

Barcode Printer

# TSC Console

*Thermal Transfer • Direct Thermal*



User Manual

# Copyright Information

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# Table of Contents

<b>1. Introduction</b>	<b>1</b>
<b>2. Getting Started</b>	<b>2</b>
<b>3. Interface Setup</b>	<b>3</b>
3.1 USB	3
3.2 COM and LPT	4
3.2.1 RS-232	4
3.2.2 Bluetooth	5
3.2.3 LPT	7
3.3 Network	8
3.3.1 Set Ethernet and Add to TSC Console Interface	8
3.3.2 Set Wi-Fi and Add to TSC Console Interface	10
3.3.3 Initialize the Printer Wi-Fi Setting	13
<b>4. Function</b>	<b>14</b>
4.1 Printer Configuration	15
4.1.1 Printer Configuration Overview	15
4.1.2 Printer Functions	16
4.1.3 Printer Information	17
4.1.4 Printer Setup - Common	18
4.1.5 Printer Setup - RS-232	19
4.1.6 Printer Setup - Bluetooth	19
4.1.7 Printer Setup - Wi-Fi	20
4.1.8 Printer Setup - Ethernet	21
4.1.9 Printer Setup – 802.1X (for Ethernet)	22
4.1.10 Printer Setup - SMTP (Simple Mail Transfer Protocol)	23
4.1.11 Printer Setup - SNTP (Simple Network Time Protocol)	24
4.1.12 Features Tab - Emulation	25
4.1.13 Features Tab – TPH Care	26
4.1.14 Features Tab – Smart Battery	27
4.2 SOTI Setup	28
4.3 Printer Records	29

<b>5. Tools</b> .....	<b>30</b>
5.1 Comm Tool .....	31
5.2 File Manager Tool .....	32
5.2.1 Download Files .....	33
5.2.2 Manage the Storage .....	34
5.3 Bitmap Font Manager .....	35
5.3.1 Download Fonts to Printer .....	36
5.4 Label Preview .....	37
<b>6. Advanced</b> .....	<b>38</b>
6.1 Group Manager .....	39
6.1.1 Group the Certain Interface .....	40
6.2 Users Manager .....	41
6.3 Manual Name Manager .....	42
6.4 Preference .....	43
<b>7. Revision History</b> .....	<b>44</b>

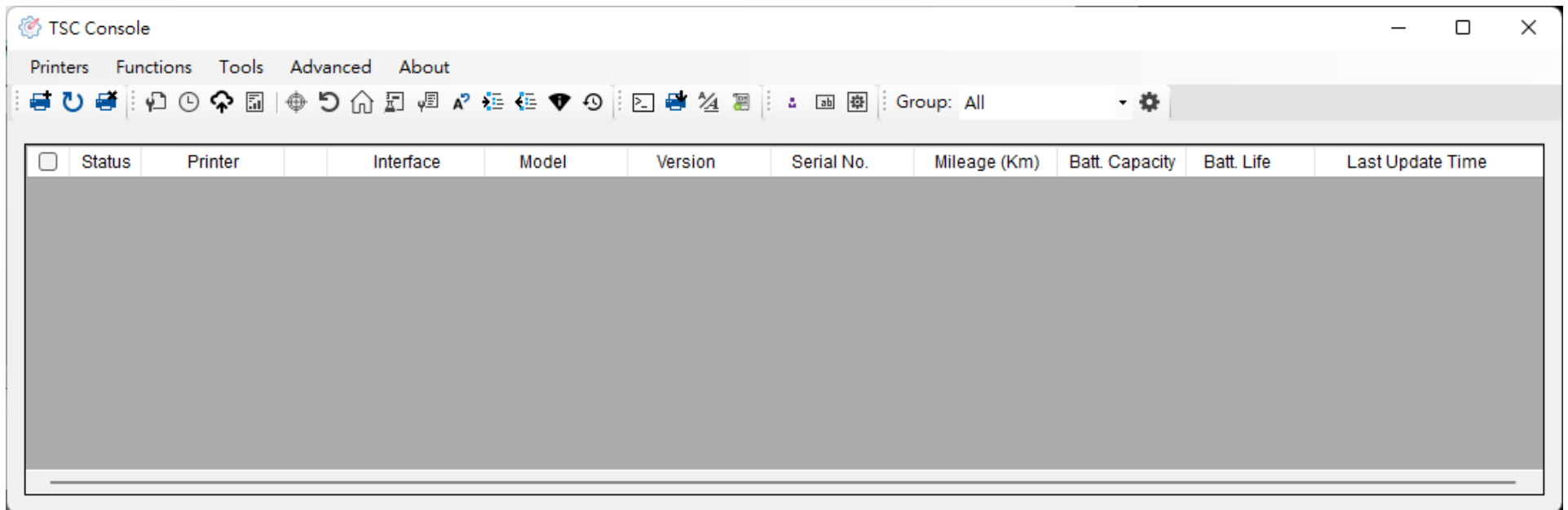
# 1. Introduction

TSC Console is a management tool combining the Printer Management, Diagnostic Tool, CommTool and Printer Webpage settings, which enables you to adjust printer's settings/status; change printers' settings; download graphics, deploy fonts, graphics, label templates or upgrade the firmware to the group of printers, and send additional commands to printers at the same time.

This manual provides the essential information and clear instructions for operating TSC Console. TSC Console can be found on TSC website at <https://www.tscprinters.com>


## 2. Getting Started

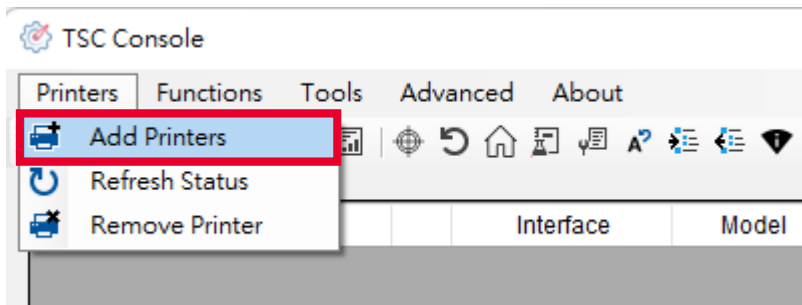
1. Unzip the TSC Console file.
2. Double click TSC Console icon to start the software.



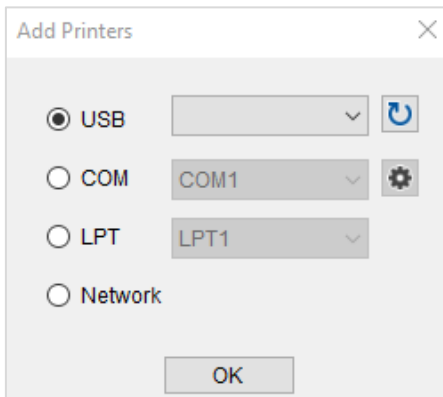
# 3. Interface Setup

## 3.1 USB

1. Click the **Printers** and select **Add Printers**. (  )



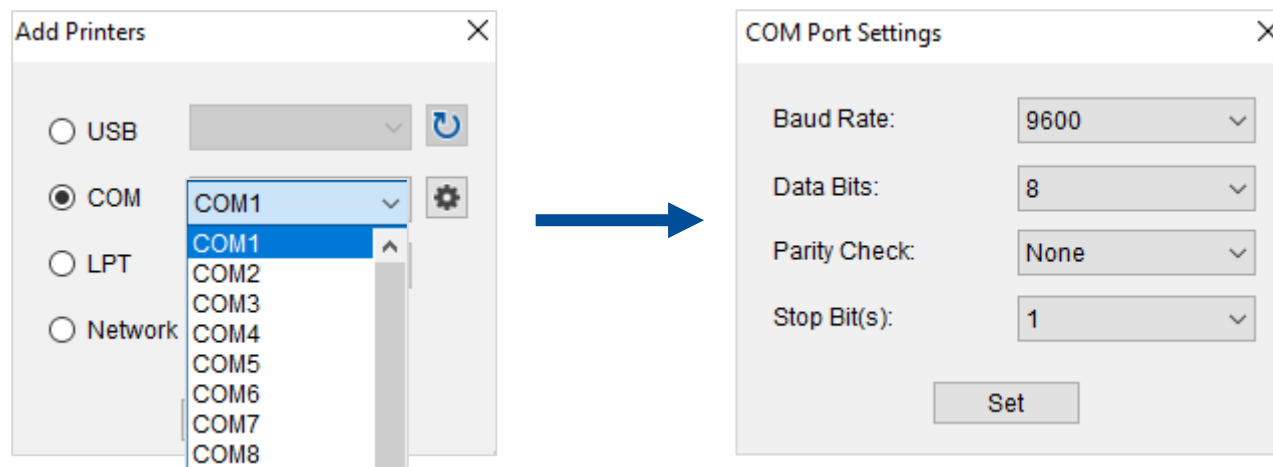
2. Select **USB** and click **OK** to find the device.



## 3.2 COM and LPT

### 3.2.1 RS-232

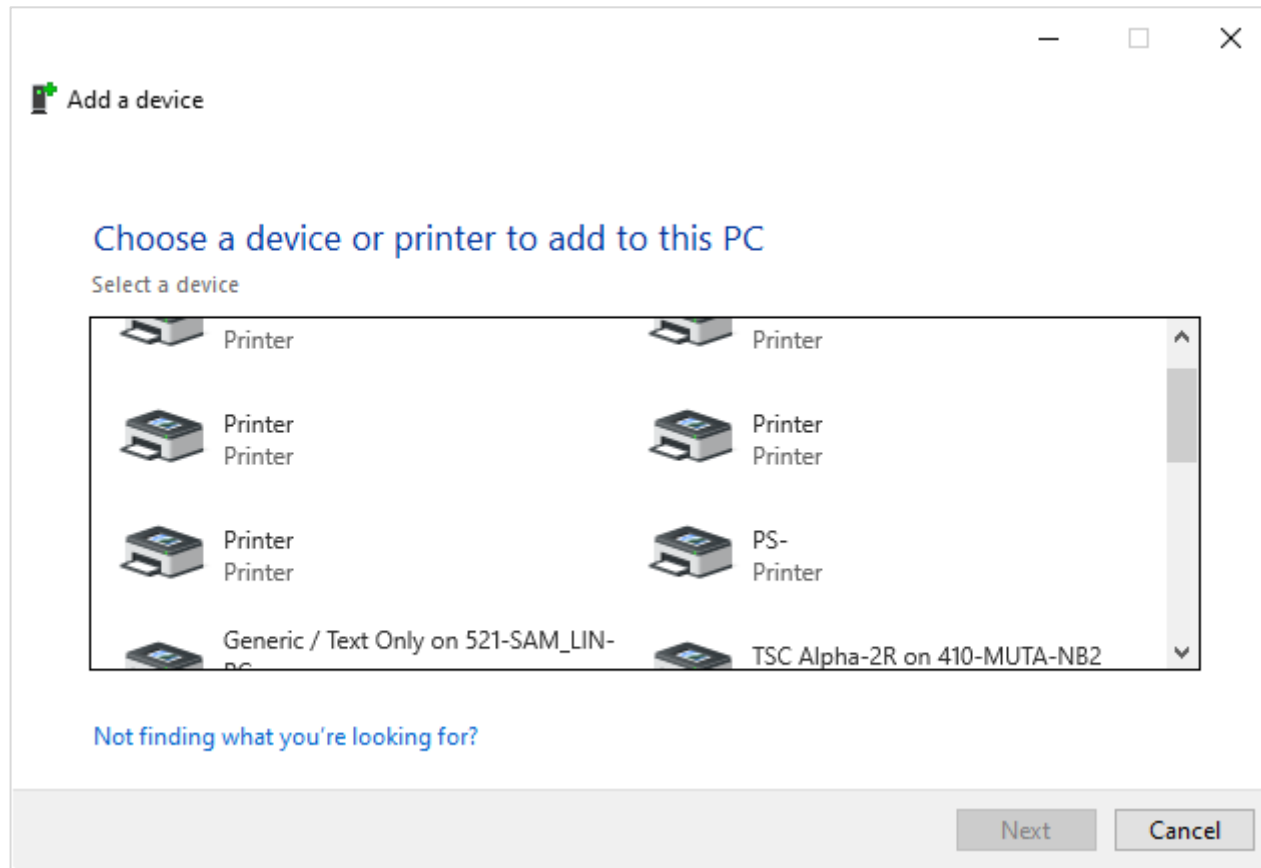
1. Use **COM Port** through the computer to connect to the printer.
2. Select the corresponding **COM Port** and finish the setup.



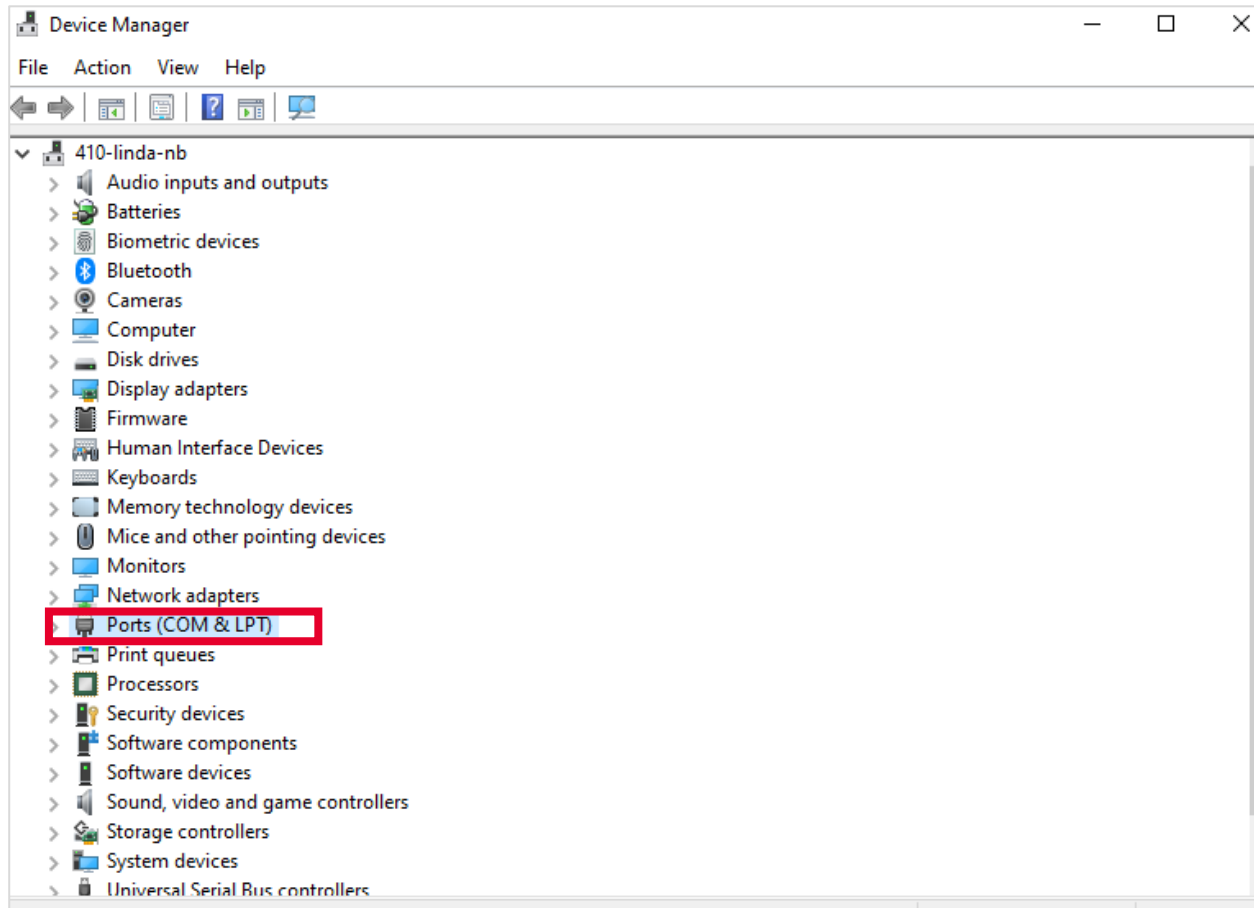


### 3.2.2 Bluetooth

1. [Control Panel] → [Hardware and Sound] → [Devices and Printers] → [Add Device] (Select the Bluetooth name)



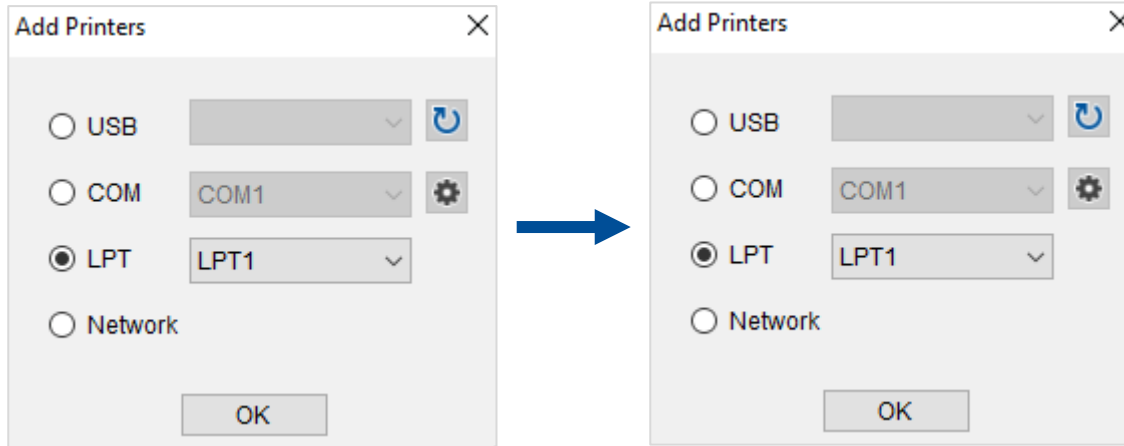
2. [Control Panel] → [Hardware and Sound] → [Devices and Printers] → [Device Manager] (Check COM Port)



3. Select the corresponding **Com Port** on **TSC Console**.

### 3.2.3 LPT

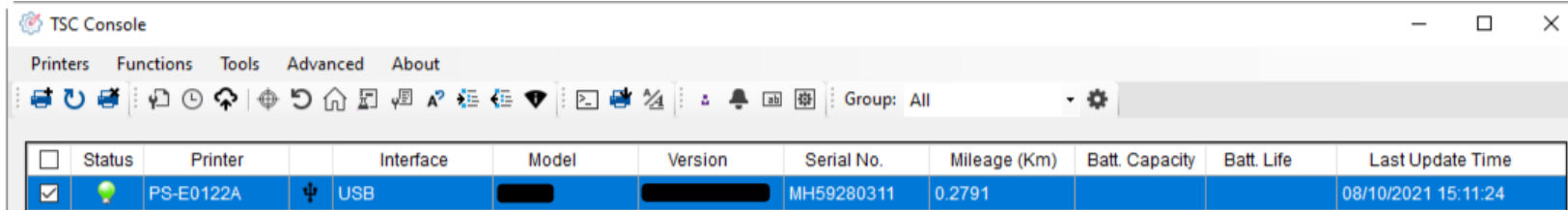
1. Select the **LPT Port** and click **OK**.



## 3.3 Network

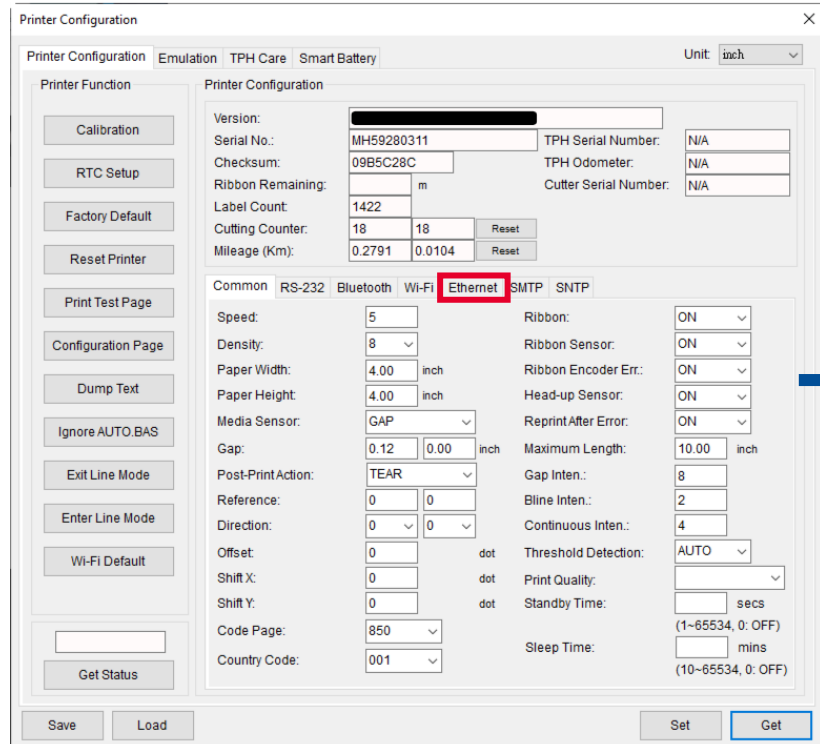
### 3.3.1 Set Ethernet and Add to TSC Console Interface

1. Use **USB** or **COM** to establish the interface on **TSC Console**.



Status	Printer	Interface	Model	Version	Serial No.	Mileage (Km)	Batt. Capacity	Batt. Life	Last Update Time
<input checked="" type="checkbox"/>	PS-E0122A	USB			MH59280311	0.2791			08/10/2021 15:11:24

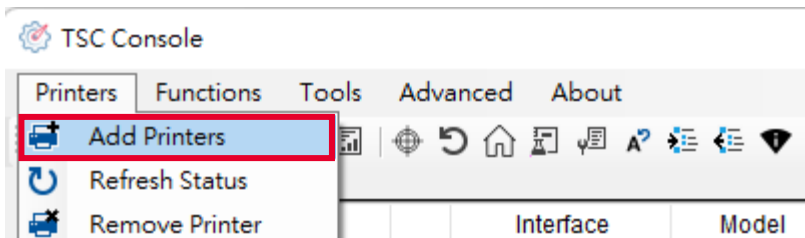
2. Double click to enter the **Printer Configuration Page** > Click **Ethernet** tab > Set the **Ethernet** > When the setting is complete, click the **Set** button on the right. (For DHCP, press the **Get** button to check the **IP Address** after setup, or check on the printer LCD control panel.)



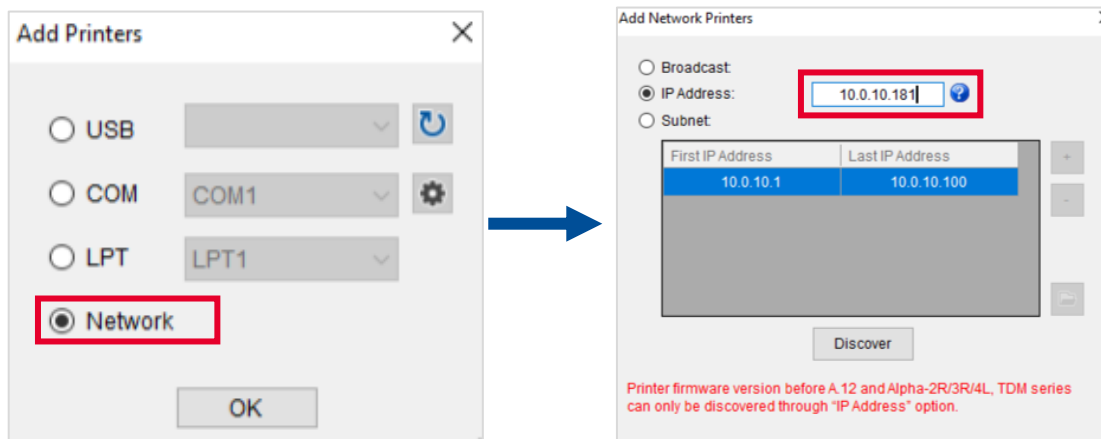
The Printer Configuration dialog box shows the Ethernet tab selected. The Ethernet settings are highlighted with a red box in the adjacent screenshot.

Common	RS-232	Bluetooth	Wi-Fi	Ethernet	SMTP	SNTP
<input checked="" type="radio"/> DHCP <input type="radio"/> Static IP						
IP Address:		10.0.10.181		Set		
Subnet Mask:		255.255.255.0		Set		
Gateway:		10.0.10.251		Set		
MAC Address:		00-1B-82-E0-12-2A		Set		
Primary DNS IP:				Set		
Secondary DNS IP:				Set		
Printer Name:		PS-E0122A		Set		
Raw Port:		9100		Set		

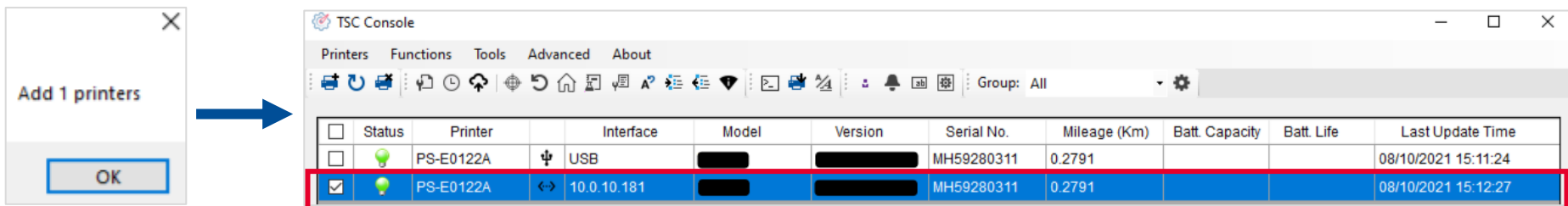
3. Return to **TSC Console** main page > Click **Add Printer** on the top left of the window.



4. Choose **Network** > Key in the **IP Address** > Click **Discover** to establish the Ethernet interface.

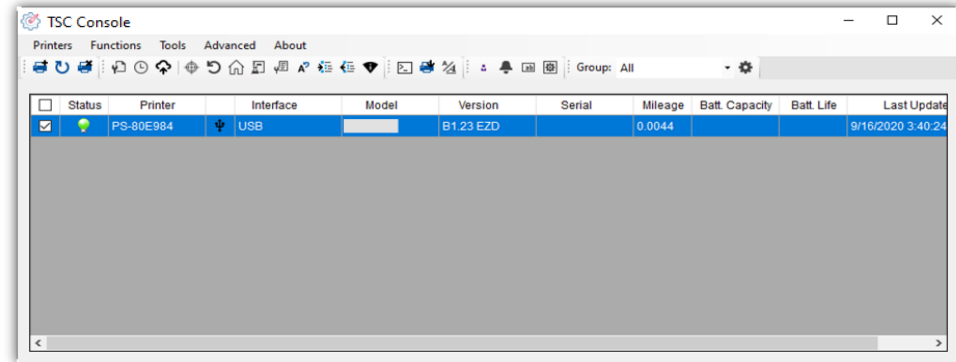


5. If the connection is successful, the Add Printer window will pop up > Click **OK** to close the window > The **TSC Console** will appear for printer that use the Ethernet interface.

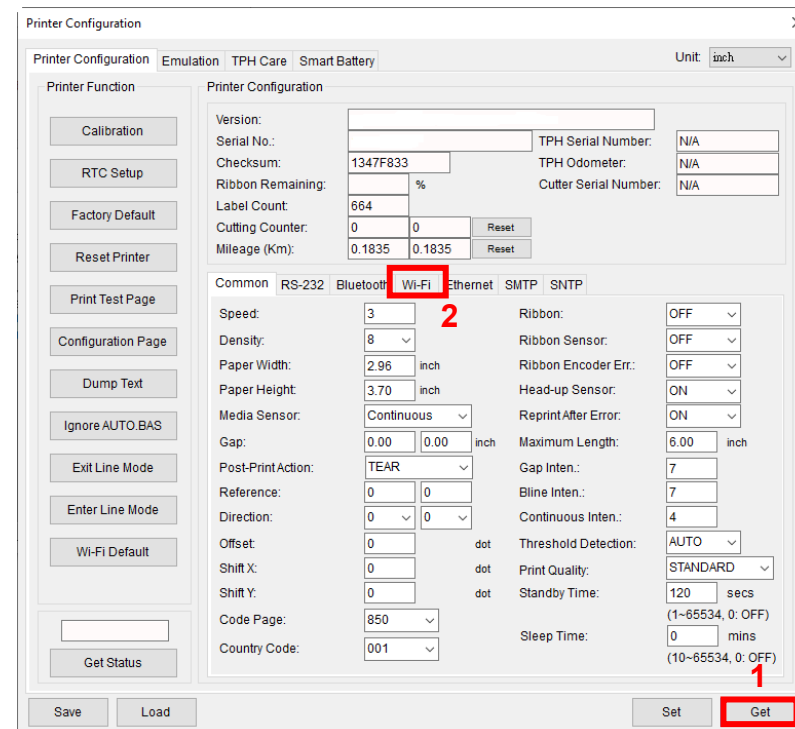


### 3.3.2 Set Wi-Fi and Add to TSC Console Interface

1. Use **USB** or **COM Port** to set up the interface.
2. Double click to enter the printer configuration page.



3. Click **Get** to receive printer's information.
4. Click **Wi-Fi** to the wi-fi setting page.



### For WPA-Personal

- I. Fill-in the **SSID**.
- II. Select the Encryption option to **WPA-Personal**.
- III. Fill-in the Key.
- IV. Select **DHCP** to **ON**. (For **OFF** option, please fill-in the IP Address, Subnet Mask and Gateway)
- V. After setting, click the **Set** button.

#### Note:

Before setting, the entered field will be shown in yellow for reminding. On DHCP, user can change the printer name by another model name in "Printer Name" field.

User also can change the raw port in "Raw Port" field.

Common RS-232 Bluetooth Wi-Fi Ethernet SMTP SNTP

Built-in Wi-Fi Module

SSID: SSID\_1

WLAN Encryption: WPA-Personal

Key: ●●●●

DHCP: ON

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Gateway:

Primary DNS IP:

Secondary DNS IP:

Raw Port: 9100

Printer Name: PS-FF153C

MAC Address: 00:1B:82:FF:15:3C

EAP Type:

Username:

Password:

File Name Browse

CA Certificate:

Client Certificate:

Private Key:

EAP-FAST PAC:

Wi-Fi Version: 3.7.1.0R6

RSSI: 0

Perform Wi-Fi default when using USB interface

Set Get

### For WPA-Enterprise

- I. Fill-in the **SSID**.
- II. Select the Encryption option to **WPA-Enterprise**.
- III. Select DHCP to **ON** (For **OFF** option, please fill-in the IP Address, Subnet Mask and Gateway)
- IV. Select the **EAP Type** option. (For **EAP-TLS** option, please upload the CA and Key for mutual authentication, integrity-protected cipher suite negotiation, and key exchange between two endpoints.)
- V. After setting, click the **Set** button.

#### Note:

Before setting, the entered field will be shown in yellow for reminding. On DHCP, user can change the printer name by another model name in "Printer Name" field.

User also can change the raw port in "Raw Port" field.

Common RS-232 Bluetooth Wi-Fi Ethernet SMTP SNTP

Built-in Wi-Fi Module

SSID: SSID\_2

WLAN Encryption: WPA-Enterprise

Key: ●●●●

DHCP: ON

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Gateway:

Primary DNS IP:

Secondary DNS IP:

Raw Port: 9100

Printer Name: PS-FF153C

MAC Address: 00:1B:82:FF:15:3C

EAP Type:

Username:

Password:

File Name Browse

CA Certificate:

Client Certificate:

Private Key:

EAP-FAST PAC:

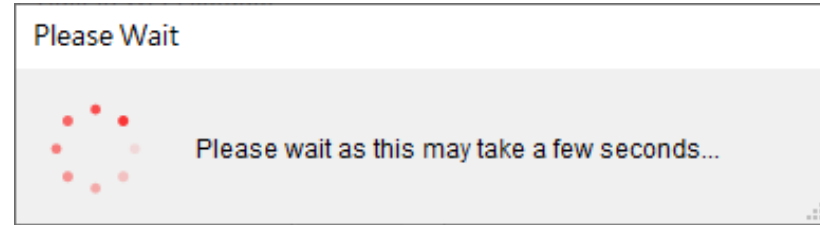
Wi-Fi Version: 3.7.1.0R6

RSSI: 0

Perform Wi-Fi default when using USB interface

Set Get

5. After clicking **Set** button, it'll pop-up the window tip as below shown.

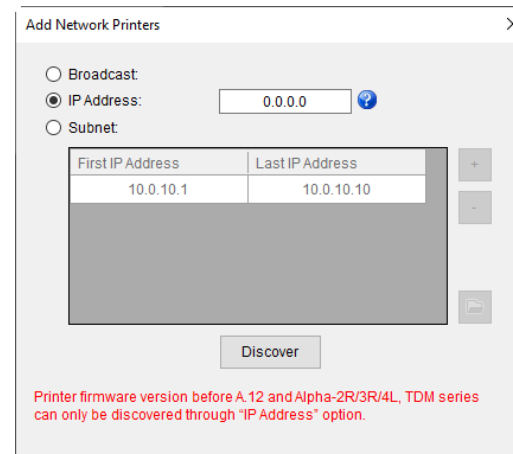


6. IP address will be shown in the "IP address" field and the Wi-Fi logo and IP address will be displayed on the LCD control panel.

**Note:**

IP address should be shown within about 5 to 15 seconds after printer turn on. If not, please refer to steps below to initialize the printer Wi-Fi module settings then to setup it again.

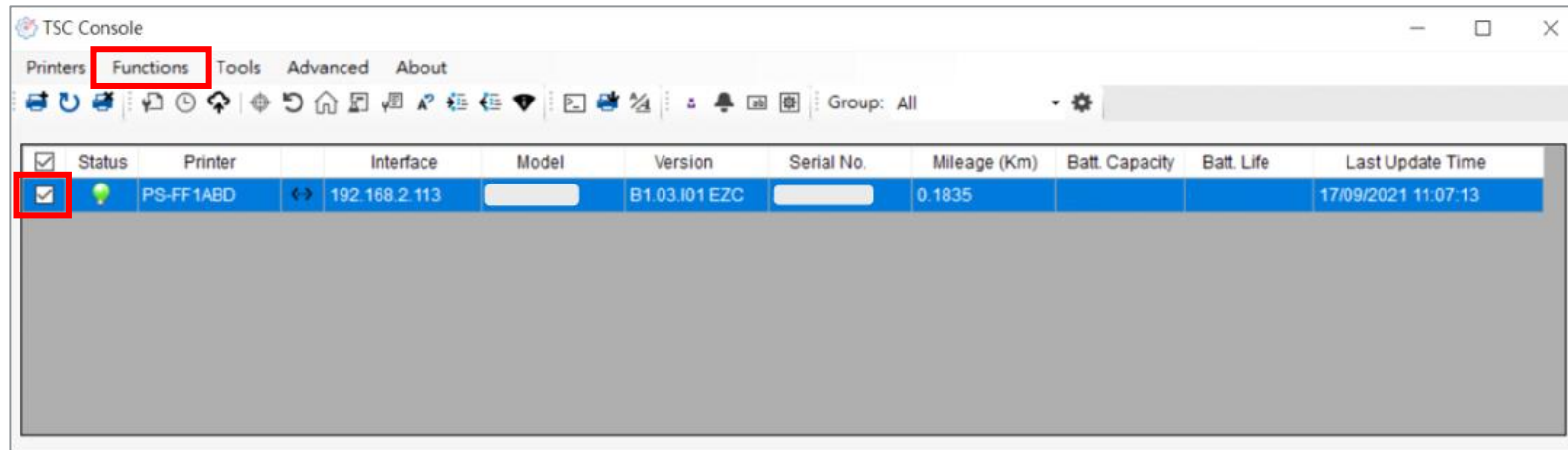
7. Remove the cable between the computer and the printer.
8. Go to main page, click **Add Printer** to add the printer via **Network**.
9. Select the printer and enter the setting page by double clicking the printer.
10. Click the **Print Test Page** button to print the test page via Wi-Fi interface.



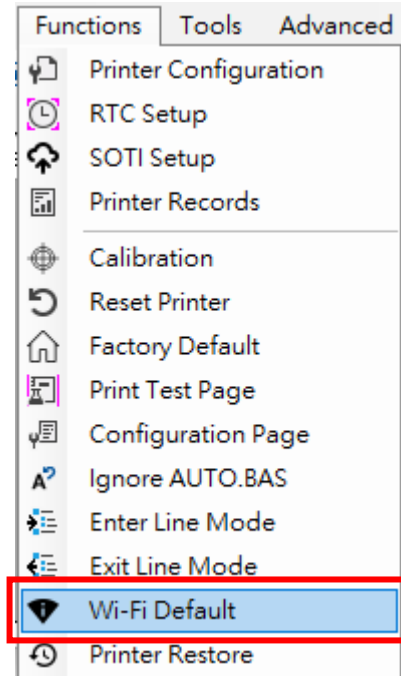


### 3.3.3 Initialize the Printer Wi-Fi Setting

1. Return to the main page of TSC Console. Select the printer and click **Functions** to expand the page.

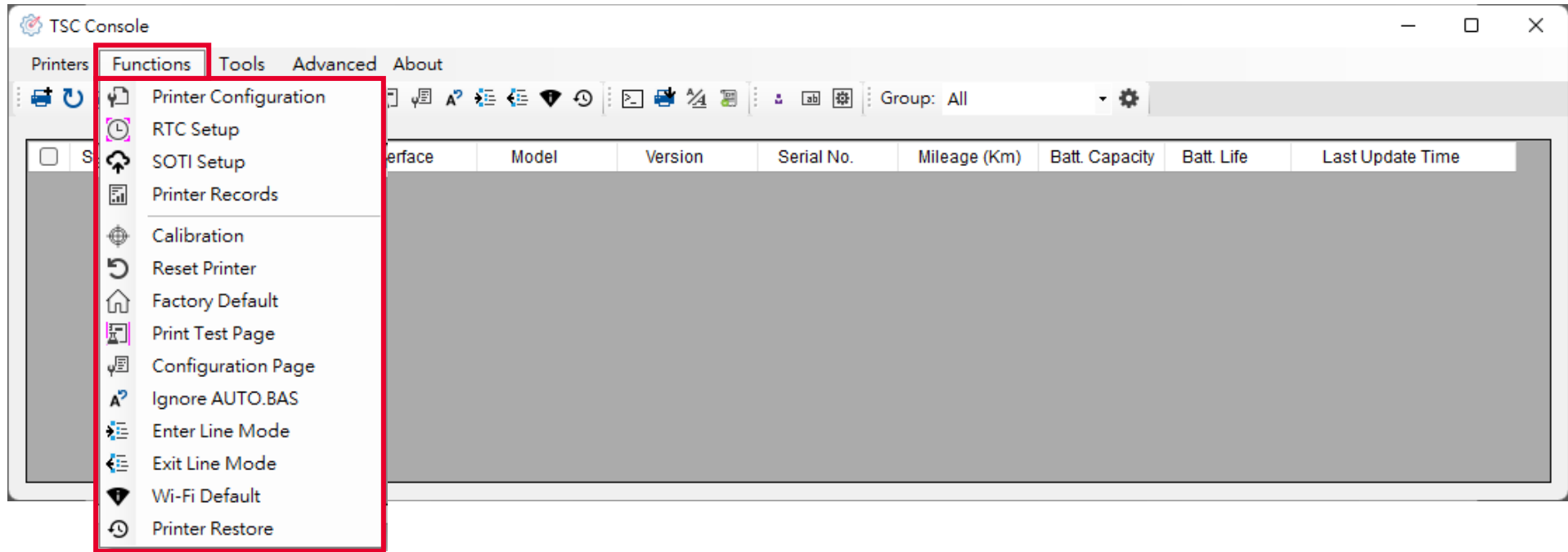


2. Click **Wi-Fi Default** to initialize the printer Wi-Fi module setting to factory default setting.



## 4. Function

**Functions** shows the settings and functions for the printer, users can access to the page by following below picture's instruction or **double clicking** the established printer in **TSC Console**.



## 4.1 Printer Configuration

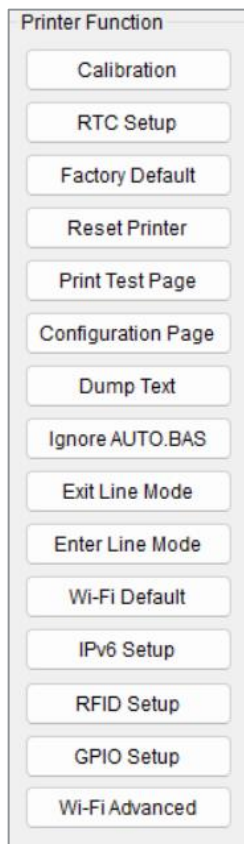
**Printer Configuration** contains most functions and setting to the printer, click **Function** on **TSC Console** main page, then click **Printer Configuration** to enter the page.

### 4.1.1 Printer Configuration Overview

The screenshot displays the 'Printer Configuration' web interface. It features a top navigation bar with tabs for 'Printer Configuration', 'Feature's Tab', 'Smart Battery', and 'Change the Unit'. Below this is a 'Printer Function' sidebar with buttons for 'Calibration', 'RTC Setup', 'Factory Default', 'Reset Printer', 'Print Test Page', 'Configuration Page', 'Dump Text', 'Ignore AUTO.BAS', 'Exit Line Mode', 'Enter Line Mode', 'Wi-Fi Default', 'IPv6 Setup', 'RFID Setup', 'GPIO Setup', and 'Wi-Fi Advanced'. A 'Get Status' button is also present. The main content area is divided into three sections: 'Printer Information' (Version, Serial Number, Checksum, Ribbon Remaining, Label Count, Cutting Counter, Mileage (Km), TPH S/N, TPH Odometer, Ribbon Saver S/N, Ribbon Saver Counter), 'Printer Setup Tab' (Common, RS-232, Bluetooth, 802.1X, SMTP, SNTP), and 'Printer Setup' (Speed, Density, Paper Width, Paper Height, Media Sensor, Gap, Post-Print Action, Reference, Direction, Offset, Shift X, Shift Y, Code Page, Country Code, Ribbon, Ribbon Sensor, Ribbon Encoder Err., Ribbon Saver, Head-up Sensor, Reprint After Error, Maximum Length, Bline Inten., Continuous Inten., Threshold Detection, Print Quality, Standby Time, Sleep Time). The interface includes 'Save', 'Load', 'Set', and 'Get' buttons at the bottom.

## 4.1.2 Printer Functions

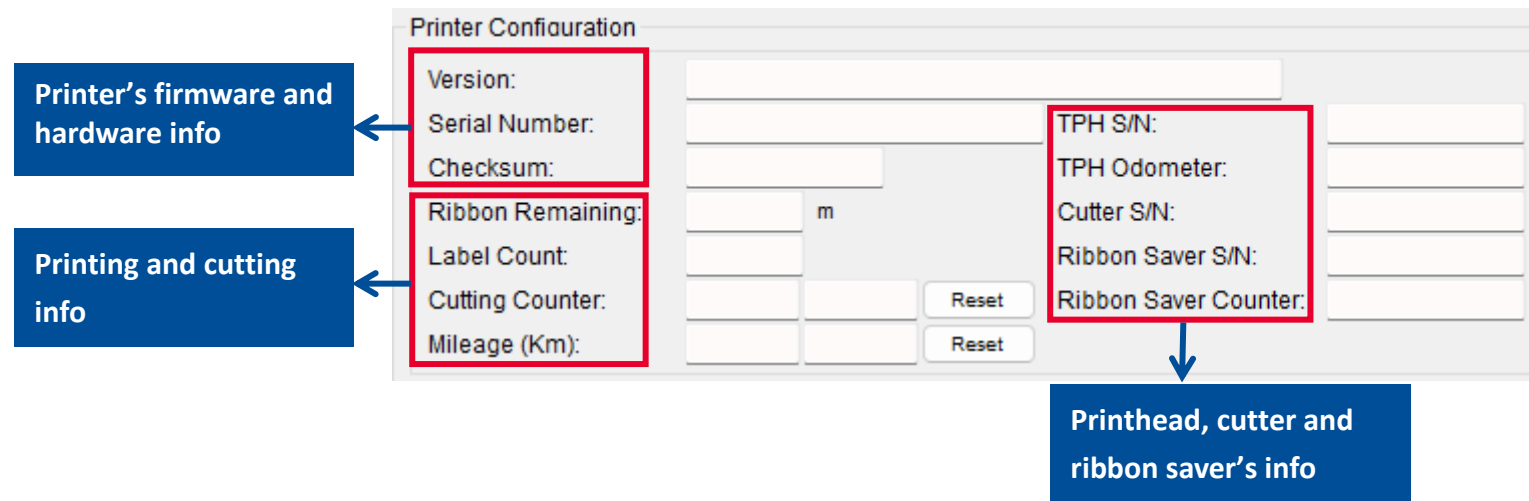
**Printer Function** could be found in **Printer Configuration**. “**Printer Function**” will be shown on the left side of the window.



Functions	Description
<b>Calibrate</b>	Detect media types and the size of the label
<b>RTC Setup</b>	Synchronize printer with Real Time Clock on PC
<b>Factory Default</b>	Initialize the printer to default settings
<b>Reset Printer</b>	Reboot printer
<b>Print Test Page</b>	Print test page according to the specified label size and sensor type.
<b>Configuration Page</b>	Print printer configurations
<b>Dump Text</b>	Activate the printer to dump mode
<b>Ignore AUTO.BAS</b>	Ignore AUTO.BAS file when printer boot up
<b>Exit Line Mode</b>	Exit the line mode to page mode
<b>Enter Line Mode</b>	Leave page mode and enter line mode
<b>Wi-Fi Default</b>	Restore the Wi-Fi settings to defaults.
<b>IPv6 Setup</b>	Enter the IPv6 settings window to configure the settings
<b>RFID Setup</b>	Enter the RFID settings window to configure the settings
<b>GPIO Setup</b>	Enter the GPIO settings window to configure the settings
<b>Wi-Fi Advanced</b>	Enter the Wi-Fi module's Advanced Settings window to configure the settings

### 4.1.3 Printer Information

Printer Information area allows users to check up printer's information.



**Note:**

The information sent back by the printer here will vary depending on the model, the data will be sent back only if this function is available.

## 4.1.4 Printer Setup - Common

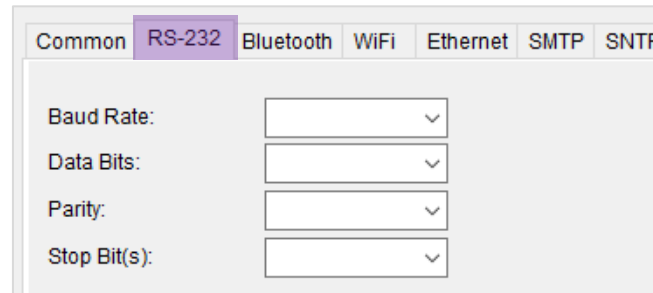
Printer Information area allows users to check/ set the printer's settings.

The image shows a screenshot of a printer's configuration interface, specifically the 'Common' tab. The interface is divided into two main columns of settings. The left column includes Speed, Density, Paper Width, Paper Height, Media Sensor, Gap, Post-Print Action, Reference, Direction, Offset, Shift X, Shift Y, Code Page, and Country Code. The right column includes Ribbon, Ribbon Sensor, Ribbon Encoder Err., Ribbon Saver, Head-up Sensor, Reprint After Error, Maximum Length, Gap Inten., Bline Inten., Continuous Inten., Threshold Detection, Print Quality, Standby Time, and Sleep Time. Blue callout boxes with arrows point to specific settings, explaining their function: 'Set printing speed and printing density' points to Speed and Density; 'Set media's size' points to Paper Width and Paper Height; 'Set media sensor and gap value' points to Media Sensor and Gap; 'Set printer's action and direction' points to Post-Print Action and Direction; 'Set the region code' points to Code Page and Country Code; 'Set ribbon sensor' points to Ribbon Sensor; 'Set printer behaviors' points to Reprint After Error; 'Set intensity of media sensor' points to Gap Inten., Bline Inten., and Continuous Inten.; and 'Exclusive settings for mobile printer' points to Print Quality, Standby Time, and Sleep Time. The interface also features tabs for RS-232, Bluetooth, Wi-Fi, Ethernet, 802.1X, SMTP, and SNTP, and buttons for 'Set' and 'Get' at the bottom.

Setting	Unit
Speed:	
Density:	
Paper Width:	mm
Paper Height:	mm
Media Sensor:	
Gap:	mm
Post-Print Action:	
Reference:	
Direction:	
Offset:	dot
Shift X:	dot
Shift Y:	dot
Code Page:	
Country Code:	
Ribbon:	
Ribbon Sensor:	
Ribbon Encoder Err.:	
Ribbon Saver:	
Head-up Sensor:	
Reprint After Error:	
Maximum Length:	mm
Gap Inten.:	
Bline Inten.:	
Continuous Inten.:	
Threshold Detection:	
Print Quality:	
Standby Time:	secs
Sleep Time:	mins

## 4.1.5 Printer Setup - RS-232

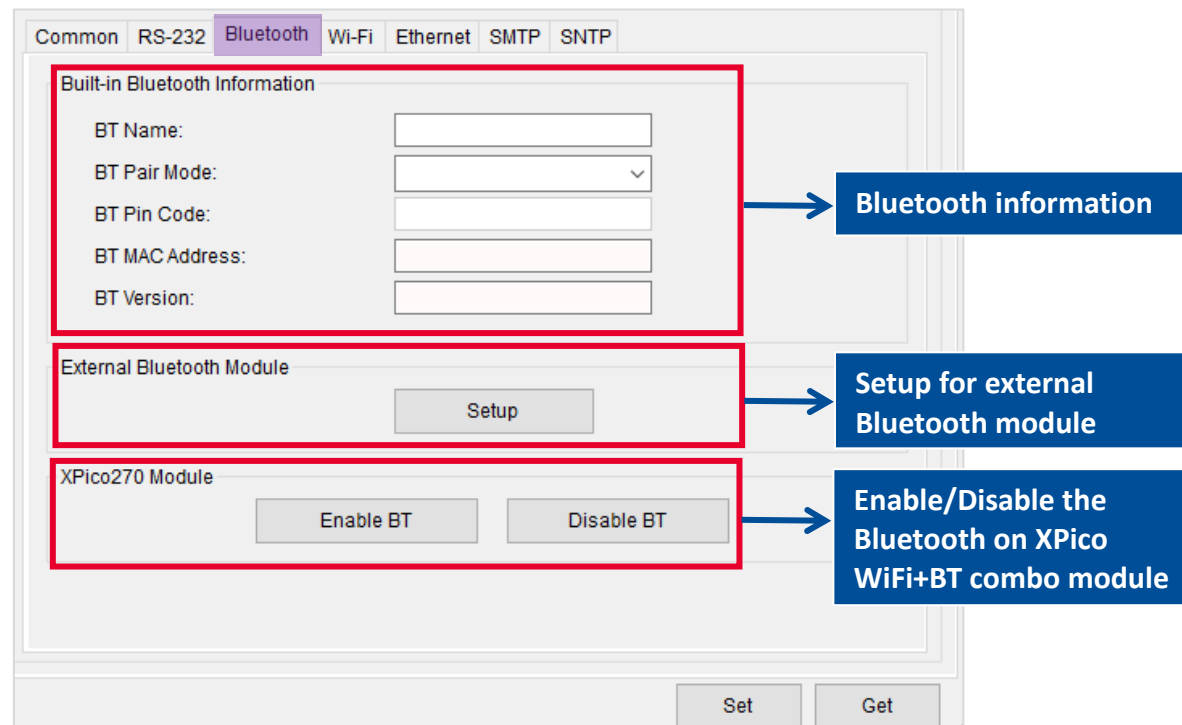
RS-232 area provides the settings to set up the RS-232 interface.



The screenshot shows a configuration window with tabs for Common, RS-232, Bluetooth, WiFi, Ethernet, SMTP, and SNTP. The RS-232 tab is selected. It contains four settings, each with a dropdown menu: Baud Rate, Data Bits, Parity, and Stop Bit(s).

## 4.1.6 Printer Setup - Bluetooth

Bluetooth area provides users to check and set printers' Bluetooth settings.



The screenshot shows a configuration window with tabs for Common, RS-232, Bluetooth, Wi-Fi, Ethernet, SMTP, and SNTP. The Bluetooth tab is selected. It contains three main sections:

- Built-in Bluetooth Information:** A red box highlights this section, which includes fields for BT Name, BT Pair Mode (dropdown), BT Pin Code, BT MAC Address, and BT Version. An arrow points from this box to a blue callout box labeled "Bluetooth information".
- External Bluetooth Module:** A red box highlights this section, which contains a "Setup" button. An arrow points from this box to a blue callout box labeled "Setup for external Bluetooth module".
- XPico270 Module:** A red box highlights this section, which contains "Enable BT" and "Disable BT" buttons. An arrow points from this box to a blue callout box labeled "Enable/Disable the Bluetooth on XPico WiFi+BT combo module".

At the bottom of the window are "Set" and "Get" buttons.

## 4.1.7 Printer Setup - Wi-Fi

Wi-Fi area is used to check & set printers' Wi-Fi settings.

For setting up the Wi-Fi, please refer to [Set Wi-Fi and Add to TSC Console Interface](#).

Common RS-232 Bluetooth **Wi-Fi** Ethernet 802.1X SMTP SNTP

Wi-Fi Module

SSID:  EAP Type:

WLAN Encryption:  Username:

Key:  Password:

DHCP:  [Filename](#) [Browse](#)

IP Address:  CA Certificate:  ...

Subnet Mask:  Client Certificate:  ...

Gateway:  Private Key:  ...

Primary DNS IP:  EAP-FAST PAC:  ...

Secondary DNS IP:  Fast BSS Transition (802.11r):

Raw Port:

Printer Name:  Wi-Fi Version:

MAC Address:  RSSI:

Perform Wi-Fi default when using USB interface



## 4.1.8 Printer Setup - Ethernet

**Ethernet** area is used to check & set printers' Ethernet settings.

For setting up the Ethernet, please refer to [Set Ethernet and Add to TSC Console Interface](#).

The screenshot shows a configuration window with several tabs at the top: Common, RS-232, Bluetooth, Wi-Fi, Ethernet (selected), 802.1X, SMTP, and SNTP. The Ethernet tab is active, displaying the following settings:

- Radio buttons for  DHCP and  Static IP.
- IP Address: 0.0.0.0
- Subnet Mask: 0.0.0.0
- Gateway: 0.0.0.0
- MAC Address: (empty field)
- Primary DNS IP: 0.0.0.0
- Secondary DNS IP: 0.0.0.0
- Printer Name: (empty field)
- Raw Port: (empty field)

Each of the IP and MAC address fields has a 'Set' button to its right. At the bottom of the window, there are two large buttons: 'Set' and 'Get'.

## 4.1.9 Printer Setup – 802.1X (for Ethernet)

802.1X area is used to set printers' Ethernet 802.1X settings.

The screenshot shows a configuration window with tabs for Common, RS-232, Bluetooth, Wi-Fi, Ethernet, 802.1X, SMTP, and SNMP. The 802.1X tab is selected. The configuration options include:

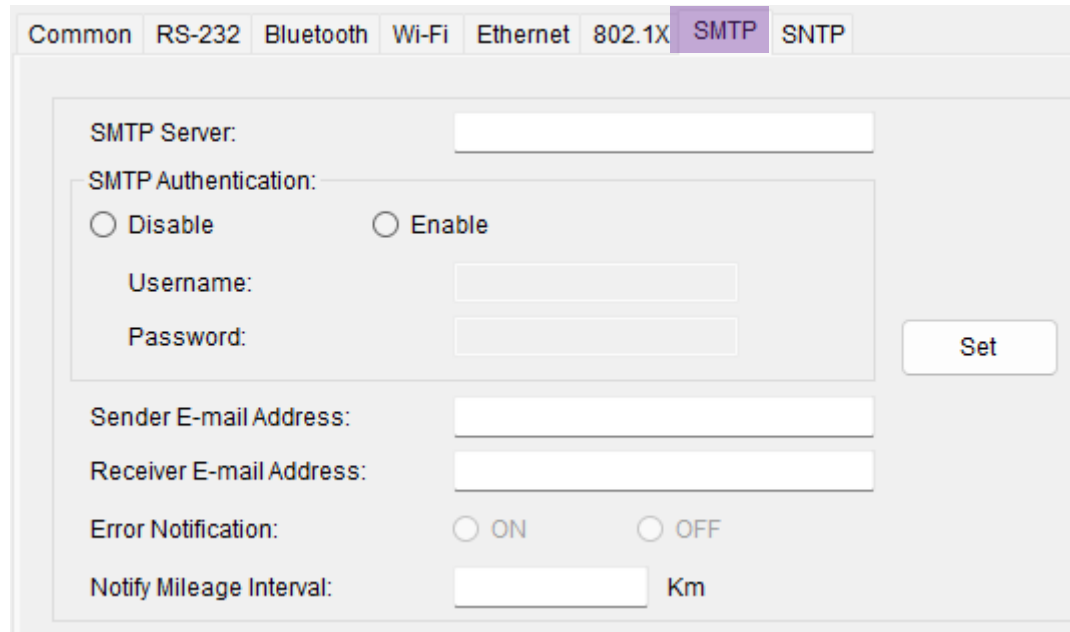
- EAP Mode: A dropdown menu.
- EAP Identity: A text input field.
- User Name: A text input field.
- User Password: A text input field.
- CA Certificate: A text input field with a "Browse" button.
- Client Certificate: A text input field with a "Browse" button.
- Client Key: A text input field with a "Browse" button.
- Client Key Password: A text input field.
- TLS Version: Radio buttons for 1.0, 1.1, and 1.2.
- Verify TLS Certificate: Checkboxes for "Server Cert" and "Client Cert", both of which are checked.
- Leave 802.1X Timeout: A text input field followed by "mins".

A "Set" button is located on the right side of the configuration area.

#### 4.1.10 Printer Setup - SMTP (Simple Mail Transfer Protocol)

When **SMTP** setup is complete, printer will automatically send receiver a mail of notification in case the printer is in error state.

**Note: Only support firmware A2.13 or above version (Ethernet / Wi-Fi).**



The image shows a web-based configuration interface for a printer, specifically the SMTP (Simple Mail Transfer Protocol) settings page. The interface has a top navigation bar with tabs for 'Common', 'RS-232', 'Bluetooth', 'Wi-Fi', 'Ethernet', '802.1X', 'SMTP', and 'SNTP'. The 'SMTP' tab is currently selected and highlighted in purple. Below the navigation bar, the configuration area is divided into several sections:

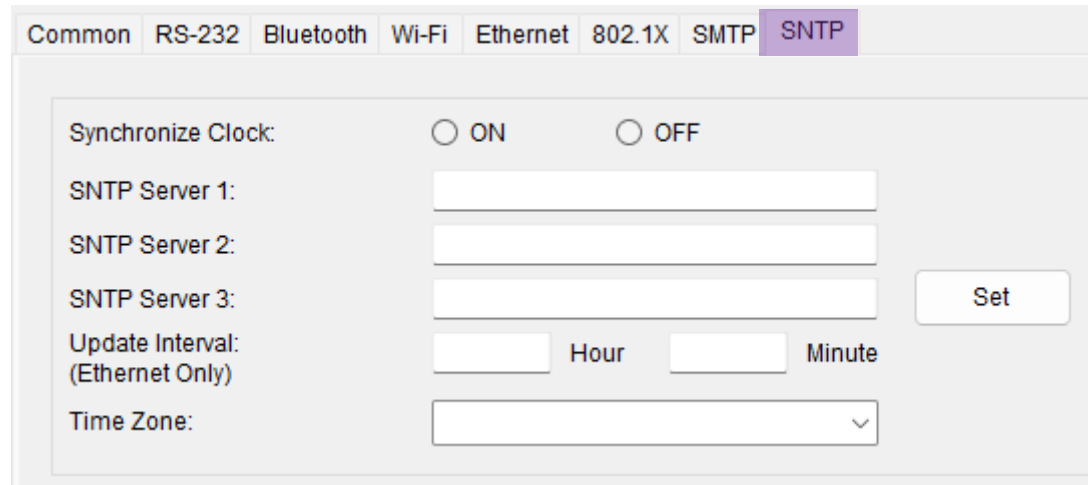
- SMTP Server:** A text input field for the server address.
- SMTP Authentication:** A section containing two radio buttons: 'Disable' (selected) and 'Enable'. Below these are two text input fields for 'Username' and 'Password'.
- Sender E-mail Address:** A text input field for the sender's email address.
- Receiver E-mail Address:** A text input field for the receiver's email address.
- Error Notification:** Two radio buttons: 'ON' and 'OFF'.
- Notify Mileage Interval:** A text input field followed by the unit 'Km'.

A 'Set' button is located to the right of the 'SMTP Authentication' section.

#### 4.1.11 Printer Setup - SNTP (Simple Network Time Protocol)

SNTP allows user sync printer system clock with ethernet timing.

**Note: Only support firmware A2.13 or above version (Ethernet / Wi-Fi).**



The screenshot shows the printer's configuration interface with the 'SNTP' tab selected. The interface includes the following elements:

- Navigation tabs: Common, RS-232, Bluetooth, Wi-Fi, Ethernet, 802.1X, SMTP, and SNTP (highlighted).
- 'Synchronize Clock' section: Two radio buttons labeled 'ON' and 'OFF'.
- 'SNTP Server 1:', 'SNTP Server 2:', and 'SNTP Server 3:': Three empty text input fields for server addresses.
- 'Update Interval: (Ethernet Only)': Two text input fields for 'Hour' and 'Minute'.
- 'Time Zone:': A dropdown menu.
- 'Set': A button to apply the configuration.

#### 4.1.12 Features Tab - Emulation

Emulation provides ZPL and DPL language setting on TSC printers.

The image shows a software interface for printer configuration. At the top, there are four tabs: "Printer Configuration", "Emulation", "TPH Care", and "Smart Battery". The "Emulation" tab is selected and highlighted in orange. Below the tabs, there are two sub-sections for language settings: "Z" (ZPL) and "D" (DPL). The "Z" section is on the left, and the "D" section is on the right. A red box highlights the "D" tab in the "Z" section, with a blue arrow pointing to the "D" tab in the "D" section. The "Z" section contains the following settings:

- Darkness:  0 ~ 30
- Print Speed:
- Tear Off Pos:  -120 ~ 120
- Print Mode:  v
- Print Width:  dot
- Control Prefix:
- Format Prefix:
- Delimiter Char:
- Media Power Up:  v
- Head Close:  v
- Label Top:  -120 ~ 120
- Left Position:  -9999 ~ 9999

The "D" section contains the following settings:

- Heat:  0 ~ 30
- Print Speed:
- Cut By Amount:  1 ~ 9999
- Format Attribute:  v
- Barcode Magnification:  0 ~ 99
- Dot Width Multiplier:  dot
- Dot Height Multiplier:  dot
- Label Width:  mm
- Present Sensor:  v
- Cutter Equipped:  v
- Control Codes:  v
- Column Offset:  mm
- Row Offset:  mm

A "Set" button is located at the bottom right of the "D" section.

### 4.1.13 Features Tab – TPH Care

TPH Care provides users to check the condition of the print head and be able to set the dot failure threshold for indicating errors when the threshold is triggered.

This option is used to enable (ON)/disable (OFF) the TPH care function.

This option is used to check the numbers of unhealthy TPH dot element.

This option is used to detect, the unhealthy TPH dot.

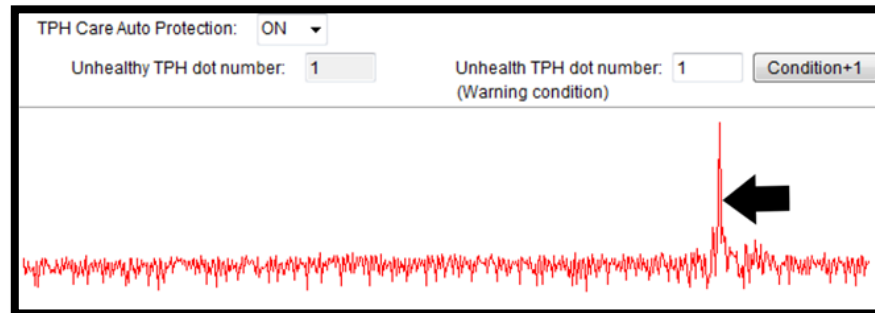
This option is used to save the image to .png file.

This option is used to set the threshold for unhealthy TPH dot number.

This image is used to check the relative position of the unhealthy TPH dot.

This option is used to print a TPH test image to check the TPH printing result.

1. Enable the TPH Care function. (Note: The default is disabled/OFF.) Then click "Get TPH care profile" button and a diagram will show in the area above.
2. If the profile is flat, it means that the print head is good. Check "Unhealthy TPH dot number". If the result is zero (0), that means the print head is good.
3. Bad dots are presented as a spike in the profile. The arrow in below profile indicates the presence of potentially damaged dots and printer will stop printing.



#### 4.1.14 Features Tab – Smart Battery

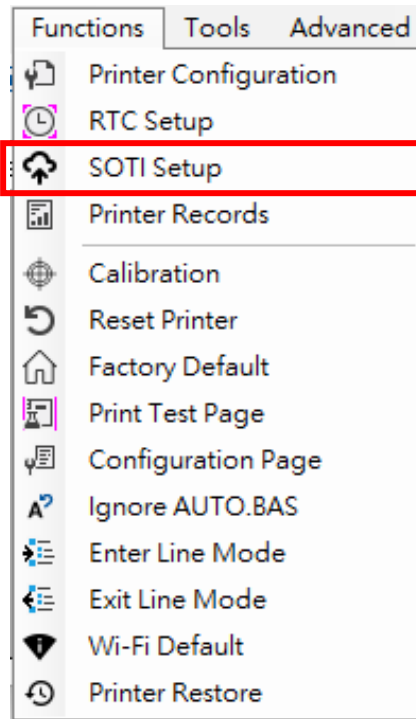
**Smart Battery** shows the battery information of the printer (**Mobile Printers only.**)

Printer Configuration	Emulation	TPH Care	Smart Battery
Battery Serial Number:	<input type="text"/>		
Current Voltage:	<input type="text"/>		V
Capacity:	<input type="text"/>		%
Temperature:	<input type="text"/>		°C
Discharged Times:	<input type="text"/>		times
Manufacture Date:	<input type="text"/>		
Healthy Status:	<input type="text"/>		

## 4.2 SOTI Setup

**SOTI Setup** could setup the required parameters for printers to work with **SOTI Connect**.

**Note:** Once the printer is connected to the SOTI, the bulb of the status would turn into green color.



A screenshot of the 'SOTI Setup' configuration window. The window has a title bar with 'SOTI Setup' and a close button. The main content is divided into several sections:

- File**: A section header.
- MQTT Server Configuration**: A section containing four text input fields: 'MQTT Server:', 'MQTT Server Port:' (with the value '1883'), 'MQTT Username:', and 'MQTT Password:'. Below these is a radio button selection for 'MQTT Secured:' with 'TLS' selected and 'None' unselected.
- Certificate Files**: A section containing four rows of file selection controls. Each row has a text input field, a file explorer icon, a 'Browse' button, and a 'Clear' button. The rows are: 'MQTT CA:', 'MQTT Client Cert:', 'MQTT Private Key:', and 'File Store CA:'. The 'MQTT Private Key:' row also includes a 'Private Key Password:' text input field.
- SOTI**: A section containing two text input fields: 'SOTI Tenant ID:' and 'SOTI Agent ID:'.
- Status**: A section at the bottom left containing a lightbulb icon.
- Buttons**: Three buttons at the bottom right: 'Set', 'Get', and 'Initialize SOTI Settings'.



## 4.3 Printer Records

**Printer Records** could check out the printer information, including raw data, life cycle, media usage, and TPH resistance profile. Follow below instruction to open the **Printer Records**:

Go to TSC Console main page > select the printers > click **Printer Records** in the Tool menu or right click on printer to find the option to enter in the **Printer Records** page.

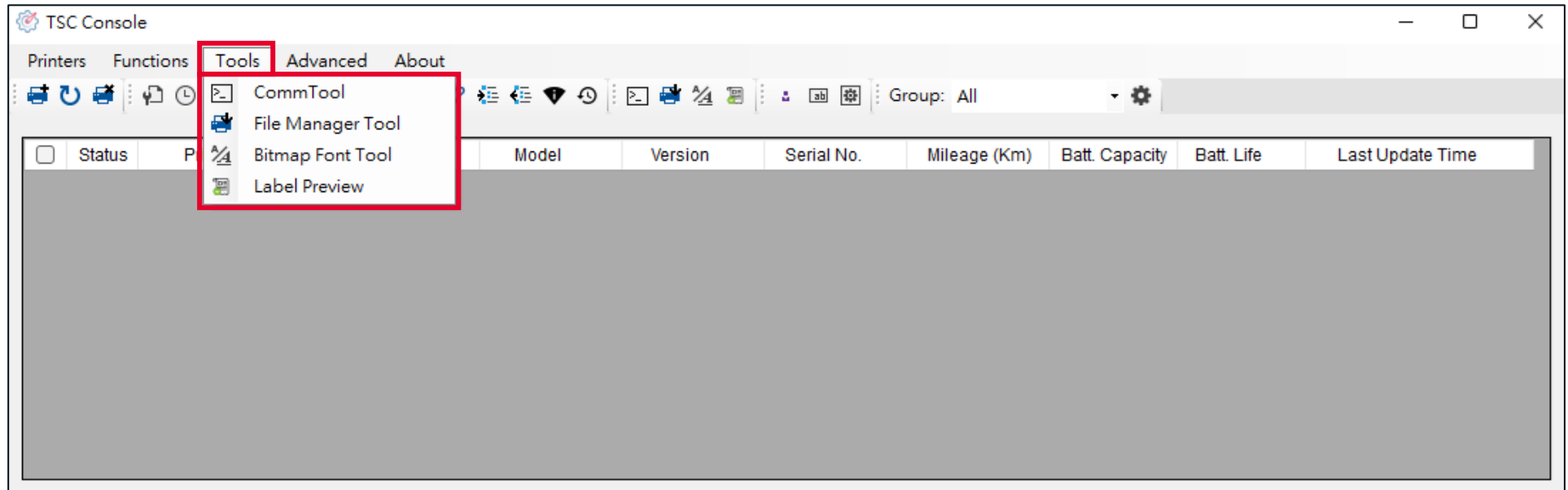
The screenshot shows the 'Printer Records' window. At the top right, a blue box says 'Clear or export the data' with an arrow pointing to the 'Clear Records' and 'Export' buttons. On the left, a red box highlights the 'Name' dropdown menu containing 'PS-FF02BF', with an arrow pointing to a blue box labeled 'Filter by name'. Below the name, the 'Interface' is set to 'USB'. In the middle, a red box highlights the 'Raw Data' tab, with an arrow pointing to a blue box labeled 'Available information that can be checked'. The date range is set from '2022/ 1/ 1' to '2022/ 1/19'. Below the date range, there are controls for 'Per Page' (set to 100), 'Unit' (set to inch), and 'Hide Offline'. The main area contains a table with the following data:

Time	Printer Name	Interface	Model Name	Status	IP Address	Firmware Ver
2022/1/19 2:04:34 PM	PS-FF02BF	USB	DA200	Ready	-	A2.12 EZD
2022/1/19 1:59:18 PM	PS-FF02BF	USB	DA200	Ready	-	A2.12 EZD
2022/1/19 1:54:02 PM	PS-FF02BF	USB	DA200	Ready	-	A2.12 EZD
2022/1/19 1:48:45 PM	PS-FF02BF				-	A2.12 EZD
2022/1/19 1:43:29 PM	PS-FF02BF				-	A2.12 EZD
2022/1/19 1:38:13 PM	PS-FF02BF	USB	DA200	Ready	-	A2.12 EZD
2022/1/19 1:32:57 PM	PS-FF02BF	USB	DA200	Ready	-	A2.12 EZD
2022/1/19 1:27:40 PM	PS-FF02BF	USB	DA200	Ready	-	A2.12 EZD

A blue box labeled 'Data information will display on this area' is overlaid on the table. At the bottom, there are navigation buttons and a page indicator '1 / 3'.

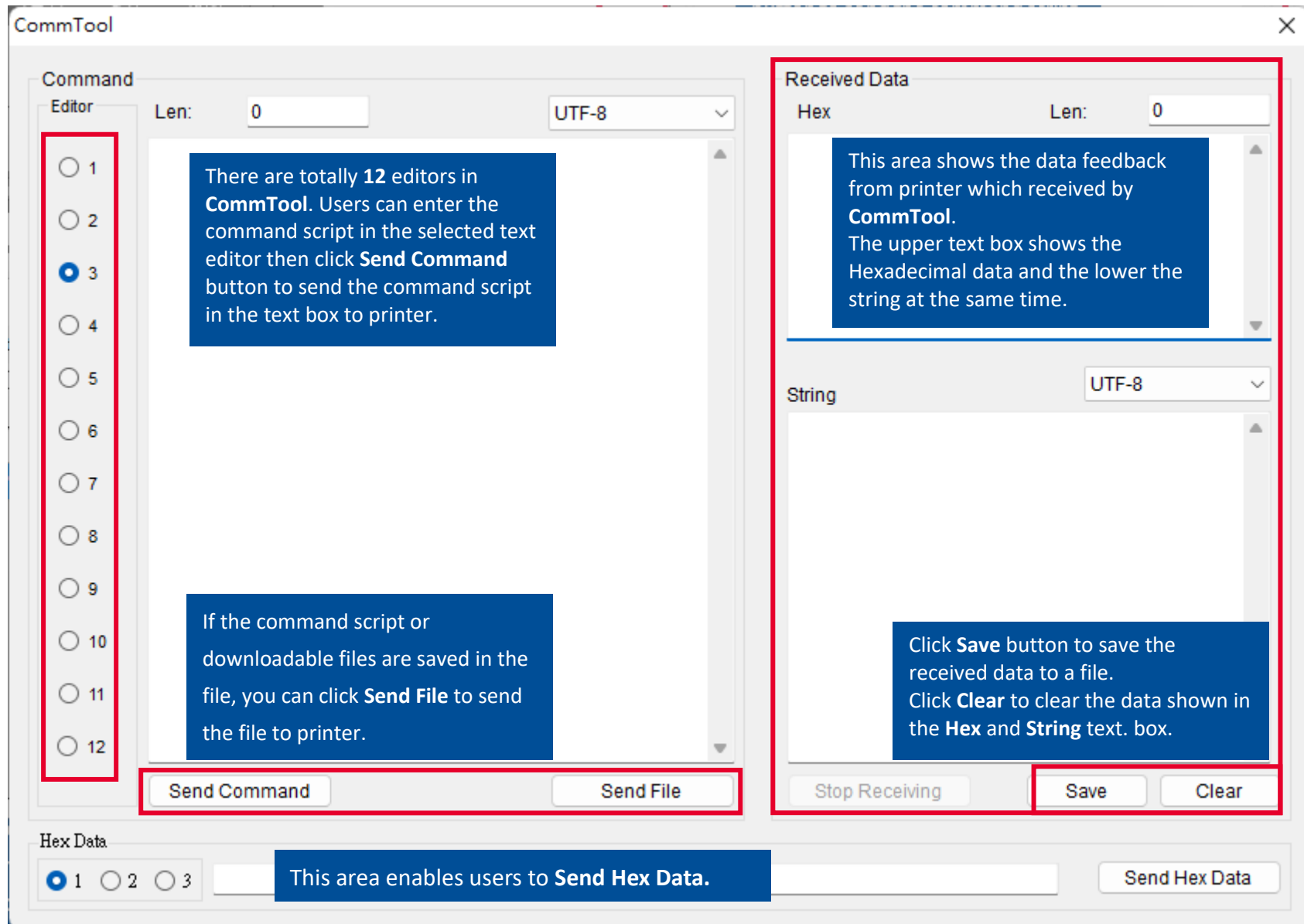
## 5. Tools

In this section, users are able to set up the printer by **Comm Tool**, or download and edit the files by **File Manager** and **Bitmap Font Manager**.



## 5.1 Comm Tool

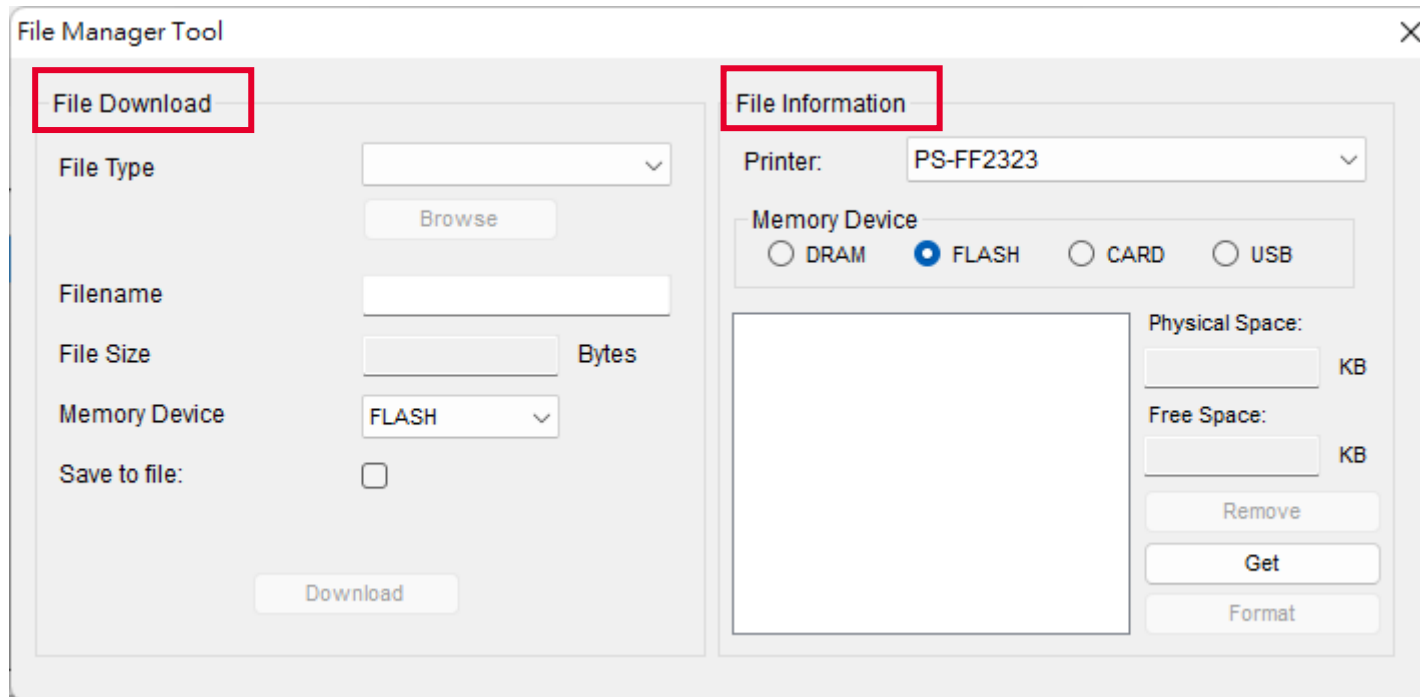
**CommTool** supports programming languages and the hex data commands.



## 5.2 File Manager Tool

**File Manager** helps users download files and delete files from printers' memory.

- **File Download** shows the interface for selecting file types, filename and download destination.
- **File Information** indicates downloaded files and available memory, deleting files in the selected memory device.



The screenshot displays the 'File Manager Tool' window, which is divided into two main sections: 'File Download' and 'File Information'. Both section headers are highlighted with red boxes.

**File Download Section:**

- File Type:** A dropdown menu with a 'Browse' button next to it.
- Filename:** A text input field.
- File Size:** A text input field followed by the label 'Bytes'.
- Memory Device:** A dropdown menu currently set to 'FLASH'.
- Save to file:** An unchecked checkbox.
- Download:** A button at the bottom of the section.

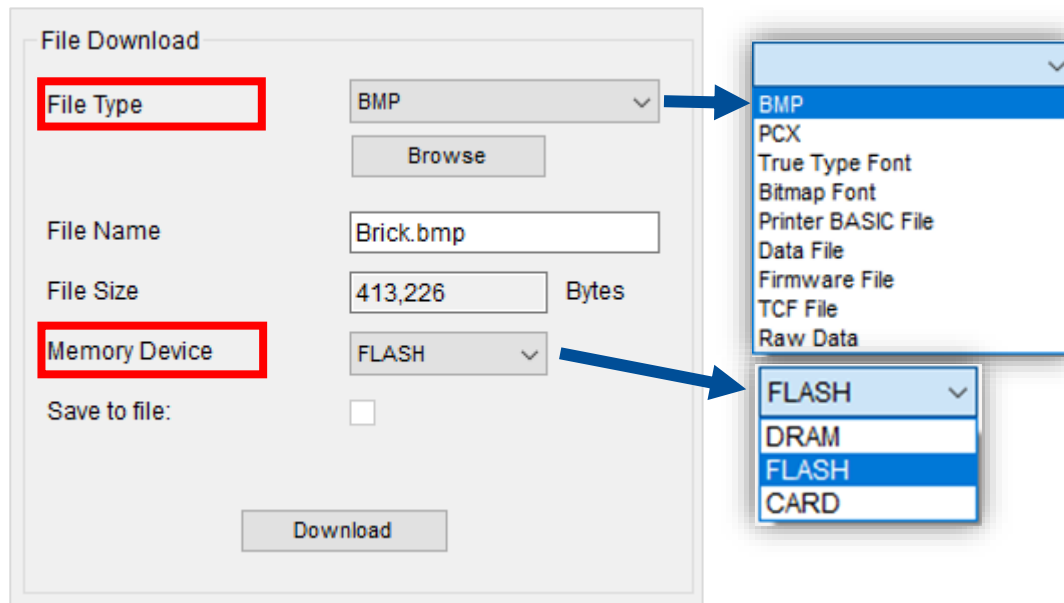
**File Information Section:**

- Printer:** A dropdown menu showing 'PS-FF2323'.
- Memory Device:** Radio buttons for 'DRAM', 'FLASH' (selected), 'CARD', and 'USB'.
- Physical Space:** A text input field followed by 'KB'.
- Free Space:** A text input field followed by 'KB'.
- Remove:** A button.
- Get:** A button.
- Format:** A button.

## 5.2.1 Download Files

Below steps will demonstrate how to download the files to the printer:

1. Choose the **File Type**.
2. Select **Browse** to find the file.
3. Specify the **Memory Device** to be stored with.
4. Import file to printer by clicking **Download**.



### Note:

- BPM, PCX, True Type Font, Bitmap Font, Printer BASIC File, and Data File will automatically generate the header and save to specified memory device through File Manager before downloading.
- Enable Save to File could save the file to memory device as well.

## 5.2.2 Manage the Storage

Below steps will demonstrate how to manage the storage from the printer:

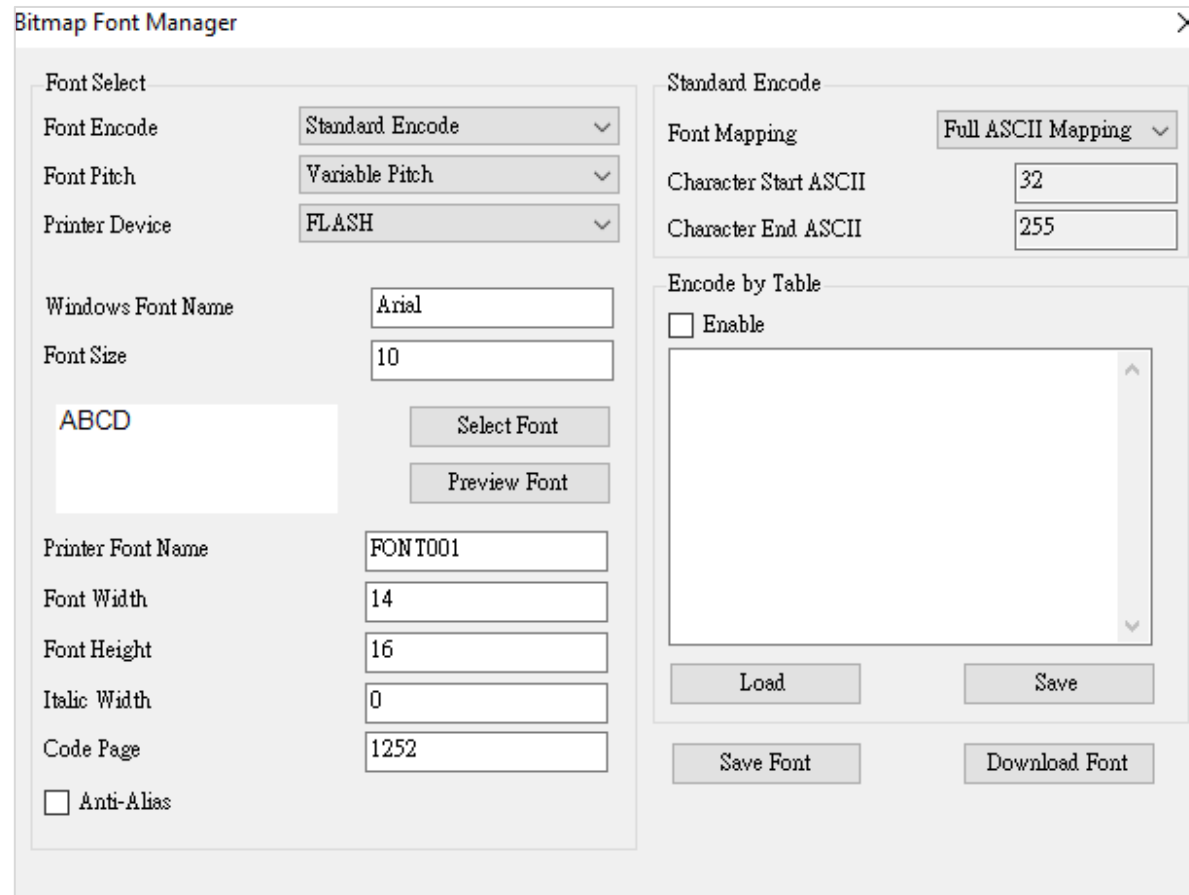
1. Specify the **Memory Device** and click **Get**.
2. Delete the file by clicking **Remove**.
3. Click **Format** to clean the memory.

The screenshot shows a 'File Information' dialog box for a printer. At the top, there is a 'Printer:' dropdown menu set to 'PS-80E984'. Below this is a 'Memory Device' section with four radio buttons: 'DRAM', 'FLASH' (which is selected), 'CARD', and 'USB'. A table below shows a file named 'Brick.bmp'. To the right of the table, there are two rows of information: 'Physical Space: 131072 KB' and 'Free Space: 80348 KB'. At the bottom right, there are three buttons: 'Remove', 'Get', and 'Format'. The 'Remove' button is highlighted with a red box.

File Name	Physical Space	Free Space
Brick.bmp	131072 KB	80348 KB

## 5.3 Bitmap Font Manager

**Bitmap Font Manager** could convert the selected TTF font into printer format bitmap font. Both fixed pitch and variable pitch bitmap font are supported.



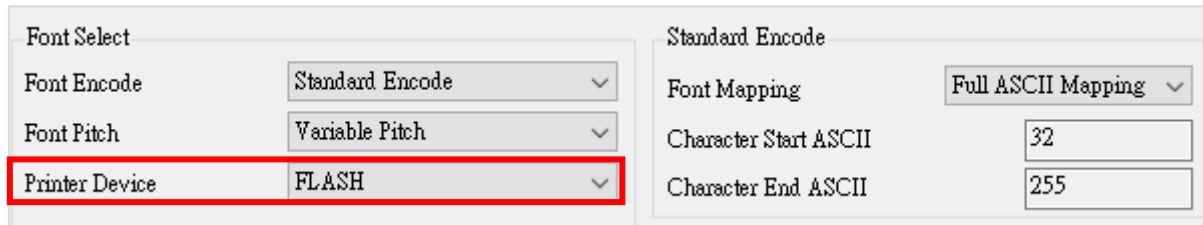
The screenshot shows the 'Bitmap Font Manager' application window. The interface is divided into several sections:

- Font Select:** Includes dropdown menus for 'Font Encode' (Standard Encode), 'Font Pitch' (Variable Pitch), and 'Printer Device' (FLASH).
- Windows Font Name:** A text input field containing 'Arial'.
- Font Size:** A text input field containing '10'.
- Preview:** A text area showing 'ABCD' in the selected font style.
- Printer Font Name:** A text input field containing 'FONT001'.
- Font Width:** A text input field containing '14'.
- Font Height:** A text input field containing '16'.
- Italic Width:** A text input field containing '0'.
- Code Page:** A text input field containing '1252'.
- Anti-Alias:** An unchecked checkbox.
- Standard Encode:** Includes a 'Font Mapping' dropdown (Full ASCII Mapping), 'Character Start ASCII' (32), and 'Character End ASCII' (255) text input fields.
- Encode by Table:** An unchecked checkbox labeled 'Enable' and a large empty text area for mapping.
- Buttons:** 'Select Font', 'Preview Font', 'Load', 'Save', 'Save Font', and 'Download Font' are located at the bottom of the window.

### 5.3.1 Download Fonts to Printer

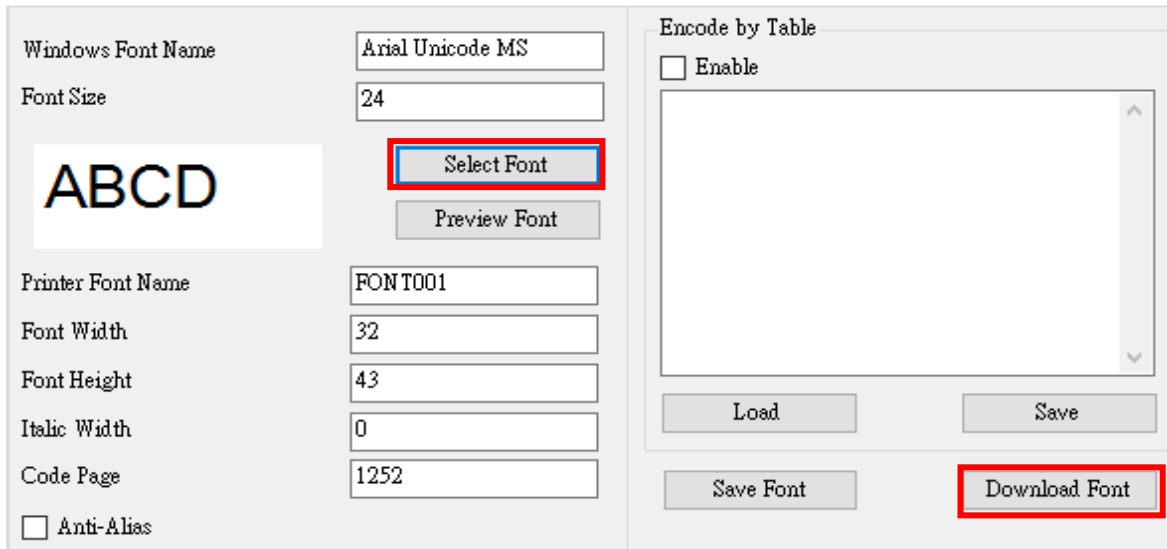
Below steps will demonstrate how to download fonts to the printer:

1. Set up font setting and **Printer Device**.



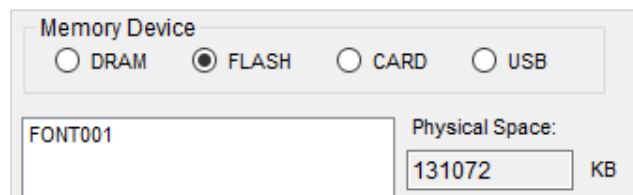
The screenshot shows a configuration window for font settings. On the left, under 'Font Select', there are four dropdown menus: 'Font Encode' (Standard Encode), 'Font Pitch' (Variable Pitch), and 'Printer Device' (FLASH, highlighted with a red box). On the right, under 'Standard Encode', there are two more dropdown menus: 'Font Mapping' (Full ASCII Mapping) and two text input fields for 'Character Start ASCII' (32) and 'Character End ASCII' (255).

2. Select Font and click **Download Font** to finish settings.



The screenshot shows a font selection and encoding interface. On the left, there are several input fields: 'Windows Font Name' (Arial Unicode MS), 'Font Size' (24), 'Printer Font Name' (FONT001), 'Font Width' (32), 'Font Height' (43), 'Italic Width' (0), and 'Code Page' (1252). There is also an 'Anti-Alias' checkbox. A preview window shows the letters 'ABCD'. A 'Select Font' button is highlighted with a red box. On the right, there is an 'Encode by Table' section with an 'Enable' checkbox and a large empty table area. Below the table are 'Load' and 'Save' buttons. At the bottom, there are 'Save Font' and 'Download Font' buttons, with the latter highlighted by a red box.

3. Check **File Manager**.



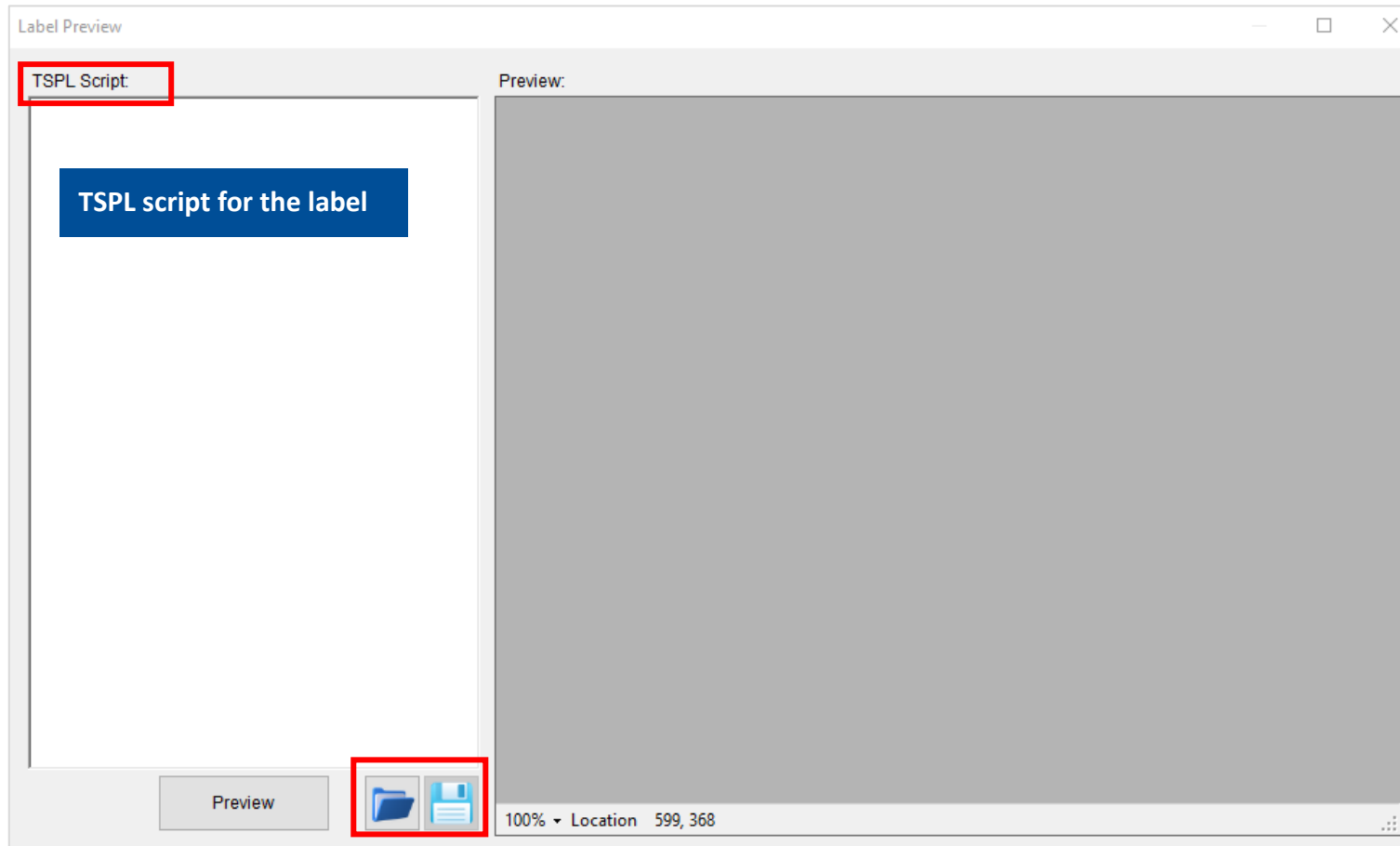
The screenshot shows a 'File Manager' interface. At the top, there is a 'Memory Device' section with four radio buttons: 'DRAM', 'FLASH' (selected), 'CARD', and 'USB'. Below this, there is a text input field containing 'FONT001' and a 'Physical Space:' section with a text input field containing '131072' and the unit 'KB'.



## 5.4 Label Preview

**Label Preview** enables user to preview the label by TSPL command or loading the file.

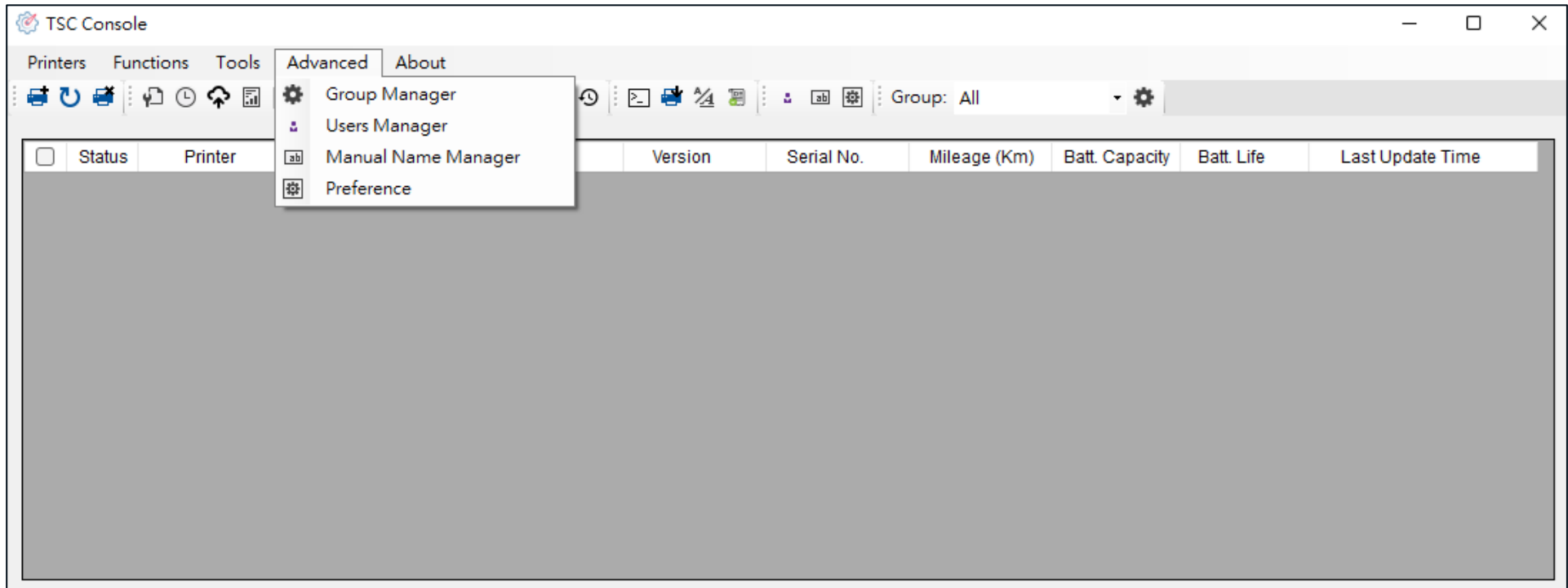
**Note:** This function is only supported after firmware version 2.13



Load the file / Save TSPL script

## 6. Advanced

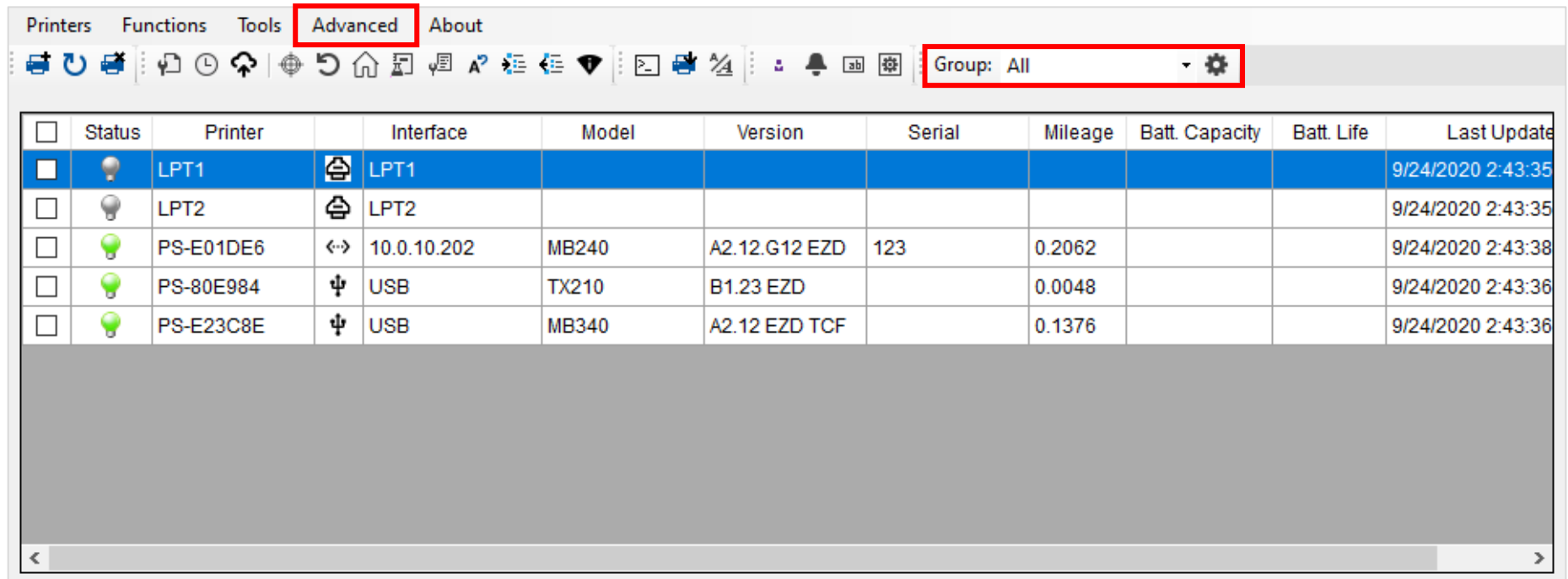
In **Advanced** section, users are able to set the group setting, set the password and alert, and adjust preference through TSC console to the printer.



## 6.1 Group Manager

Use **Group Manager** to select and filter the certain interface to make it easier to setup printers.


Click **Advanced** to access **Group Manager** or click on the **Quick Access Icon** as below.

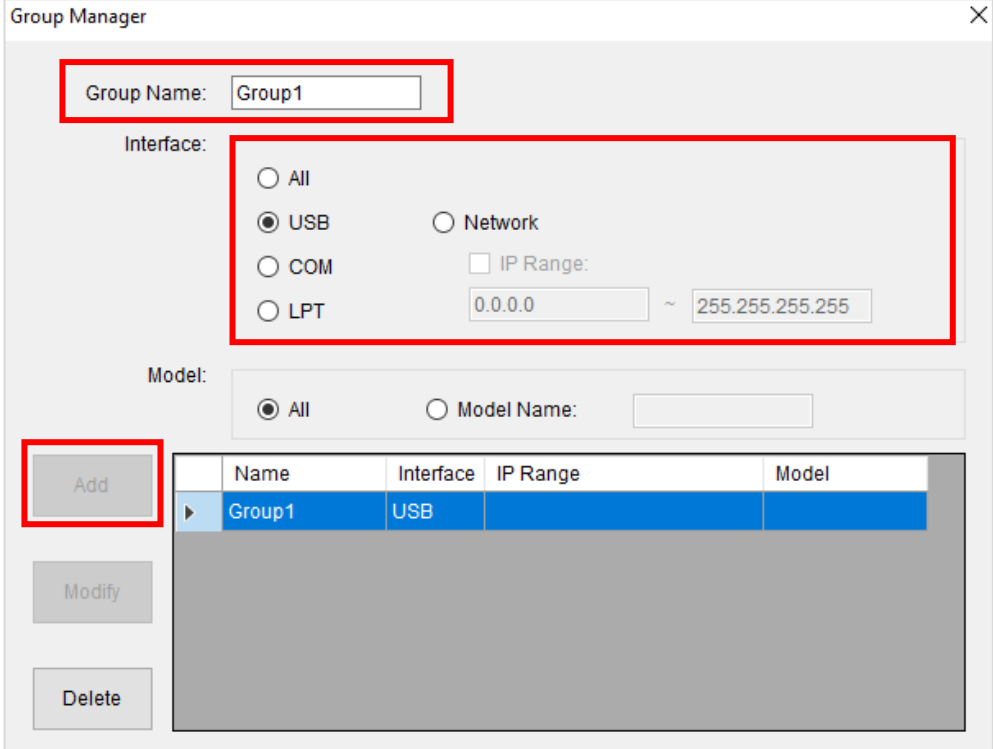


The screenshot displays the Group Manager interface with the following data:

<input type="checkbox"/>	Status	Printer	Interface	Model	Version	Serial	Mileage	Batt. Capacity	Batt. Life	Last Update
<input checked="" type="checkbox"/>		LPT1	LPT1							9/24/2020 2:43:35
<input type="checkbox"/>		LPT2	LPT2							9/24/2020 2:43:35
<input type="checkbox"/>		PS-E01DE6	10.0.10.202	MB240	A2.12.G12 EZD	123	0.2062			9/24/2020 2:43:38
<input type="checkbox"/>		PS-80E984	USB	TX210	B1.23 EZD		0.0048			9/24/2020 2:43:36
<input type="checkbox"/>		PS-E23C8E	USB	MB340	A2.12 EZD TCF		0.1376			9/24/2020 2:43:36

### 6.1.1 Group the Certain Interface

1. Enter the Group Manager. 
2. Type the Group Name.
3. Select the Interface.
4. Click Add to complete setting.
5. Back to interface and select Group.



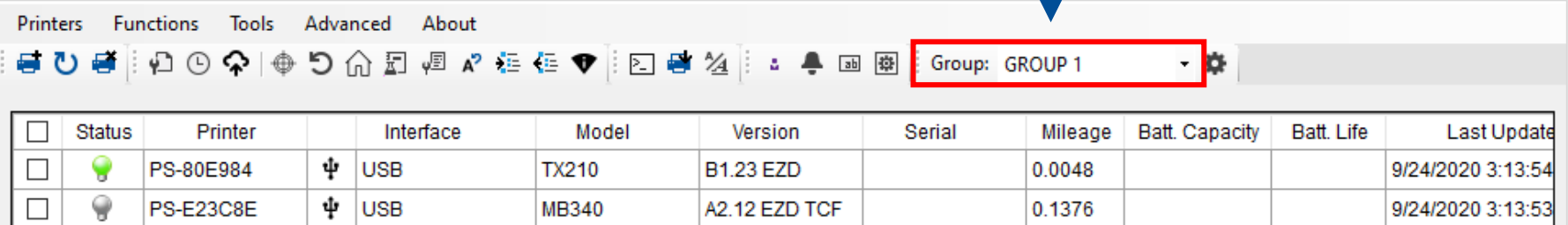
The Group Manager dialog box is shown with the following settings:

- Group Name: Group1
- Interface: USB (selected), Network, COM, LPT
- IP Range: 0.0.0.0 ~ 255.255.255.255
- Model: All (selected), Model Name: [ ]





The Add button is highlighted with a red box. Below the settings is a table with the following data:

Name	Interface	IP Range	Model
Group1	USB		

Buttons for Add, Modify, and Delete are visible on the left side of the dialog.



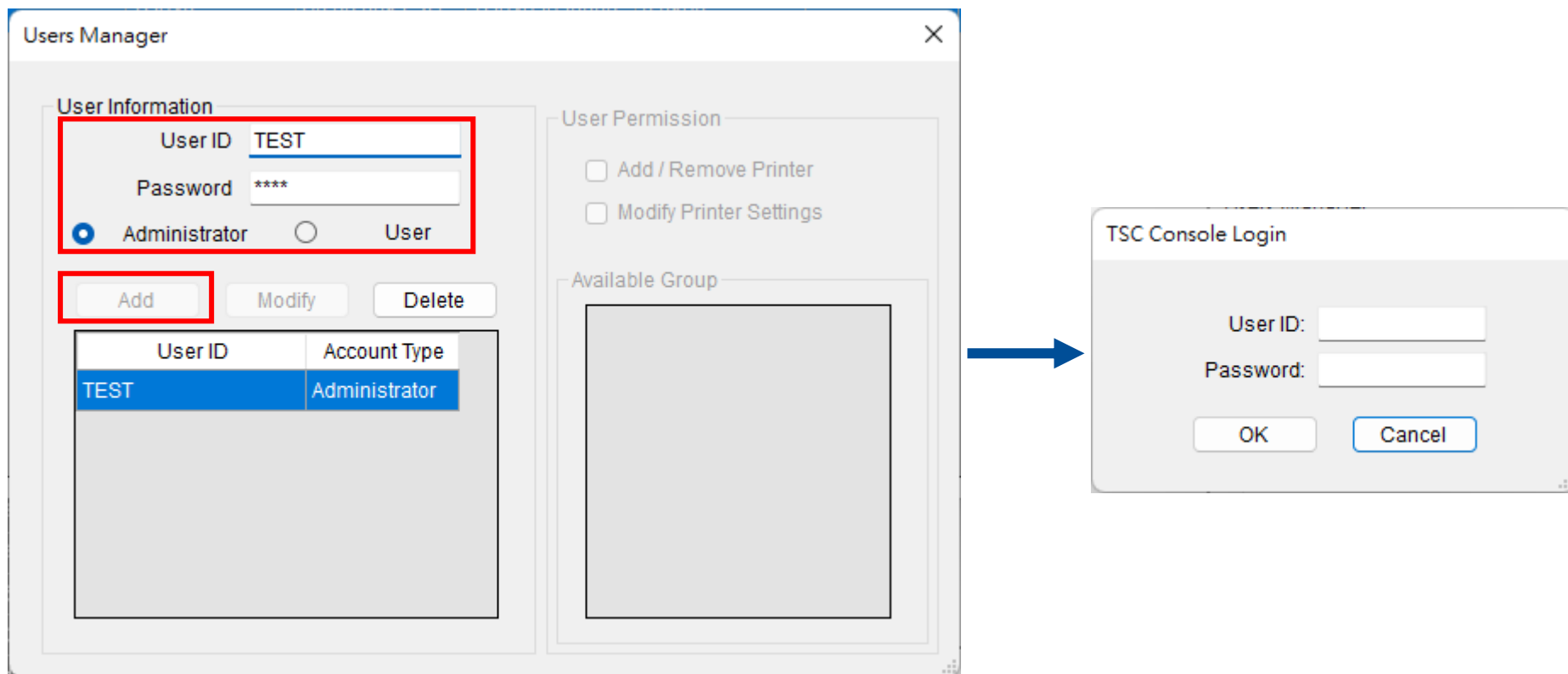
The printer management interface shows a toolbar with various icons and a dropdown menu set to "Group: GROUP 1". Below the toolbar is a table with the following data:

Status	Printer	Interface	Model	Version	Serial	Mileage	Batt. Capacity	Batt. Life	Last Update
	PS-80E984	 USB	TX210	B1.23 EZD		0.0048			9/24/2020 3:13:54
	PS-E23C8E	 USB	MB340	A2.12 EZD TCF		0.1376			9/24/2020 3:13:53

## 6.2 Users Manager

This function allows user to set the password on **TSC Console** for protecting printers' setting.

1. Enter the **User ID** and **Password**.
2. Click **Add** to complete setup and **TSC Console** will restart.



## 6.3 Manual Name Manager

**Manual Name Manager** provides the function which could help users modify printers' name making it more recognizable.

- Edit the manual name by using **Batch Modification** or **double click** the **Manual Name Column**

Manual Name Manager

Batch Modification

Prefix String:  Starting Number:

Printer Name ▲	Model		Interface	Manual Name (Editable)
PS-80E984		⚡	USB	A
PS-E01DE6		↔	10.0.10.202	B

Manual Name (Editable)

Printer\_0

Printer\_1

## 6.4 Preference

Preference provide users functions to adjust system settings and languages.

The image shows a 'Preference' dialog box with the following sections and controls:

- Run at Windows Startup:** On/Off: OFF (dropdown)
- Show Offline Printer:** On/Off: ON (dropdown)
- Command Port:** Setup (button)
- Auto Refresh Status:** On/Off: ON (dropdown), Time Interval: 5 min (dropdown)
- Auto Renew IP Address:** On/Off: ON (dropdown), Subnet: Setup (button)
- Mainview Data Field:**
  - Model Name
  - Firmware Version
  - Serial Number
  - Printed Mileage
  - Smart Battery Capacity
    - Warning Threshold: 20 %
  - Smart Battery Life
  - Last Update Time
- Language:** English (dropdown)

Buttons: OK, Cancel

# 7. Revision History

Date	Content	Editor





[www.tscprinters.com](http://www.tscprinters.com)