



# SII Communication Setting Utility for Windows User's Guide

Rev.05

[Products]

MP-B20 Series

Seiko Instruments Inc.

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# Chapter 1 Introduction

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This manual describes the specifications and notes for "SII Communications Setting Utility for Windows" (hereinafter referred to as "the software") for MP-B20 Series, provided by Seiko Instruments Inc. (hereinafter referred to as "SII").

## 1.1 Overview

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This software is to change the communication settings of the printer.

With this software, the following communication settings can be changed:

- Bluetooth communication settings
- USB communication settings

### Reference

- Bluetooth connection is not supported by Windows Server 2019, 2016 or 2012.

## 1.2 Notation in This Manual

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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

### 1.2.1 Terms

Name	Description
Printer	MP-B20 Series printer made by SII
Printer driver	"SII Printer Driver for Windows" for MP-B20 Series
iSerialNumber	Defined in iSerialNumber field of USB device descriptor

The symbols used in this manual are described below.

### 1.2.2 Symbols

The symbols used in this manual are described below.

#### Caution

- ◆ Notes and limitations are described.

#### Reference

- Supplemental information and related matters are described.

### 1.2.3 Operating System Abbreviations

The operating system abbreviations used in this manual are listed below.

When an individual description is necessary, the description is written in parentheses behind the abbreviation.

- |                                   |   |                                  |
|-----------------------------------|---|----------------------------------|
| • General Microsoft® Windows®     | : | Windows                          |
| • Microsoft® Windows® 11          | : | Windows 11                       |
| • Microsoft® Windows® 10          | : | Windows 10                       |
| • Microsoft® Windows Server® 2019 | : | Windows 10 (Windows Server 2019) |
| • Microsoft® Windows Server® 2016 | : | Windows 10 (Windows Server 2016) |
| • Microsoft® Windows® 8.1         | : | Windows 8.1                      |
| • Microsoft® Windows Server® 2012 | : | Windows Server 2012              |

## 1.3 Operating Environment

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The operating environment of the software is described.

### 1.3.1 System Environment

Item	Specifications
Operating Systems	Windows 11 (64 bits) Windows 10 (32 bits and 64 bits) Windows Server 2019 (64 bits) Windows Server 2016 (64 bits) Windows 8.1 (32 bits and 64 bits) Windows Server 2012 (64 bits)
Printer driver	"SII Printer Driver for Windows" for MP-B20 Series
.NET Framework	.NET Framework 3.5 or later

#### Caution

- ◆ The software operates using a printer driver. The printer driver is required to be installed on the computer for using this software.

### 1.3.2 Printer

Printer	Interface
MP-B20 Series	Bluetooth
	USB

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# Chapter 2 Installation

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## 2.1 Installation

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The software is installed at the same time with the printer driver.

Download the printer driver from the SII's Web page and install it.

For the installation procedure of the printer driver, see the installation part of "SII Printer Driver for Windows User's Guide" for MP-B20 Series.

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# Chapter 3 Communication Settings

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This chapter describes the startup and the setting screen of the software.

## 3.1 Startup

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The startup procedure of the software is described.

- **For Windows 11 and Windows 10**

Select [Communication Utility] in [SII MP-B20 Series Printer] from the Start menu, and then the software starts up.

- **For Windows 8.1 and Windows Server 2012**

Click the down arrow displayed in the bottom left of the tile menu of the Start screen.

Click [Communication Utility] in [SII MP-B20 Series Printer] from [Apps] view, and then the software starts up.



## 3.2 Screen Layout

The screen layout of the software is described.

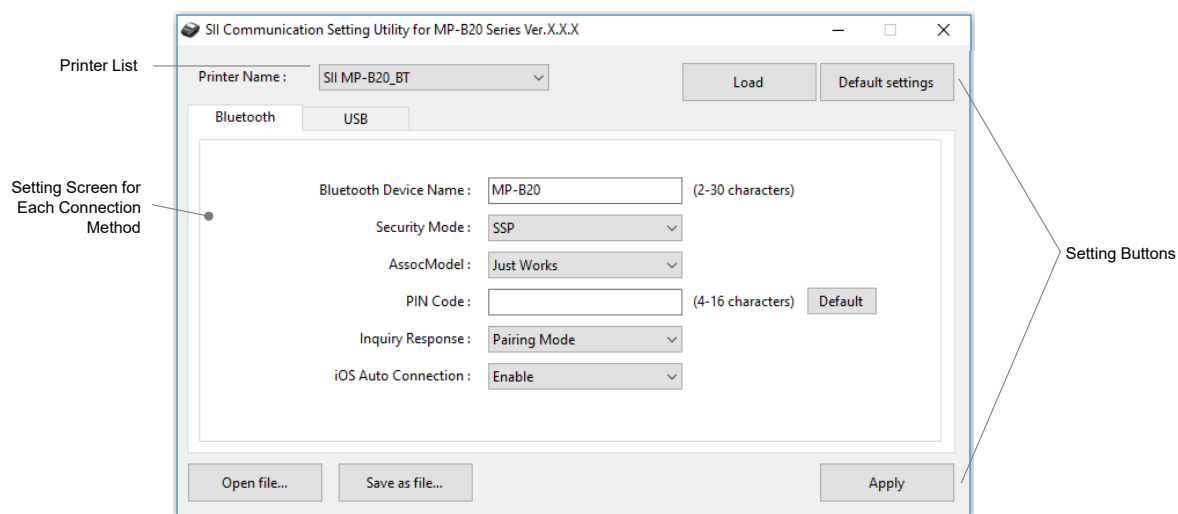


Figure 3-1 Whole view

### 3.2.1 Printer List

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

Name	Description
Printer Name	Displays the drop down list of the printer drivers already installed.

### 3.2.2 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 selected in [Printer Name].
Default settings	Displays the default settings. The setting currently displayed will be overwritten with the default setting.
Open file...	Loads and displays the saved file (*.scs).
Save as file...	Saves the contents displayed in the setting screen for each connection method as a file (*.scs).
Apply	Writes the contents displayed in the setting screen for each connection method to the printer.

The default settings displayed in the setting screen by clicking the [Default settings] button are shown below.

Connection Method	Default Settings
Bluetooth	Bluetooth Device Name: MP-B20 Security Mode: SSP AssocModel: Just Works PIN Code: (blank)*1 Inquiry Response: Pairing Mode iOS Auto Connection: Enable
USB	iSerialNumber settings: Undefined

\*1: PIN Code is not changed by the [Default settings] button. In order to change PIN Code to the default setting, use the [Default] button in the setting screen for Bluetooth communication. See "Bluetooth communication setting" of "3.2.3 Setting Screen for Each Connection Method" for details.

### 3.2.3 Setting Screen for Each Connection Method

The communication settings of each connection method can be performed.

#### Bluetooth communication settings

Select the [Bluetooth] tab to display the following screen.

Figure 3-2 [Bluetooth] Tab Screen

Name	Description
Bluetooth Device Name	Enter the Bluetooth device name.*1 2 to 30 characters can be input. Ignored when the text box is blank. Default setting is 'MP-B20'.
Security Mode	Select for Security Mode. SSP*2(Default): The printer is connected to the Bluetooth host by SSP (Mode4). When selecting SSP, but the Bluetooth host does not support SSP, the printer is connected by using PIN Code. Normally use this function by SSP. PIN: The printer is connected to the Bluetooth host by PIN Code (Mode2).

Name	Description
AssocModel	<p>Select for Association Model. *3</p> <p>Just Works (Default): The printer performs pairing using Just Works method.</p> <p>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.</p>
PIN Code	<p>Enter PIN Code. *1</p> <p>4 to 16 characters can be input. Ignored when the text box is blank. PIN code is not loaded even when [Load] button is clicked.</p>
Default	'0000' is input in [PIN Code].
Inquiry Response	<p>Select for Inquiry Response.</p> <p>Pairing Mode (Default): The printer responds to the search from the Bluetooth host only in 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. The POWER LED blinks 5 times in green for 1 second, and the printer becomes pairing mode for about 60 seconds.</p> <p>Always: The printer always responds to the search from the Bluetooth host.</p>
iOS Auto Connection	<p>Select for iOS Auto Connection.</p> <p>Disable: iOS Auto Connection is disabled.</p> <p>Enable (Default): When the iOS device connection is disconnected, the printer tries to reconnect with the iOS device last connected.</p>

\*1: The characters available for setting are as follows:

'0' to '9', 'A' to 'Z', 'a' to 'z', '+', '-', '=', '#', '\*', and ' ' (Space: 20H)

\*2: Bluetooth devices which are Ver.2.1 or later support SSP.

\*3: It can be set at the printer's firmware version 1.04 or later.

## **USB communication settings**

Select the [USB] tab to display the following screen.

The screenshot shows a settings window with two tabs: 'Bluetooth' and 'USB'. The 'USB' tab is selected. Inside the window, there is a section titled 'iSerialNumber settings'. It contains four radio button options:

- ☒ Use current iSerialNumber : Undefined (Disabled)
- ☐ Use printer serial number : 1P0000001B
- ☐ [Text input field] (1-10 characters)  
( '0'-'9', 'A'-'Z', 'a'-'z' )
- ☐ Undefined (Clear current iSerialNumber)

Figure 3-3 [USB] Tab Screen

Name	Description
iSerialNumber settings	<p>Use current iSerialNumber:  Uses the USB iSerialNumber currently set to the printer.  iSerialNumber is not set at the shipping.</p> <p>Use printer serial number:  Sets the printer's serial number to iSerialNumber.</p> <p>Input text box:  Sets a character string to iSerialNumber.*1  1 to 10 characters can be input for the string.</p> <p>Undefined:  Clears the current USB iSerialNumber which is set to the printer.</p>

\*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 printer needs to be restarted. When restarting the printer, the printer driver is automatically installed as a new printer. To perform the communication settings of the newly connected printer, restart the software.

## 3.3 Setting Method

The setting method of the software is described.

### 3.3.1 Confirm Current Communication Settings

The procedure to confirm the current communication settings of the printer is described below.

1. Make sure that the connected printer can communicate.
2. Start the software in the procedure of "3.1 Startup".  
When only one printer is installed, the communication setting is loaded automatically at the software startup. Proceed to step 4.
3. Select the printer from [Printer Name], and click [Load] button.

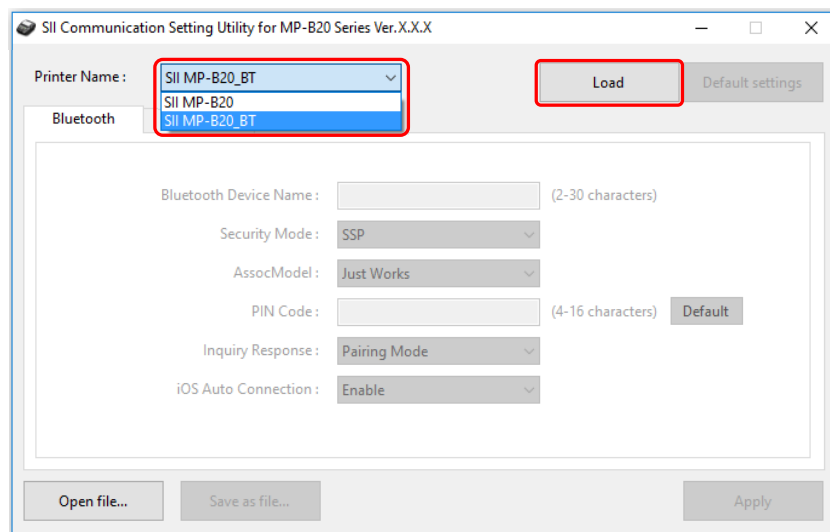


Figure 3-4 Printer Selecting Screen

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

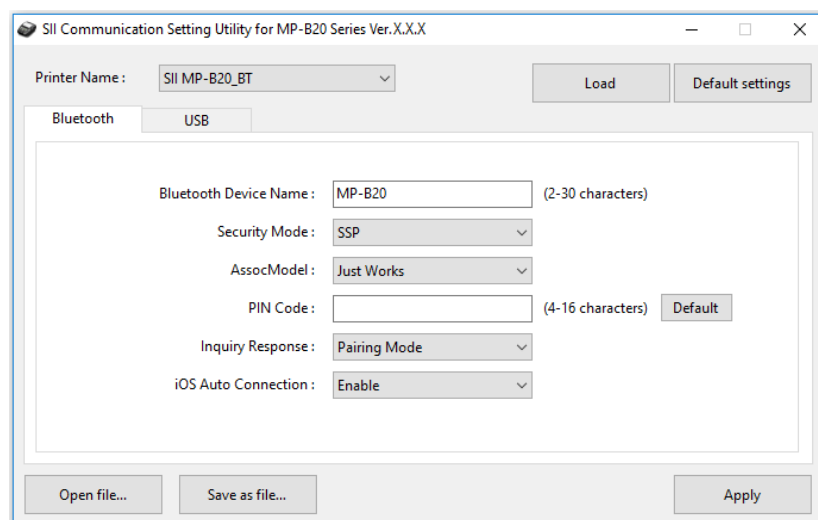


Figure 3-5 Communication Setting Screen

## Caution

- ◆ The Bluetooth PIN code is not loaded even when [Load] button is clicked.
- ◆ To confirm the communication settings of the printer newly connected after starting the software, restart the software.

### 3.3.2 Change Communication Settings

The procedure to change the communication settings of the printer is described below.

1. Follow the steps of "3.3.1 Confirm Current Communication Setting" to display the current communication settings of the connected printer.
2. Change the contents of the communication settings, and then click [Apply]. The communication settings are written to the printer.

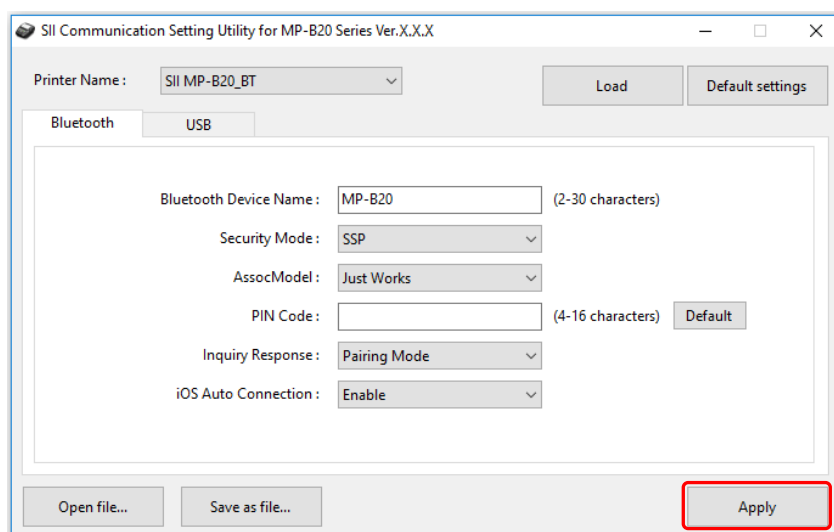


Figure 3-6 Change Communication Settings

## Caution

- ◆ When iSerialNumber is changed in the state that the connection method with the printer is USB communication, the printer needs to be restarted. When restarting the printer, the printer driver is automatically installed as a new printer. To perform the communication settings of the newly connected printer, restart the software.
- ◆ When setting up multiple printers continuously while the software is running, connect the printers to the same port.

## Reference

- The setting will not be changed when the input item in the screen is blank.

### 3.3.3 Restore Communication Settings to Default Settings

The procedure to restore the printer communication settings to the default settings is described below.

1. Click the [Default Settings] button to display the default settings.

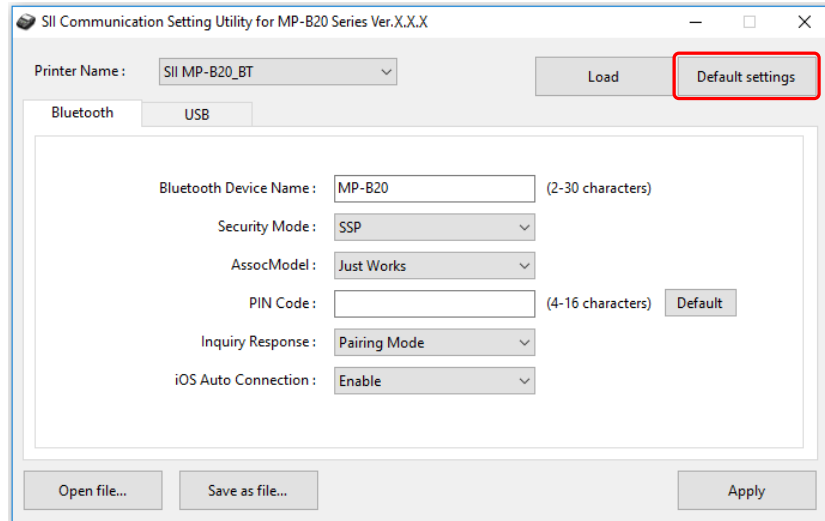


Figure 3-7 Default Settings

2. Click the [Apply] button to write the communication settings to the printer.  
See the "3.2 Screen Layout -Setting Buttons" for details of the default settings.

### 3.3.4 Save Communication Settings to File

The procedure to save the printer communication settings as a file (\*.scs) is described below.

1. Click the [Load] button to display the printer communication settings.
2. Change the communication settings when necessary.
3. Click the [Save as file...] button.

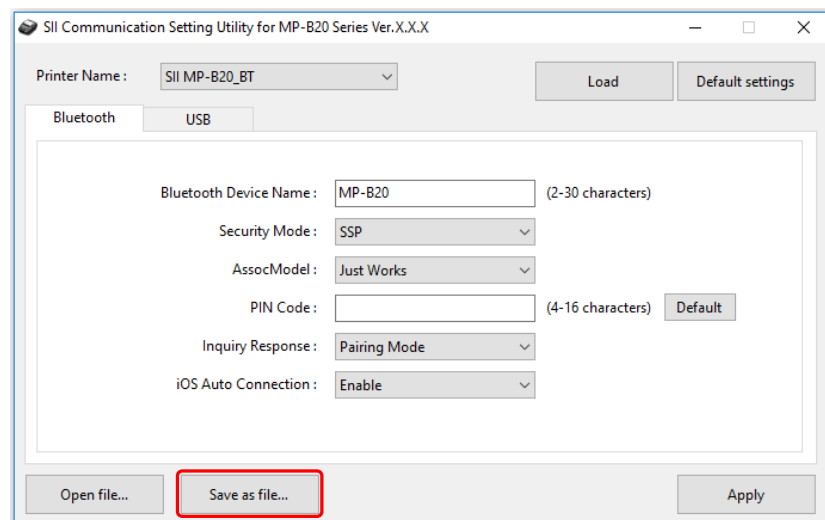


Figure 3-8 Save Communication Settings

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

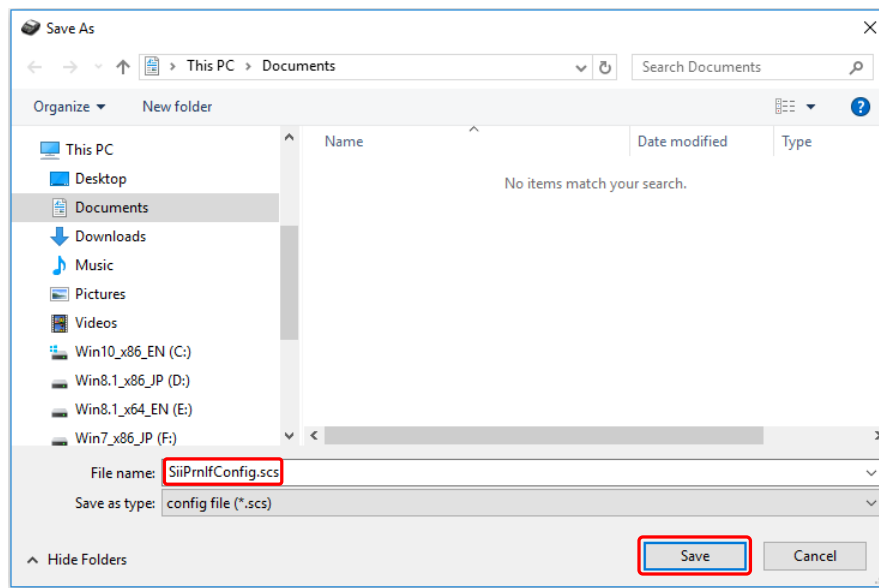


Figure 3-9 [Save as file...] Dialog

## Caution

- ◆ The setting of [PIN Code] in the [Bluetooth] tab will not be saved in the file.

## Reference

- The setting will not be changed when the input item in the screen is blank.



### 3.3.5 Write File Settings to the Printer

The procedure to write the contents of the file (\*.scs) saved at "3.3.4 Save Communication Settings to File" to the printer is described below.

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

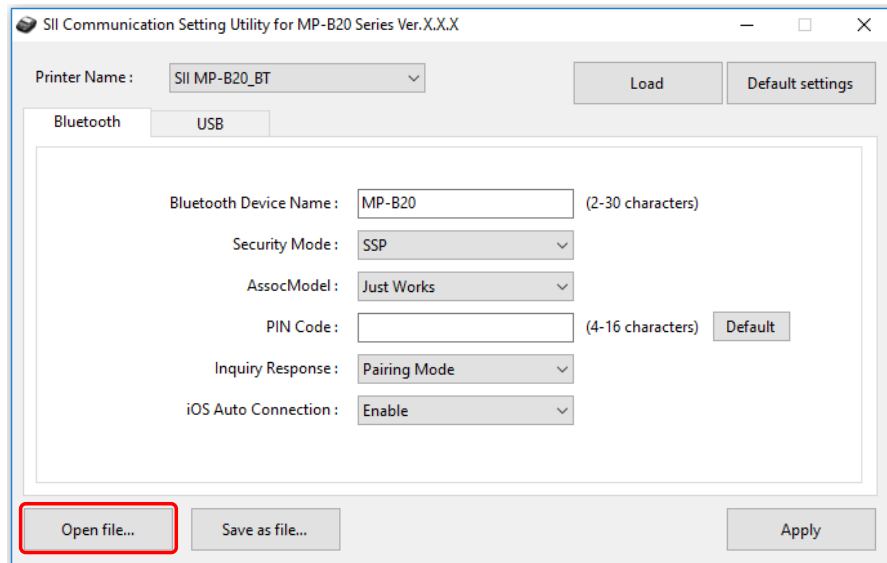


Figure 3-10 Open File (\*.scs)

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

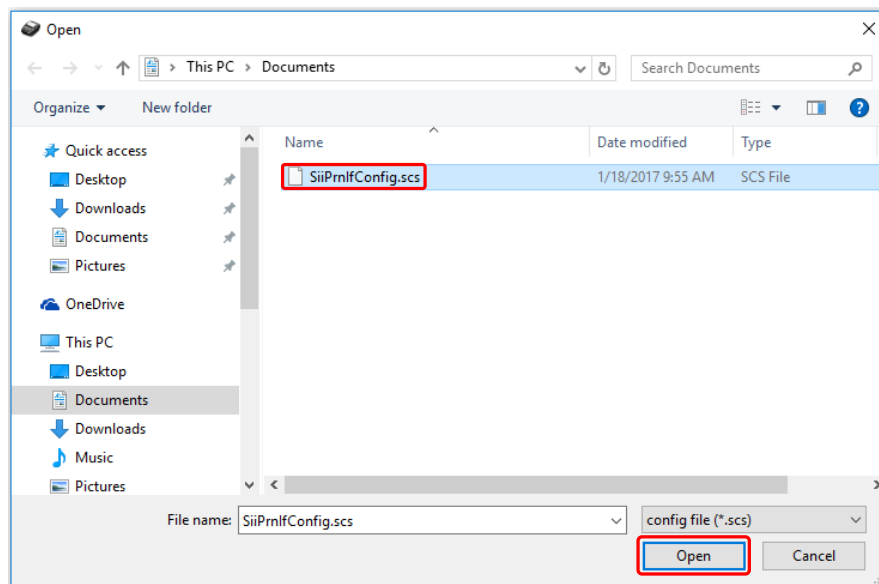


Figure 3-11 [Open] Dialog

3. The contents of the file (\*.scs) are displayed.  
Click the [Apply] 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 printer needs to be restarted. When restarting the printer, the printer driver is automatically installed as a new printer. To perform the communication settings of the newly connected printer, restart the software.
- ◆ When setting up multiple printers continuously while the software is running, connect the printers to the same port.

## Reference

- The setting will not be changed when the input item in the screen is blank.



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(Specifications are subject to change without notice.)