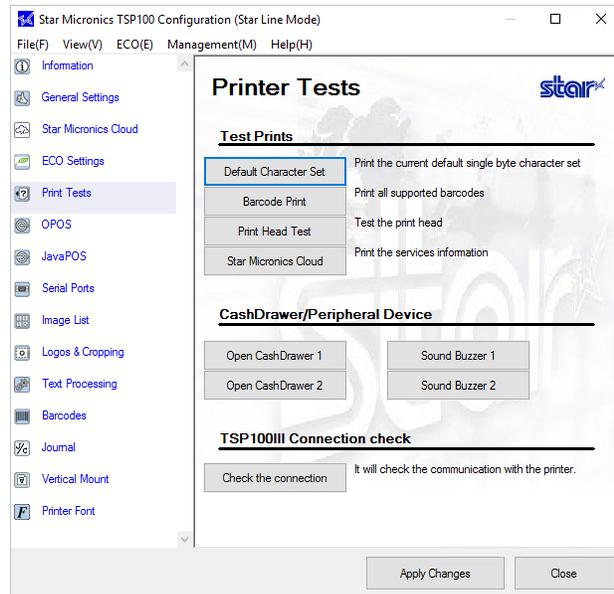
Note: for full list of printer settings, see the end of this section.

5. When done, click **Apply Changes**



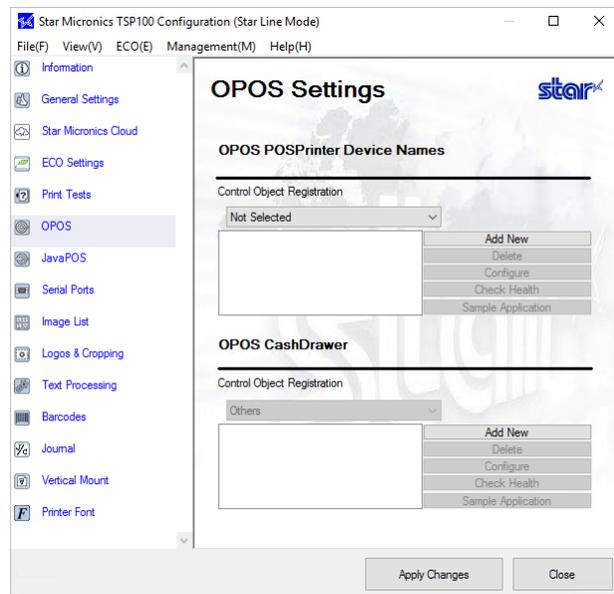
Perform Test Prints and Pop the Drawer

- In the “Print Tests” area, click each of these buttons to perform a print test:
 - Default Character Set** – prints out the international character set specified in the “General Settings” area
 - Barcode Print** – prints a sample of each supported barcode
- Click **Open Cash Drawer 1** to pop the cash drawer
- Click **Check the connection** to check whether you can communicate with the printer. If successfully, the LED (blue) light above the printer will blink.

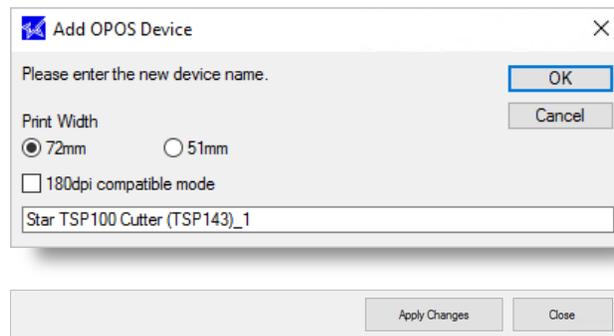


Register and Configure the Printer (OPOS)

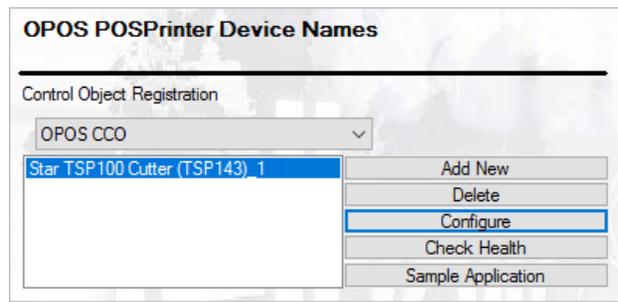
- In the “OPOS” area, go to the “OPOS POS Printer Device Names” section and click **Add New**



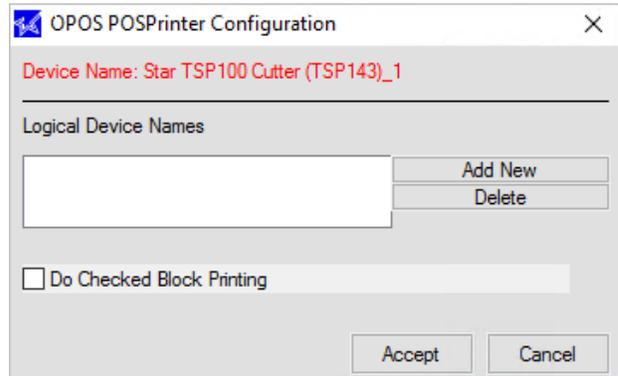
- The Star Printer name is auto-populated in the name field
- Select the appropriate print width (that matches the print width established in the “General Settings” area)
- Click **OK**
- Click **Apply Changes** at the bottom of the screen



14. Select the newly-added printer and click **Configure**

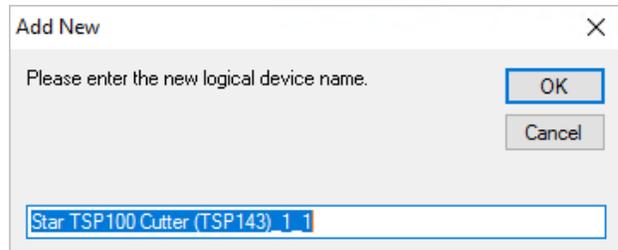


15. Click **Add New**



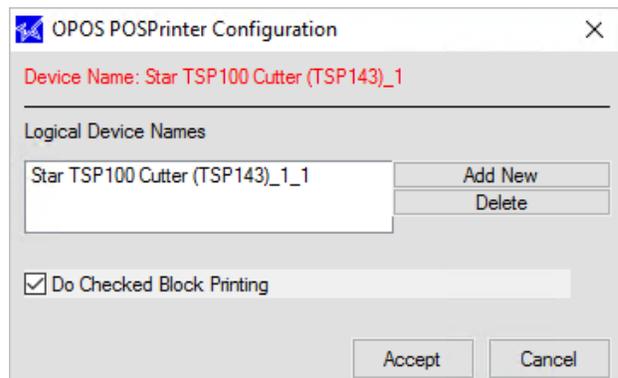
16. The Star Printer name is auto-populated in the name field

17. Click **OK**

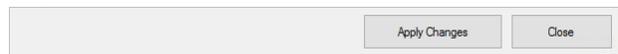


18. Check the “Do Checked Block Printing” setting

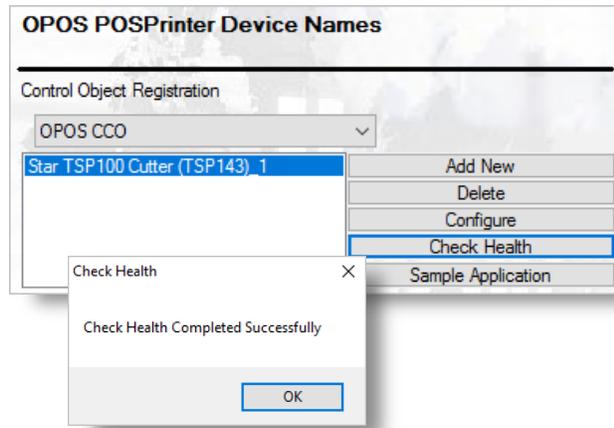
19. Click **Accept**



20. Click **Apply Changes** at the bottom of the screen

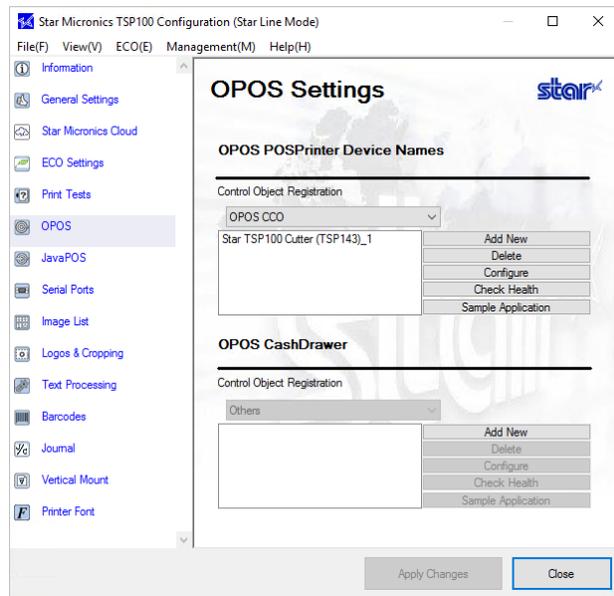


21. Select the printer and click **Check Health**. If successful, a sample receipt will be printed to show the printer is printing properly.
22. Click **OK** to close the confirmation dialog

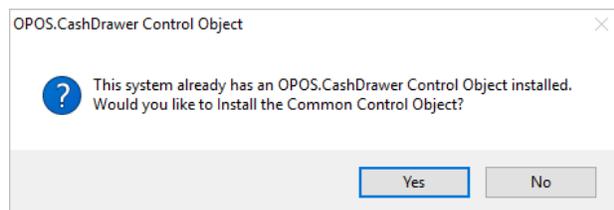


Register and Configure the Cash Drawer (OPOS)

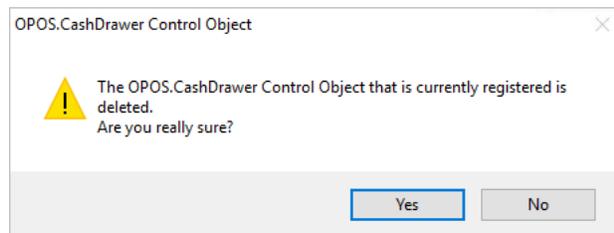
23. In the “OPOS” area, go to the “OPOS CashDrawer” section and click **Add New**



24. Click **Yes**

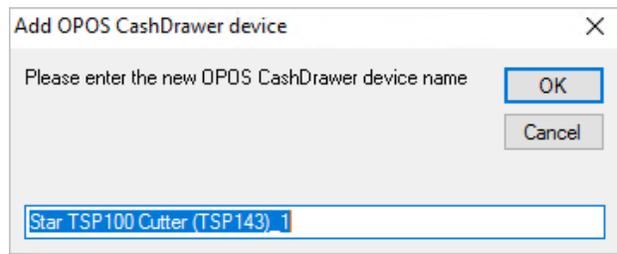


25. Click **Yes**

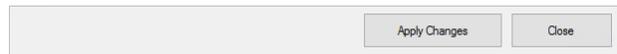


26. The Star Printer name is auto-populated in the name field.

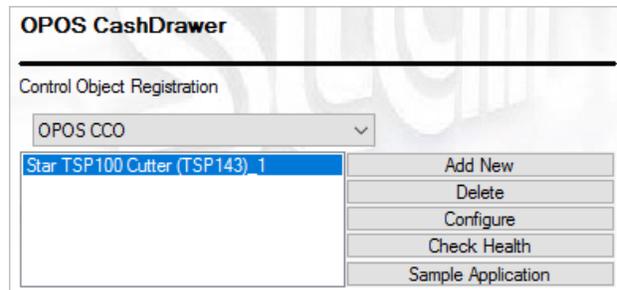
27. Click **OK**



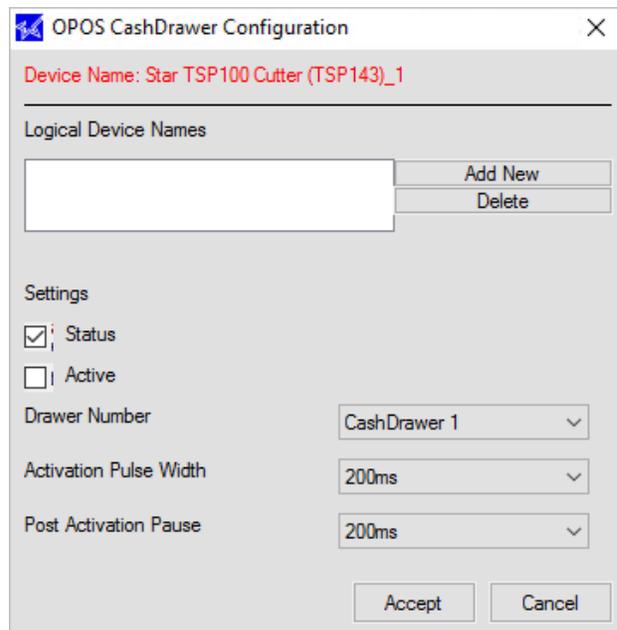
28. Click **Apply Changes** at the bottom of the screen



29. Select the newly-added cash drawer and click **Configure**



30. Click **Add New**

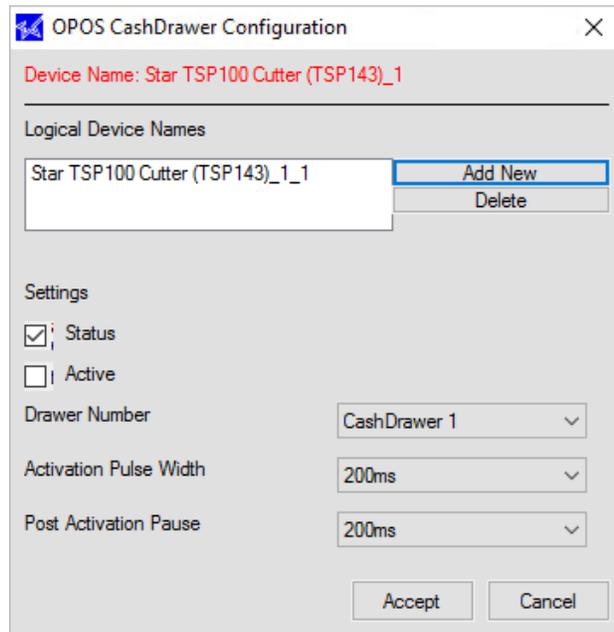


31. The Star Printer name is auto-populated in the name field

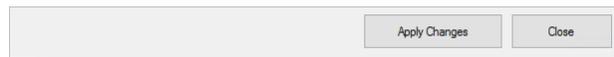
32. Click **OK**



33. Keep the default settings and click **Accept**

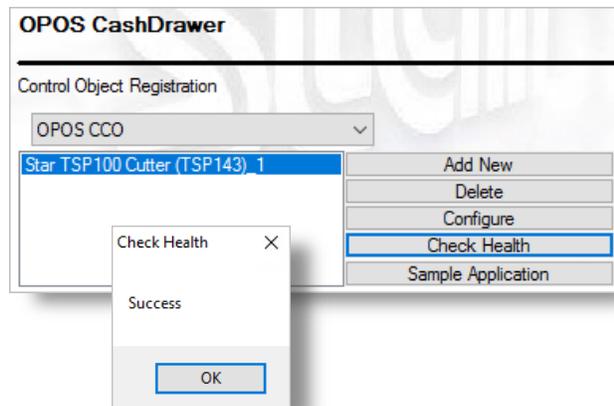


34. Click **Apply Changes** at the bottom of the screen



35. Select the printer and click **Check Health**. If successful, the cash drawer will open to show the drawer is working properly.

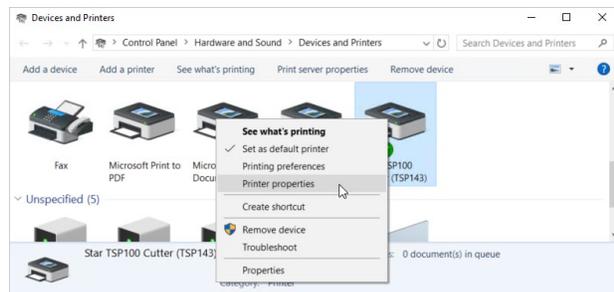
36. Click **OK** to close the confirmation dialog



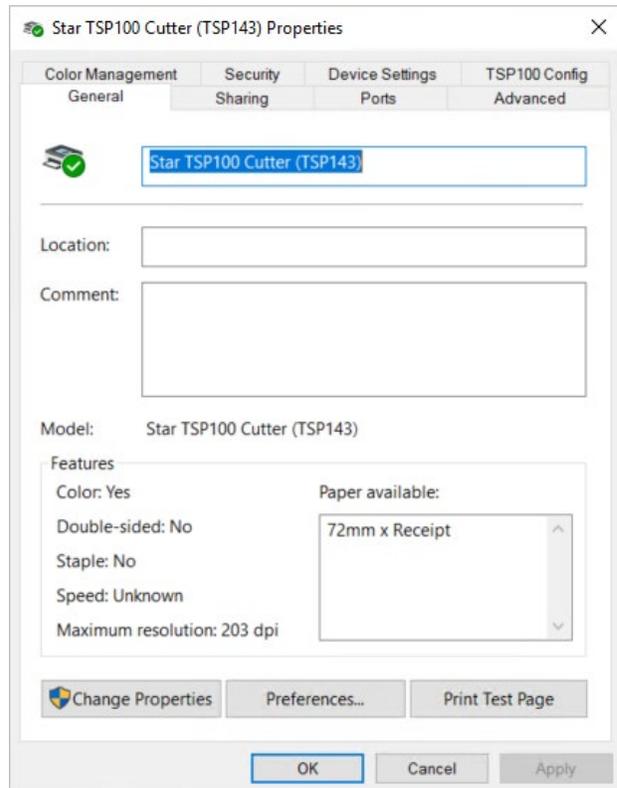
Connect Cash Drawer to Receipt Printer

37. In Windows, go to the “Devices and Printers” area.

38. Right-click on the Star TSP100 printer and choose the “Printer properties” option



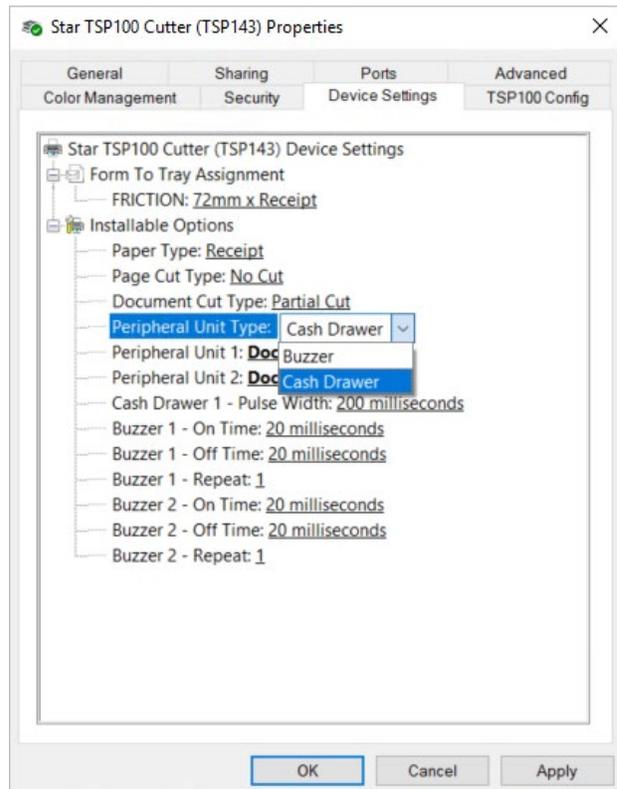
39. On the “General” tab, click **Change Properties**



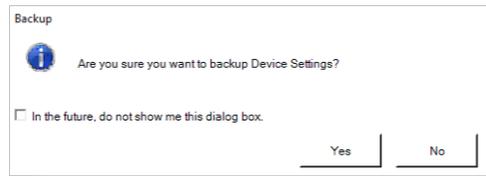
40. On the “Device Settings” tab, establish the following settings:

- Peripheral Unit Type = Cash Drawer
- Peripheral Unit 1: Document Bottom
- Peripheral Unit 2: Document Bottom

41. Click **Apply**

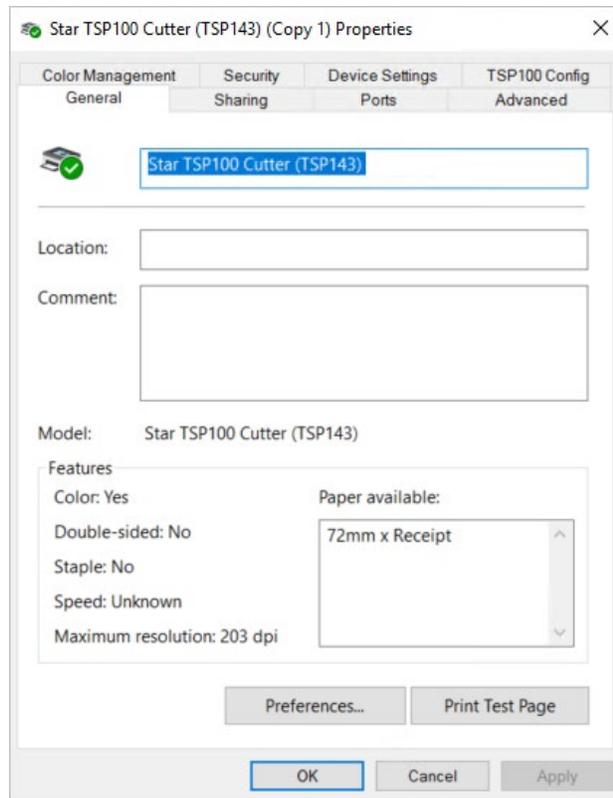


42. Click No when prompted to backup device settings



43. On the “General” tab, click **Print Test Page**

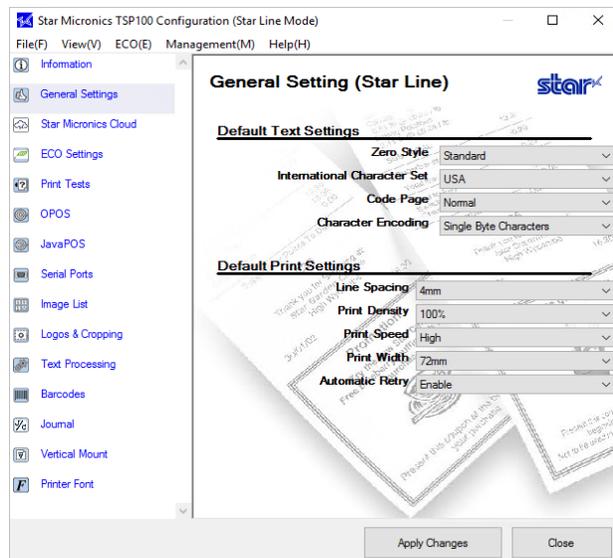
44. Verify that the cash drawer opens after the test page is printed



Complete Text and Print Settings

45. Establish all required settings relating to text and print settings.

- **Zero Style** – select the “slashed” option to display zeros with a slash
- **International Character Set** – select the character set used by your country
- **Code Page** – for additional special characters, select your language
- **Character Encoding** – for Asian languages that use double-byte characters, select the appropriate language
- **Font Type – ESC/POS Mode only** – select the “Large” option for rounder, bulkier-looking font
- **Character Space (Right) – ESC/POS Mode only** – if using Large font, select to add extra spacing (in dot units) to the right of each character to improve appearance.



- **Line Spacing** – select the “3mm” option to achieve shorter (more compact) receipts. Note: this may be harder to read.
- **Print Density** – if necessary, adjust the level of contrast to achieve better print quality for the printer paper used
- **Print Speed** – if necessary, select a lower print speed to achieve better print quality for the printer paper used
- **Print Width** – select the “51mm” option if using 58-mm paper
- **Automatic Retry** – select the “Disabled” option if you DO NOT want the printer to resend data (up to 5 times) when a printing error occurs
- **Character/Line (font A) – ESC/POS Mode only** – select the “48 char.” option to use the standard for Star Line mode.
- **Resolution Pitch – ESC/POS Mode only** – select the “Star standard” option to use the Star Line mode’s standard resolution (i.e. characters are smaller than on ESC/POS printers)

46. When done, click **Apply Changes**

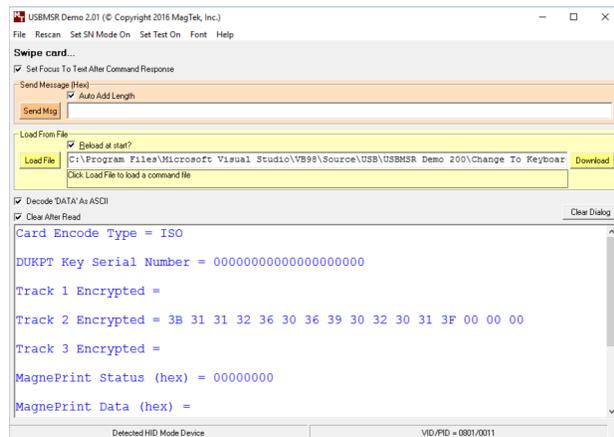
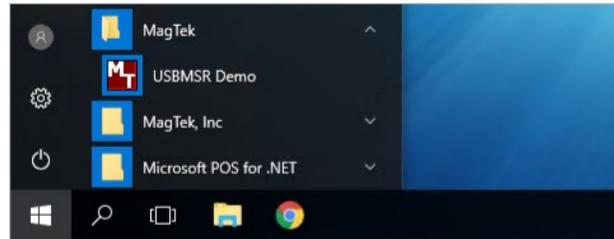


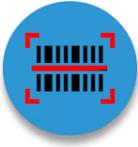
Magnetic Stripe Reader Setup

If necessary, use the MagTek Demo tool to test the built-in magnetic stripe reader (MSR).

Perform a Test Scan

1. From the Windows Start Menu, launch the MagTek **USBMSR Demo** application
2. Scan any card with a magnetic strip
3. Verify that data is display in the window



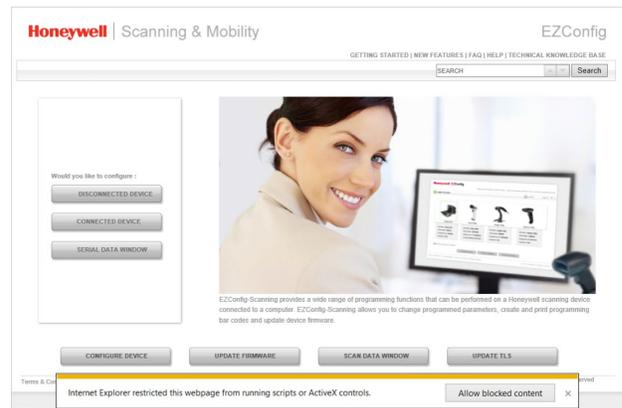


Install/Configure Honeywell EasyDL™ Plugin

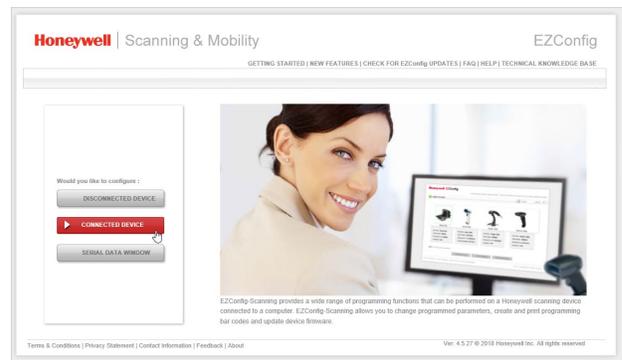
Optional plug-in to scan and parse data from drivers licenses in the United States and Canada.

Install and License the EasyDL Plug-in Software

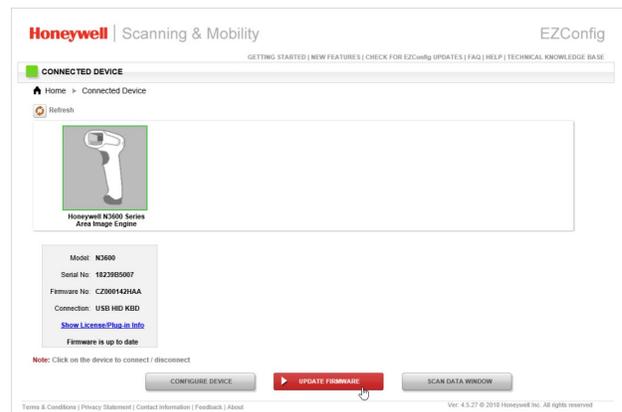
1. Purchase a Honeywell EasyDL license
 - Print out the license activation barcode for later use
2. Download/install Honeywell EZConfig tools
 - Download from [here](#)
3. Launch the EZConfig tool
4. When launching the EZConfig tool, if prompted, make sure to allow your web browser to run scripts.



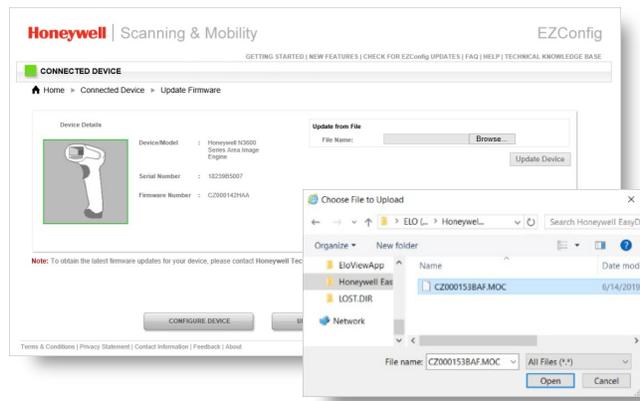
5. Click **Connected Device**



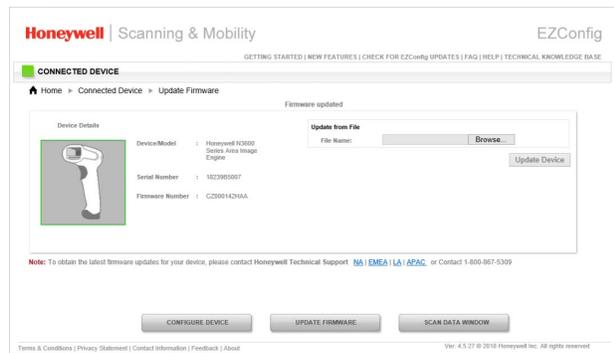
6. Click **Configure Device**



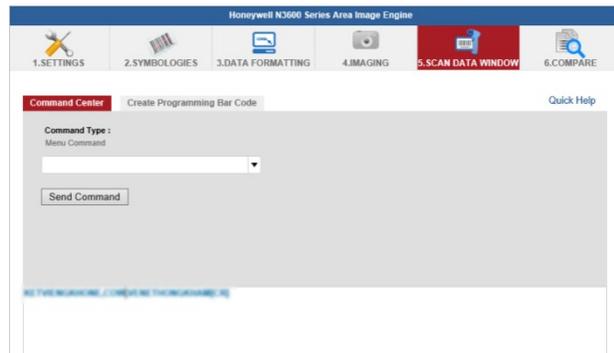
7. In the “Update from File” area, click **Browse**
8. Locate/choose the EasyDL software and click **Open**
9. When ready, click **Update Device**



10. To activate the EasyDL license, click **Scan Data Window**

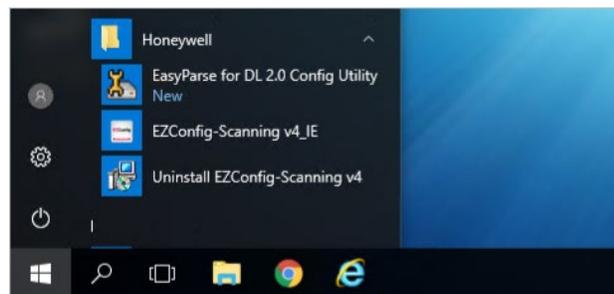


11. Scan the provided license code
12. Conduct a test scan using a driver’s license.
 - Verify that the first name, middle name, and last name is displayed clearly

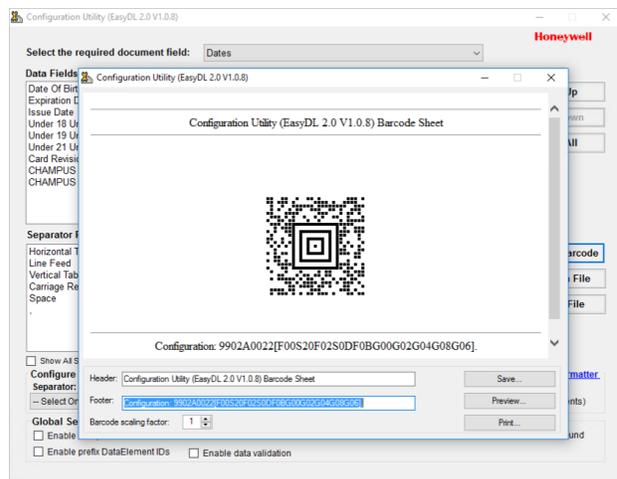
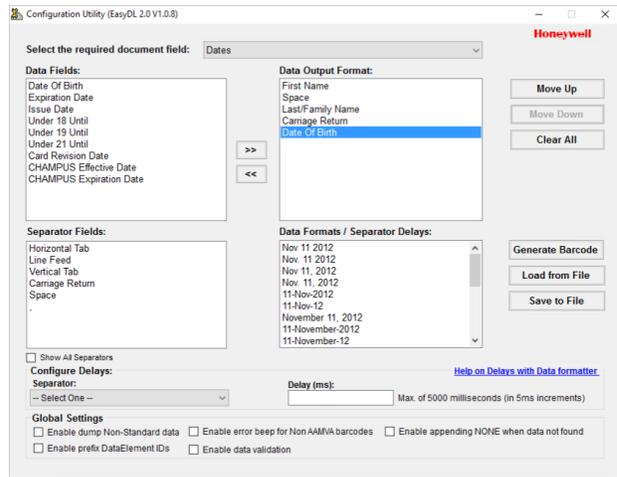


Configure the EasyDL Software

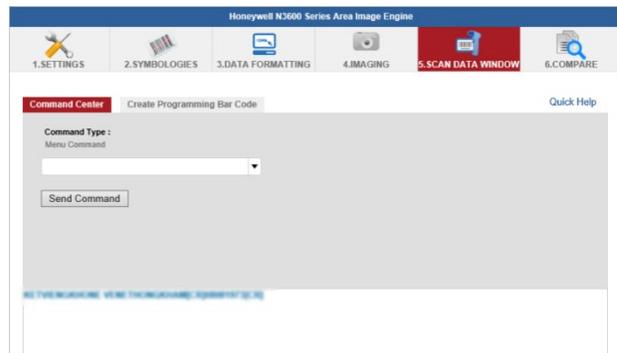
13. Download and install the EasyDL 2.0 Configuration Utility
 - Download utility from [here](#)
14. Launch the EasyDL 2.0 Configuration Utility (as an administrator)



15. Select a document field e.g. “Names of person”
16. From the list of data fields (for the selected document field), select the required data fields
17. Select another document field e.g. “Dates”
18. From the list of data fields (for the selected document field), select the required data fields
19. Select the required separator fields and reposition them (move up / move down) in between the selected data fields
20. When done, click the **Generate Barcode** button
21. Click **Print**



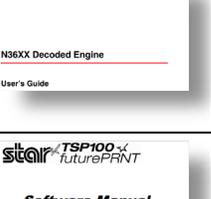
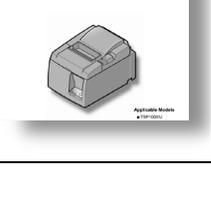
22. Return to the EZConfig tool and go to the “Scan Data Window” area
23. Scan the EasyDL configuration barcode
24. Conduct a test scan using a driver’s license.
 - Verify that the information displayed is correct based on the configuration settings established





Documentation

Below is a list of all relevant documentation for the PayPoint Plus for Windows as well as the integrated peripherals.

Documentation	
Technical Specification – PayPoint Plus for Windows	
User's Guide – PayPoint Plus for Windows	
Developer's Guide – PayPoint Plus for Windows	
User's Guide – Honeywell N3680	
User's Guide – STAR TSP100	



Setup Checklist - PayPoint Plus for Windows

Barcode Scanner Setup

- 1 Launch EZConfig Tool**
 - Download/Install [EZConfig](#) tool
 - Launch Honeywell EZConfig tool. If prompted, allow browser to running scripts.
 - Click **Connected Device**
 - Click **Configure Device**
- 2 Switch Interface Mode to Keyboard**
 - Go to "SETTINGS > Interfaces > Communications" area.
 - Select "USB HID Keyboard for PC" option from "Terminal ID" list.
 - Click **Save to Device** when done
- 3 Add Carriage Return**
 - In "DATA FORMATTING > Prefix/Suffix" area, click **Editor button** under "Suffix" column of table
 - In "Control Chars" tab, click **CR** option
 - Click **Finish**
 - Click **Save to Device** when done
- 4 Turn off Illumination Light**
 - To turn off Illumination Lights, go to "SETTINGS > Input/Output Settings > Scanning Options" area
 - Toggle "Illumination Lights" switch to Off position
 - Click **Save to Device** when done
- 5 Keep LED Light Off After Scan**
 - To keep LED Lights off after scanning, go to "SETTINGS > Input/Output Settings > Device Settings" area
 - Toggle "Presentation LED Behavior After Decode" switch to Off position
 - Click **Save to Device** when done
- 6 Adjust Beeper Settings**
 - To adjust various beeper-related settings, go to "SETTINGS > Input/Output Settings > Beeper Settings" area
 - Make all necessary changes, such as:
 - # of Beeps per Good Read (1-9)
 - Volume (High, Low, Medium, Off)
 - Click **Save to Device** when done
- 7 Perform Test Scans**
 - To perform a test scan, go to "SCAN DATA WINDOW > Command Center" area
 - Scan barcode
 - If successful, barcode number should appear onscreen

Receipt Printer/Cash Drawer Setup (Windows)

- 1 Launch Configuration Utility**
 - Launch Star Micronics Configuration Utility TSP100 application
 - Select target emulation mode – Star Line Mode vs. ESC/POS Mode
 - Click **OK**
 - 2 Establish Text and Print Settings**
 - Establish all required text/print settings
 - When done, click **Apply Changes**
 - 3 Perform Test Prints and Pop Drawer**
 - In "Print Tests" area, click each button to perform a print test.
 - Click **Open Cash Drawer 1** to pop cash drawer
 - Click **Check the connection** to check communication with printer. If successfully, LED (blue) light above printer will blink.
- 3A Register/Configure Printer (OPOS)**

3B Register/Configure Cash Drawer (OPOS)
- 4 Connect Cash Drawer to Receipt Printer**
 - In Windows, go to "Devices and Printers" area.
 - Right-click on Star TSP100 printer and choose "Printer properties" option
 - On "General" tab, click **Change Properties**
 - On "Device Settings" tab, establish following settings:
 - Peripheral Unit Type = Cash Drawer
 - Peripheral Unit 1 = Document Bottom
 - Peripheral Unit 2 = Document Bottom
 - Click **Apply**
 - Click **No** when prompted to backup device settings
 - On "General" tab, click **Print Test Page**
 - If successful, cash drawer opens after test page is printed

Magnetic Stripe Reader Setup

- 1 Perform a Test Scan**
 - From Window Start Menu, launch MagTek USBMSR Demo application
 - Scan any card with magnetic stripe
 - If successful, data is displayed in window

Receipt Printer/Cash Drawer Setup (OPOS)

- 3A Register and Configure the Printer (OPOS)**
 - In "OPOS" area, go to "OPOS POS Printer Device Names" section and click **Add New**
 - Star Printer name is auto-populated in name field
 - Select print width (that matches print width established in "General Settings" area)
 - Click **OK**
 - Click **Apply Changes** at bottom of screen
 - Select newly-added printer and click **Configure**
 - Click **Add New**
 - Star Printer name is auto-populated in name field
 - Click **OK**
 - Check "Do Checked Block Printing" setting
 - Click **Accept**
 - Click **Apply Changes** at bottom of screen
 - Select printer and click **Check Health**
 - If successful, a sample receipt will be printed
 - Click **OK** to close confirmation dialog
- 3B Register and Configure the Cash Drawer (OPOS)**
 - In "OPOS" area, go to "OPOS CashDrawer" section and click **Add New**
 - Click **Yes** to install Common Control Object
 - Click **Yes**
 - Star Printer name is auto-populated in name field.
 - Click **OK**
 - Click **Apply Changes** at bottom of screen
 - Select newly-added cash drawer and click **Configure**
 - Click **Add New**
 - Star Printer name is auto-populated in name field
 - Click **OK**
 - Keep default settings and click **Accept**
 - Click **Apply Changes** at bottom of screen
 - Select printer and click **Check Health**
 - If successful, cash drawer will open
 - Click **OK** to close confirmation dialog



Headquarters:
670 N McCarthy Blvd, Milpitas,
CA 95035

Phone:
408.597.8000

Website:
<https://www.elotouch.com>
