SII Communication Setting Utility for Windows
User's Guide

Rev.02

[Products]

MP-B21L Series

MP-B30L Series

MP-B30 Series

MP-B20 Series

MP-A40 Series

RP-F10 Series

RP-G10 Series

RP-E10 Series

CAP06 Series

Seiko Instruments Inc.

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Introduction

This manual describes "SII Communications Setting Utility for Windows" (hereinafter referred to as the "software") provided by Seiko Instruments Inc. (hereinafter referred to as "SII").

Notation in This Manual

The notation in this manual is described.

Operation and Display

In principle, this manual is written on the basis of the following conditions:

- Screenshots and display layouts of Windows 10
- Operating instructions with a mouse and a keyboard

Terms

The terms used in this manual are defined as below.

Term	Description
Printer	SII printer
Printer driver	"SII Printer Driver for Windows" for SII printer
iSerialNumber	Content defined in iSerialNumber field of USB device descriptor
Technical Reference	Technical References shown as follows: ・MP-B21L SERIES THERMAL PRINTER TECHNICAL REFERENCE ・MP-B30L SERIES THERMAL PRINTER TECHNICAL REFERENCE ・MP-B30 SERIES THERMAL PRINTER TECHNICAL REFERENCE ・MP-B20 SERIES THERMAL PRINTER TECHNICAL REFERENCE ・MP-A40 SERIES THERMAL PRINTER TECHNICAL REFERENCE ・RP-F10 SERIES THERMAL PRINTER TECHNICAL REFERENCE ・RP-G10 SERIES THERMAL PRINTER TECHNICAL REFERENCE ・RP-E10 SERIES THERMAL PRINTER TECHNICAL REFERENCE ・PT06-57SU-01 (CPU) CGJG-02 (CG ROM) CAP06-x47 SERIES CONTROL CHIP SET TECHNICAL REFERENCE ・IF06-7S-01/IF06-7U-01 INTERFACE BOARD TECHNICAL REFERENCE ・PT06-57SU-01 (CPU) CGJG-02 (CG ROM) CAP06-245 SERIES CONTROL CHIP SET TECHNICAL REFERENCE ・IF06-5S-01/IF06-5U-01 INTERFACE BOARD TECHNICAL REFERENCE
Printer command	Instruction to control the printer, described in "Technical Reference"

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Chapter 1 Overview

This chapter describes the overview of this software.

This software is for changing the communication settings of the printer.
The following communication settings can be changed with this software:

- Bluetooth communication settings
- LAN communication settings*1
- USB communication settings
- Serial communication settings

*1: Basically set up using a Web browser.
This software can set some items as a supplement to Web browser setting.

1.1 Target Products

The products covered by this software are as follows.

Printer	Printer Driver
MP-B21L series MP-B30L series MP-B30 series MP-B20 series MP-A40 series RP-F10 series RP-G10 series RP-E10 series CAP06 series	SII Printer Driver for Windows

Chapter 2 Installation

For the installation, see "SII Software Package for Windows Installation Guide".

Chapter 3 Communication Settings

This chapter describes the setting screen of the software.

3.1 Screen Layout

The screen layout of the software is described.

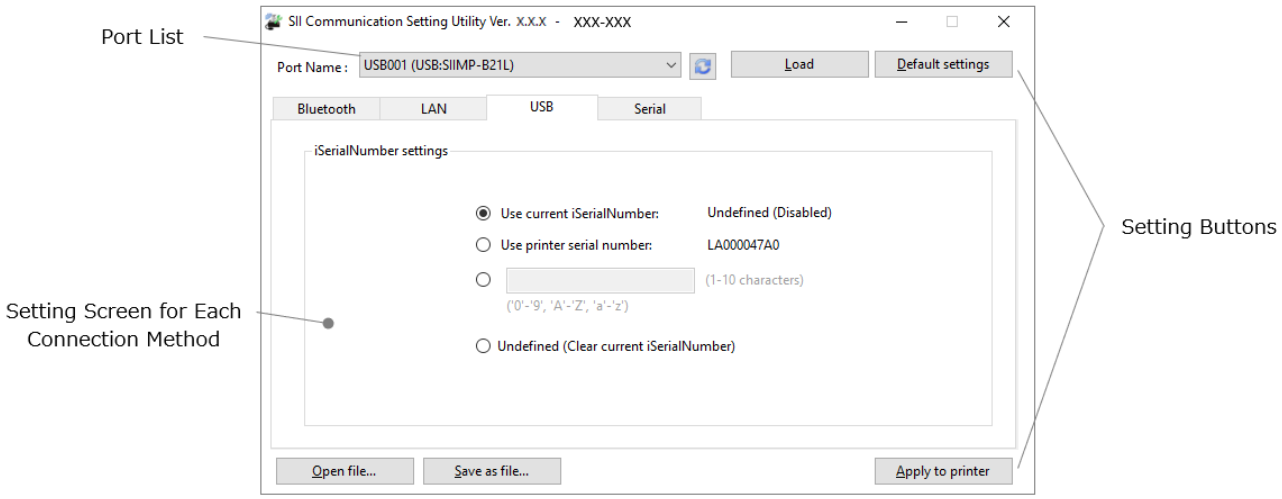


Figure 3-1 Whole view

3.1.1 Port List

The port list shown in Figure 3-1 is described below.

Name	Description
Port Name	Displays available port name and port information.
Refresh	Updates the list of [Port Name]. Update the list with this button, for example, when connected the printer after starting this software.

3.1.2 Setting Buttons

The setting buttons shown in Figure 3-1 are described below.

Name	Description
Load	Loads and displays the setting information of the printer connected to the port selected in [Port Name].
Default settings	Loads the default settings from the printer and displays them. The settings currently displayed will be overwritten with the default settings.
Open file…	Loads and displays the saved file (*.scs, *.scsw).
Save as file…	Saves the contents displayed in the setting screen for each connection method as a file (*.scs, *.scsw).
Apply to printer	Writes the contents displayed in the setting screen for each connection method to the printer.

3.1.3 Setting Screen for Each Connection Method

Communication setting of each connection method can be performed. See "Technical Reference" for details of the setting items.

Caution

◆ Only the setting content of the tab of the connection method that the printer supports is displayed.

Bluetooth communication settings

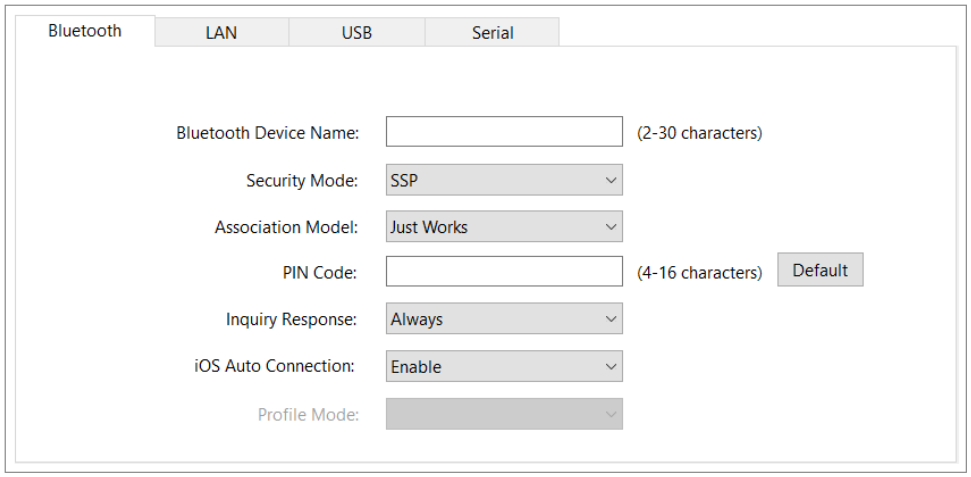


Figure 3-2 [Bluetooth] Tab Screen (Example)

Name	Description
Bluetooth Device Name	Used to enter the Bluetooth device name.*1 2 to 30 characters can be entered. If the text box is blank, it is ignored.

Name	Description
Security Mode	Selects for Security Mode. SSP*2: Used to connect to the Bluetooth host with SSP (Model4, Just Works). If the Bluetooth host does not support SSP, PIN code is used for connecting even when SSP is selected. In normal cases, use this function with SSP. PIN code: Used to connect to the Bluetooth host with PIN code.
AssocModel	Select for Association Model. Just Works: The printer performs pairing using Just Works method. Numeric Comparison: The printer performs pairing using Numeric Comparison method. The printer prints a 6-digit authentication code when pairing with the Bluetooth host. When the thermal paper is not set in the printer during printing, an out-of-paper error occurs and the pairing is aborted. Confirm that the printed authentication code matches the authentication code displayed on the Bluetooth host, and approve the Bluetooth host. When pressing the printer's FEED Switch, the pairing is completed. When pressing the printer's POWER Switch, the pairing is canceled. If neither switch is pressed, the printer will time out in about 30 seconds and stop pairing.
PIN Code	Used to enter PIN Code.*1 4 to 16 characters can be entered. If the text box is blank, it is ignored. PIN code is not loaded even when the [Load] button is clicked.
Default	'0000' is input in [PIN Code].
Inquiry Response	Selects for Inquiry Response. Pairing Mode: The printer responds to the search from the Bluetooth host only during pairing mode. To enable the printer to be in pairing mode, turn off the printer power and then press the power switch for 7 seconds or more. When the POWER LED is blinked, the printer enters pairing mode for about 60 seconds. Always: The printer always responds to the search from the Bluetooth host.
iOS Auto Connection	Selects for iOS Auto Connection. Disable: iOS Auto Connection is disabled. Enable: When the connection with the iOS device is disconnected, the printer attempts to reconnect to the iOS device that was last connected.
Profile Mode	Select for profile mode. SPP : Set Serial Port Profile (SPP). When connect from the device such as Android or Windows PC, set this Profile Mode to [SPP]. iAP2 : Set Accessory Protocol for iOS (iAP2). When connect from iOS device, set this Profile Mode to [iAP2].

*1: The characters available for setting are as follows:
'0' to '9', 'a' to 'z', 'A' to 'Z', '+', '-', '_', '#', '*', and ' ' (space: 20H)

*2: The Bluetooth function of Ver.2.1 or later supports SSP.

Caution

◆ Bluetooth connection is not supported by Windows Server 2025, 2022, 2019 or 2016.

LAN communication settings

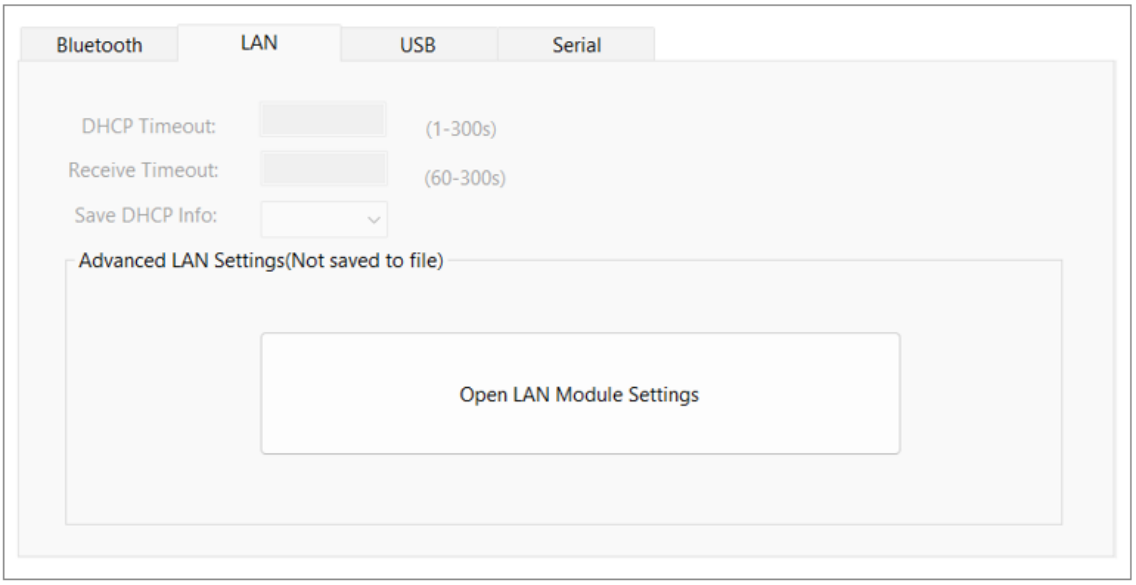


Figure 3-3 [LAN] Tab Screen (Only with LAN connection)

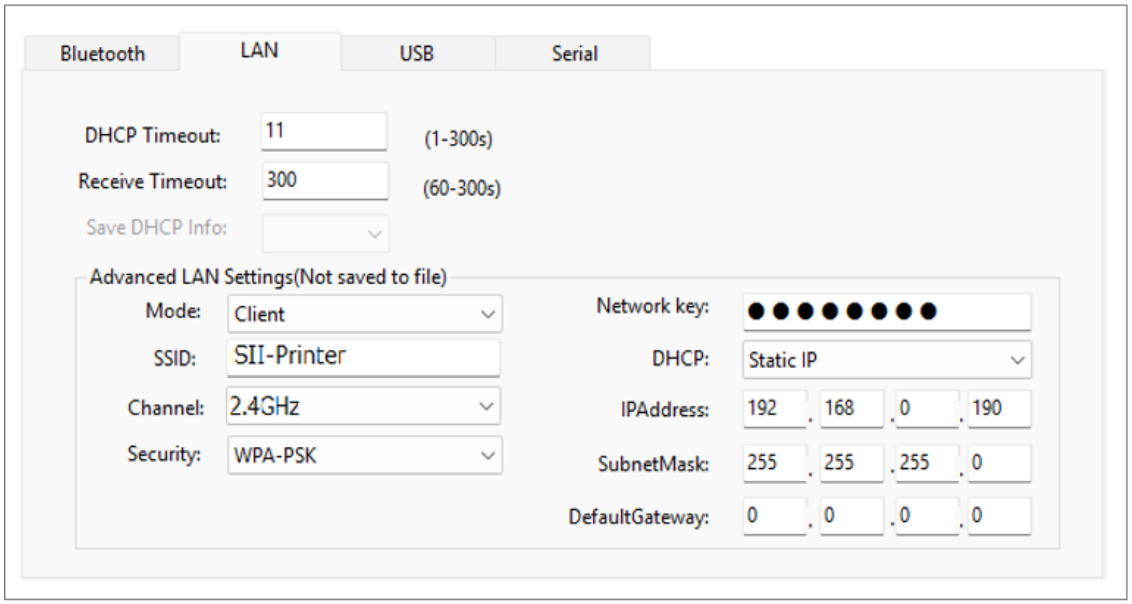


Figure 3-4 [LAN] Tab Screen
(For Client, only for MP-B21L, MP-B30L, or MP-B30, and USB communication)

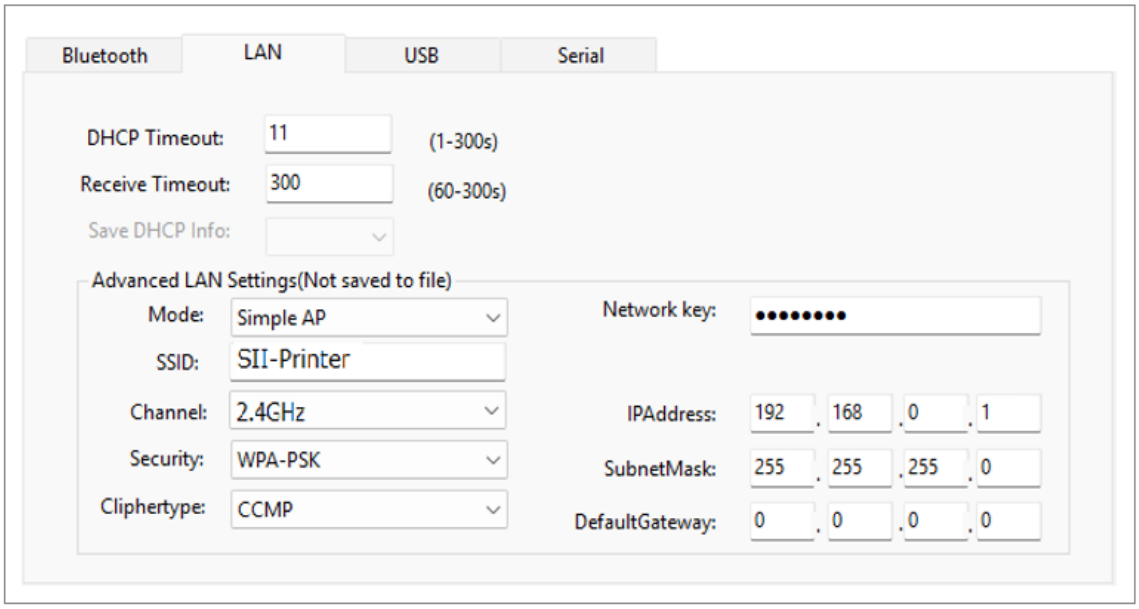


Figure 3-5 [LAN] Tab Screen
(For Simple AP, only for MP-B21L, MP-B30L, or MP-B30, and USB communication)

Name	Description
DHCP Timeout	Used to set the DHCP timeout period.
Receive Timeout	Used to set the receive timeout period.
Save DHCP Info	Set the saving DHCP info. Disable: Saving is disabled. (Default) Enable: Saving is enabled. When setting is "Enable", IP address and Subnet mask information retrieved by DHCP is saved in Wireless LAN interface.
LAN Advanced Settings (Only for LAN connection)*1	
Open LAN Module Settings	Opens the printer's LAN settings in Web browser setting. It can be opened only with LAN connection.
LAN Advanced Settings (Only for MP-B21L, MP-B30L, or MP-B30, and USB communication)*1	
Mode	Selects the communication mode. Client: Client Simple AP: Simple AP (Default)
SSID	Sets the SSID.
Channel	Selects the Channel. 2.4GHz: 2.4GHz(802.11b/g/n) 5GHz: 5GHz(802.11a/n) (Default)
Security	Selects the Security. None (Default) WEP*2 WPA-PSK WPA2-PSK WPA-Enterprise*2 WPA2-Enterprise*2
Cliphertype	Sets the encryption method. TKIP CCMP

Name		Description
	Network key	Sets the WPA PSK pre-shared key.
	DHCP	Selects the method for specifying the IP address of the wireless LAN interface. Static IP: Fixed IP address Dynamic IP: Dynamic IP address (Default)
	IPAddress	Sets the IP Address. Enter the address according to your network environment.
	SubnetMask	Sets the Subnet Mask.
	DefaultGateway	Sets the Gateway Address.

1: This setting is not saved to the file (.scs, *.scsw).
*2: Use the Web browser setting to set advanced security settings.

USB communication settings

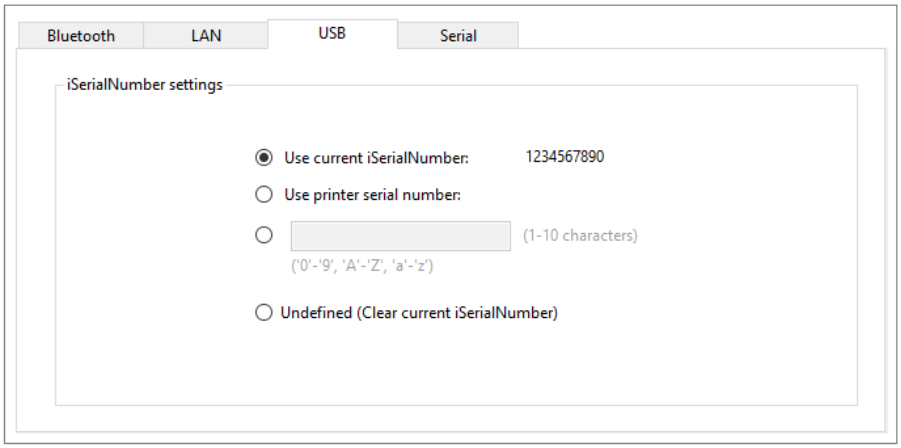


Figure 3-6 [USB] Tab Screen

Name	Description
iSerialNumber settings	・Use current iSerialNumber: Uses the USB iSerialNumber currently set for the printer. iSerialNumber is not set at the shipping. ・Use printer serial number: Sets the serial number of the printer to iSerialNumber. ・Input text box: Sets a character string to iSerialNumber.*1 The number of characters of the string that can be entered is 1 to 10. ・Undefined: Clears the USB iSerialNumber currently set for the printer.

*1: The characters available for setting are as follows:
'0' to '9', 'A' to 'Z', 'a' to 'z'

Caution

◆ When iSerialNumber is changed in the state that the connection method with the printer is USB communication, the assignment of the port to which the printer is connected may be changed.

Serial communication settings

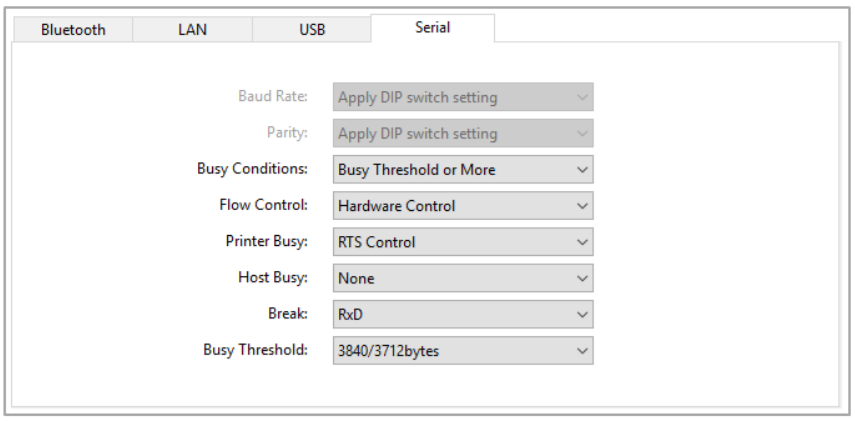


Figure 3-7 [Serial] Tab Screen

Name	Description
Baud Rate	Selects for the communication speed. Apply DIP switch setting*1 115200 bps 38400 bps 19200 bps 9600 bps
Parity	Selects for the parity. Apply DIP switch setting*1 None Odd None Even
Busy Conditions	Selects for the condition to be busy. Busy Threshold or More or Error Busy Threshold or More
Flow Control	Selects for the flow control. Xon/Xoff Control Hardware Control
Printer Busy	Selects for the printer busy control. DTR Control RTS Control
Host Busy	Selects for the host busy control. CTS/DSR Control None
Break	Selects for the terminal that performs break processing (hardware reset) by break signal. RxD and DSR RxD

Name	Description
Busy Threshold	Selects the threshold for being busy / releasing busy. 30/19bytes: More than 30 bytes is to be busy and less than 19 bytes is to release busy. 3840/3712bytes: More than 3840 bytes is to be busy and less than 3712 bytes is to release busy.

*1: The current setting value of the DIP switch is displayed on the right of the pull-down menu when the value of the corresponding name in the printer command "Set Serial Communication" is set to "Apply DIP switch setting" and under either of the following conditions:

・When the communication settings of the printer are loaded automatically with one printer recognized by the host.

・When the [Load] button or [Default settings] button is clicked with the printer connected.

See "Technical Reference" for the printer command.

3.2 Function

The function of the software is described.

3.2.1 Confirm Current Communication Settings

The procedure for confirming the current communication settings of the printer is described below.

1. Make sure that the connected printer can communicate.
2. Start the software.
   When there is only one port that the host recognizes, the communication settings of the printer connected to the port are loaded automatically at the software startup. Proceed to step 4.
3. When there are multiple ports that the host recognizes, select the port to which the printer is connected from [Port Name], and click the [Load] button.

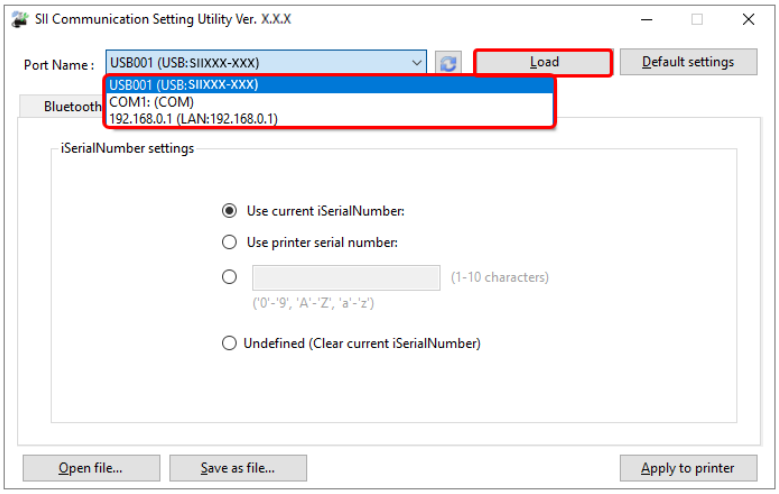


Figure 3-8 Port Selection

4. The communication settings are loaded, and the setting screen switches to the tab of the current connection method.

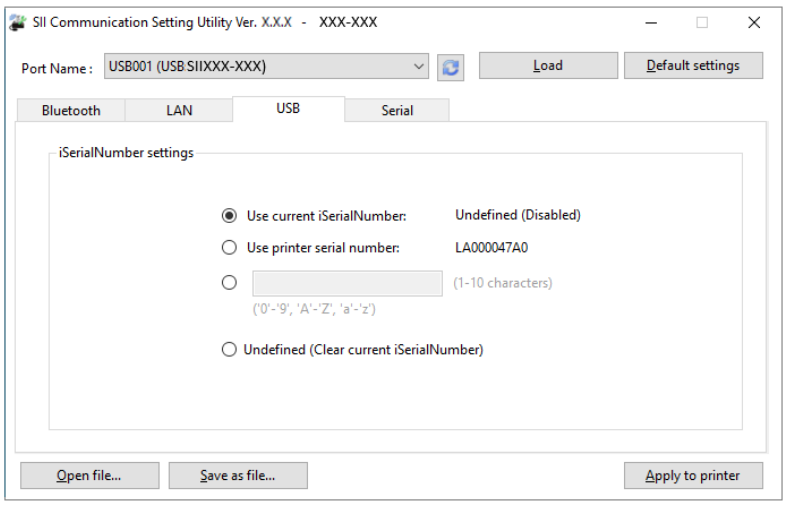


Figure 3-9 Communication Setting Display

Caution

- To confirm the communication settings of the newly connected printer after starting the software, click the [Refresh] button to update [Port Name].
- Even when the [Load] button is clicked, the Bluetooth PIN code is not loaded.

3.2.2 Change Communication Settings

The procedure for changing the communication settings of the printer is described below.

1. Follow the steps of "3.2.1 Confirm Current Communication Settings" to display the current communication settings of the printer.
2. Change the contents of the communication settings, and then click the [Apply to printer] button. The communication settings are written to the printer.

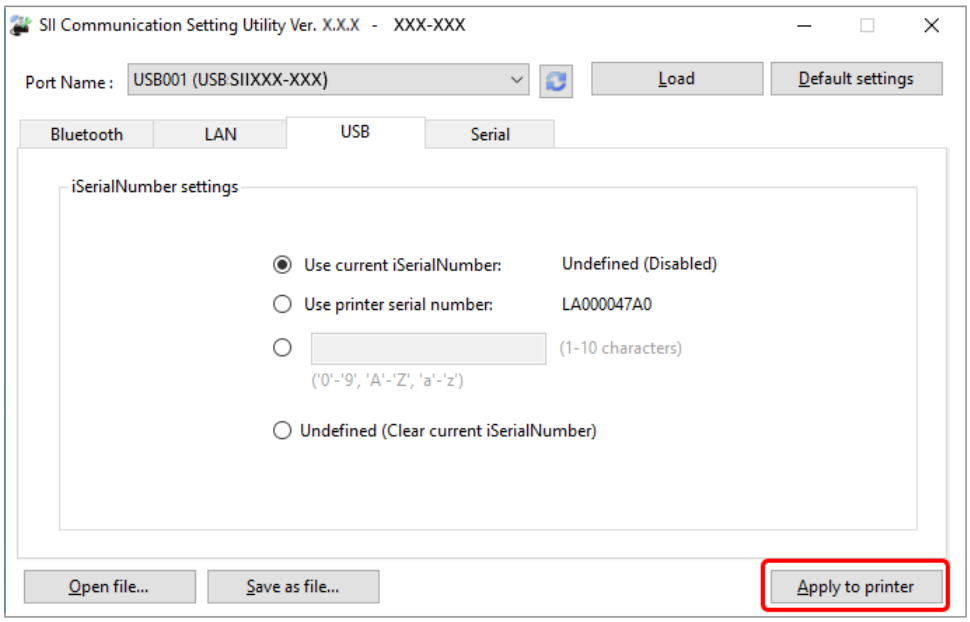


Figure 3-10 Change Communication Settings

Caution

- When iSerialNumber is changed in the state that the connection method with the printer is USB communication, the assignment of the port to which the printer is connected may be changed.

Reference

- ◆ The setting will not be changed if the input item in the screen is blank.
- ◆ When the communication settings are written to the printer, the printer is reset to enable the settings.

3.2.3 Restore Communication Settings to Default Settings

The procedure for restoring the communication settings of the printer to the default settings is described below.

1. Make sure that the connected printer can communicate.
2. Click the [Default settings] button to load the default settings from the printer and display them on the screen.

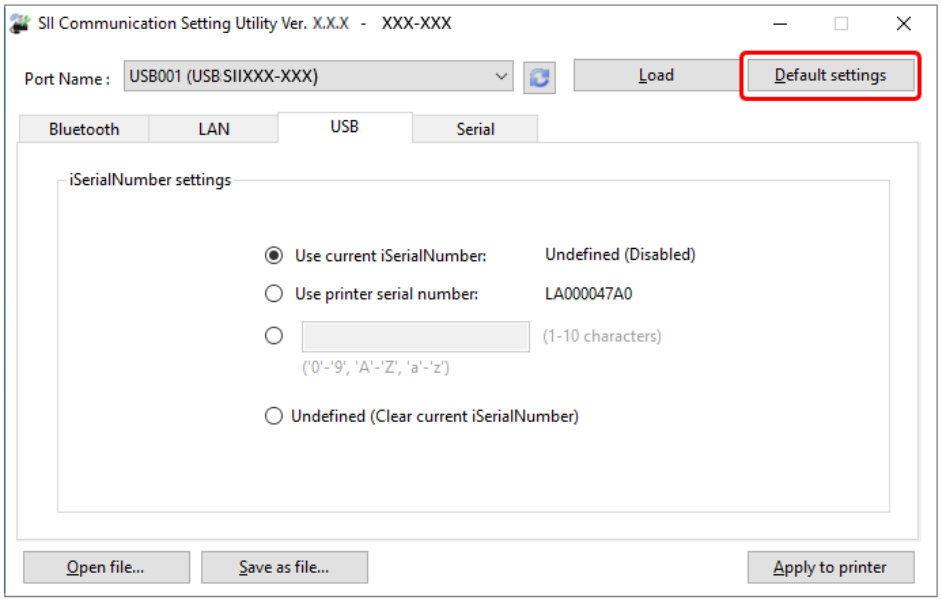


Figure 3-11 Default Settings

3. Click the [Apply to printer] button to write the communication settings to the printer.

Reference

- ◆ When the communication settings are written to the printer, the printer is reset to enable the settings.

3.2.4 Save Communication Settings to File

The procedure for saving the communication settings of the printer as a file (*.scs, *.scsw) is described below.

1. Display the communication settings of the printer in the procedure of "3.2.1 Confirm Current Communication Settings" or display the contents of the file in the procedure of "3.2.5 Write File Settings to Printer".

2. Change the communication settings when necessary.

3. Click the [Save as file…] button.

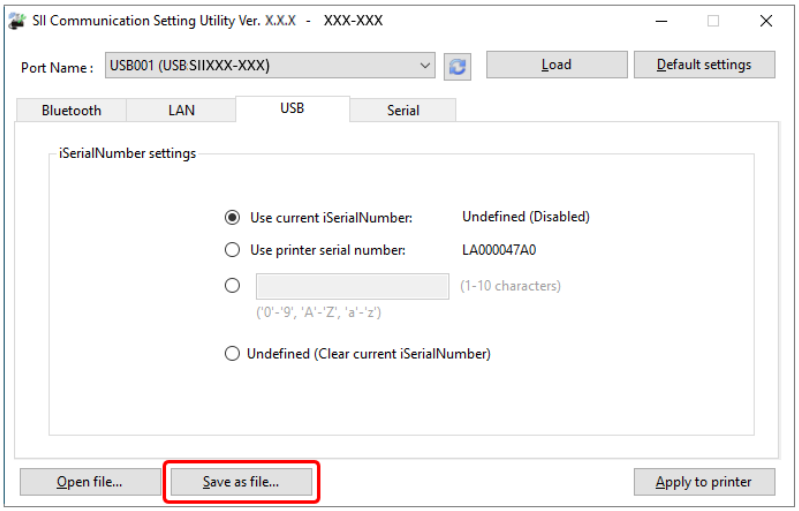


Figure 3-12 Save Communication Settings

4. Specify the location and the name of the file (*.scs, *.scsw).
   Click the [Save] button to save the settings as a file (*.scs, *.scsw).

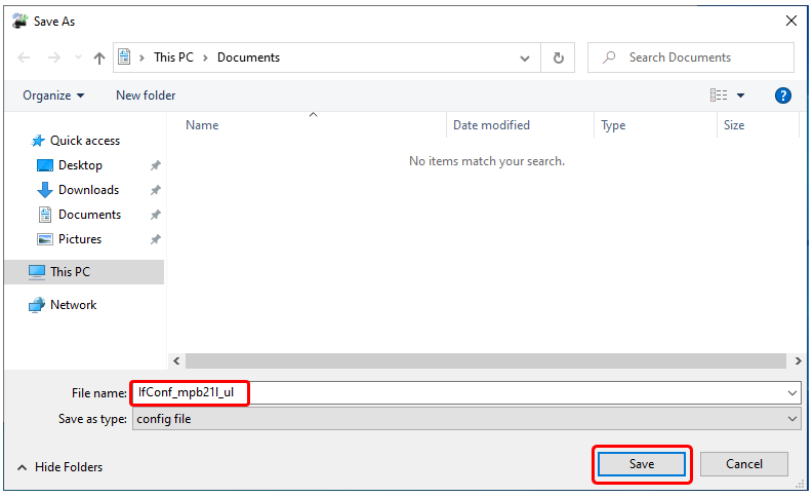


Figure 3-13 [Save as file…] Dialog

Caution

◆ The [PIN Code] setting in the [Bluetooth] tab is not saved in the file.

Reference

- The setting will not be saved in the file if the input item in the screen is blank.
- The default of the file name includes the printer series name and the abbreviation of the connection method of communication settings to be saved. The MP-B21L is shown below as an example.

IfConf_mpb21l_ul.scs

Printer series name Connection method abbreviation

The meanings of the connection method abbreviations are as follows:
Several abbreviations are listed together depending on the settings stored in the file.

u: USB communication settings
b: Bluetooth communication settings
l : LAN communication settings
s : Serial communication settings

3.2.5 Write File Settings to Printer

The procedure for writing the contents of the file (*.scs, *.scsw) saved in "3.2.4 Save Communication Settings to File" to the printer is described below.

1. Click the [Open file...] button.

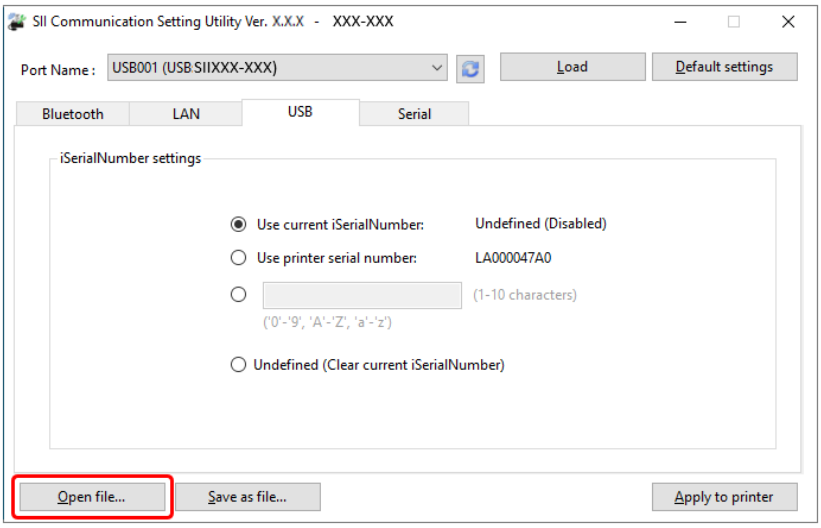


Figure 3-14 Open File (*.scs, *.scsw)

2. Select the file (*.scs, *.scsw), and click the [Open] button.

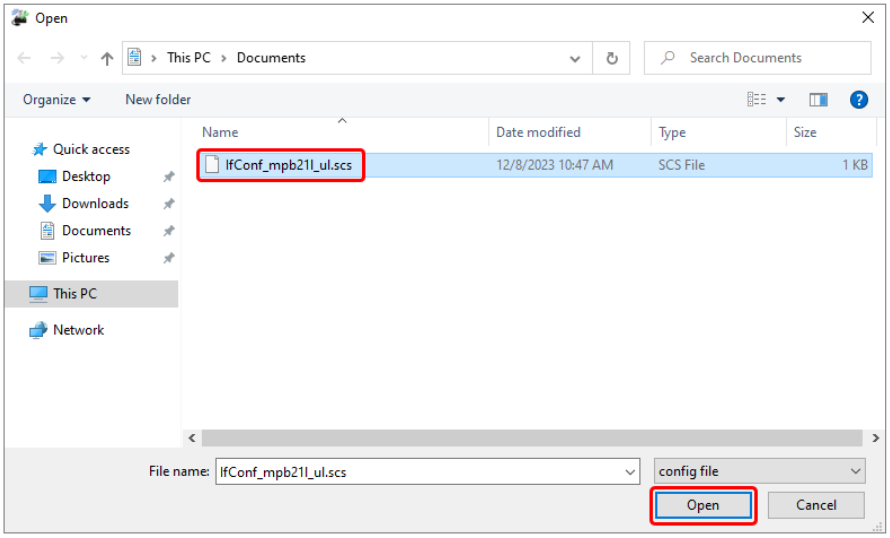


Figure 3-15 [Open] Dialog

3. The contents of the file (*.scs, *.scsw) are displayed.
Click the [Apply to printer] button to write the communication settings to the printer.

Caution

◆ When iSerialNumber is changed in the state that the connection method with the printer is USB communication, the assignment of the port to which the printer is connected may be changed.

Reference

◆ The setting will not be changed if the input item in the screen is blank.

◆ When the communication settings are written in the printer, the printer is reset to enable the settings.