

BIXOLON SAMSUNG
Windows Driver
User's Manual
Ver. 3.0.2

Printer Model

STP-103

Contents

1. Foreword ...	2
2. Operating Environment ...	2
3. Installing the Driver ...	3
3.1 Printer Settings ...	3
4. Main Specifications ...	4
4.1 Printer Fonts ...	4
4.2 Special Functions ...	5
4.3 Resolutions ...	6
4.4 Paper Sizes ...	6
4.5 Printing Bar Codes ...	7
5. Controlling the Printer from VB ...	8
5.1 Selecting the Printer Driver ...	9
5.2 Printing Text ...	10
5.3 Bar Code Printing ...	11
5.4 Opening the Cash Drawer ...	12
6. Using the STP-103 Printer from WordPad...13	
6.1 WordPad Environment ...	13
6.2 Printing Text ...	13
6.3 Bar Code Printing ...	14
6.5 Opening the Cash Drawer ...	15
7. Using the STP-103 Printer Properties ...	16
7.1 Additional Commands ...	16

1. Foreword

This manual explains how to install and use Windows printer drivers for SAMSUNG STP-103 printers. These drivers make it possible for Windows applications to print to SAMSUNG STP-103 printers. Please read this manual carefully so that you can take full advantage of the driver's capabilities.

2. Operating Environment

The SAMSUNG STP-103 printer drivers can run on any of the following operating systems.

- Microsoft Windows 95
- Microsoft Windows 98
- Microsoft Windows ME
- Microsoft Windows NT 4.0
- Microsoft Windows 2000
- Microsoft Windows XP
- Microsoft Windows 2003 Server

3. Installing the Driver

3.1 Printer Settings

This section is explained the way of following Printer Settings.

- Printer Resolution
- Paper Size
- Orientation

In Windows 95/98/ME, this can be set in the printer's "Properties" dialog.

In Windows NT4.0, it can be set in the printer's "Document Default" dialog.

In Windows 2000/XP/2003 Server, it can be set in the printer's "Printing Preferences" dialog.

4. Main Specifications

4.1 Printer Fonts

These drivers support use of printer fonts as well as Windows fonts. Use of printer fonts permits faster printing. Available printer fonts are listed below.

“Built-in fonts of a printer” can be specified with the application programs. The “built-in fonts” are as follows.

- Printer Font (type A, Large)
- Printer Font (type B, Small)

The font names what the user can choose in to the application are as follows.

2 types of character-height can be chosen in each font.

Two kinds of the FonAXxX [Ext.] font and the FonAXxX. The character code of 128 bytes of 80H - FFH varies in the difference in these printer fonts. A **FonAXxX font** supports an Euro character code(Code Page 16 : 1252). And, a **FonAXxX [Ext.] font** supports IBM expansion character code(Code Page 0 : 437).

Printer Fonts			Character size(dot)	Sizes (point)
FontA1x1	FontA1x1[Ext.]	FontA1x1[255]	FontA1x1(12x24)	8.5
FontA1x2	FontA1x2[Ext.]	FontA1x2[255]	FontA1x2(12x48)	17
FontA2x1	FontA2x1[Ext.]	FontA2x1[255]	FontA2x1(24x24)	8.5
FontA2x2	FontA2x2[Ext.]	FontA2x2[255]	FontA2x2(24x48)	17
FontB1x1	FontB1x1[Ext.]	FontB1x1[255]	FontB1x1(9x17)	8.5
FontB1x2	FontB1x2[Ext.]	FontB1x2[255]	FontB1x2(9x34)	17
FontB2x1	FontB2x1[Ext.]	FontB2x1[255]	FontB2x1(18x17)	8.5
FontB2x2	FontB2x2[Ext.]	FontB2x2[255]	FontB2x2(18x34)	17

Printer font for special function	Function	Size(pont/dot)
FontControl	Open Drawer 1/2 Justification(Left/Center/Right) Output HT,Output LF, Output CR Barcode printing Print NV bit image	(8.5 / 12x24)

4.2 Special Functions

The STP-103 Printer can be used to execute a variety of special non-printing functions, as indicated in the table below.

You can execute these functions by selecting the printer's special "FontControl" font and then sending the appropriate character code to the driver. (Note that you cannot use the "FontControl" font to print normal characters.)

Character	Special Function	Note
5	HT is output	
6	LF is output	
7	CR is output	
a	Open Drawer 2 (50ms drive pulse width)	
b	Open Drawer 2 (100ms drive pulse width)	
c	Open Drawer 2 (150ms drive pulse width)	
d	Open Drawer 2 (200ms drive pulse width)	
e	Open Drawer 2 (250ms drive pulse width)	
p	HRI characters are not added to the bar code	
q	HRI characters are added at the top of the bar code using Font A	
r	HRI characters are added at the bottom of the bar code using Font A	
s	HRI characters are added at the top of the bar code using Font B	
t	HRI characters are added at the bottom of the bar code using Font B	
w	Text is aligned left	
x	Text is centered	
y	Text is aligned right	
A	Open Drawer 1 (50ms drive pulse width)	
B	Open Drawer 1 (100ms drive pulse width)	
C	Open Drawer 1 (150ms drive pulse width)	
D	Open Drawer 1 (200ms drive pulse width)	
E	Open Drawer 1 (250ms drive pulse width)	
G	NV bit image No 1 is printed in the Normal mode	
H	NV bit image No 2 is printed in the Normal mode	
I	NV bit image No 3 is printed in the Normal mode	
J	NV bit image No 4 is printed in the Normal mode	
K	NV bit image No 5 is printed in the Normal mode	
[NV bit image No 1 is printed in the Double Height Double Width mode	
]	NV bit image No 2 is printed in the Double Height Double Width mode	
^	NV bit image No 3 is printed in the Double Height Double Width mode	
_	NV bit image No 4 is printed in the Double Height Double Width mode	
`	NV bit image No 5 is printed in the Double Height Double Width mode	

4.3 Resolutions

The resolution settings supported by STP-103 printer are as follows

- 203 × 203

4.4 Paper Sizes

The paper sizes supported by STP-103 printer are as follows.

- Receipt length 58 × 3276 mm
- A4 length 58 × 297 mm
- Custom Size (Windows 9x support)

The following table shows the recommended margins for STP-103 printer. Refer to this table when setting margins from your printing applications.

Printer	Margins				Printer Area
	Left[mm]	Right[mm]	Top[mm]	Bottom[mm]	Width[mm]
STP-103	0	0	0	0	58

4.5 Printing Bar Codes

The paper sizes supported by STP-103 printer are as follows.

In this driver, a printer font for printing bar code is also provides. Select the printer font corresponding to the bar code type to be printed, then simply enter the code to print bar code. Input codes are displayed in text format. Printing of bar codes with HRI characters included can also be done.

When choosing printer font Code128, the code set selection character (which is “{A”, “{B”, “{C}” must be always specified at the head of the text.
For example, specify “{B1234”, when printing letter “1234”.

Printer Font Name	Size	Supported Characters
Codabar	20/40/60/80	Numeric: 0~9 Symbols: \$, +, -, ., /, : Letters: A~D
Code39	20/40/60/80	Numeric: 0~9 Symbols: \$, +, -, ., / Letters: A~Z
JAN13(EAN)	20/40/60/80	Numeric: 0~9
JAN8(EAN)	20/40/60/80	Numeric: 0~9
ITF	20/40/60/80	Numeric: 0~9
UPC-A	20/40/60/80	Numeric: 0~9
Code93	20/40/60/80	ASCII CODE: 0~127
Code128	20/40/60/80	ASCII CODE: 0~127

5. Controlling the Printer from VB

This section shows how you can control the STP-103 Printer using Visual Basic (Version 6.0). Note that the STP-103 Printer drivers include sample Visual Basic programs that provide additional examples.

5.1 Selecting the Printer Driver

The following code establishes the specified printer driver as your "default printer."

◆ VISUAL BASIC

```
For Each prnPrinter In Printers
    If prnPrinter.DeviceName = "SAMSUNG STP-103" Then
        Set Printer = prnPrinter
        Exit For
    End If
Next
```

5.2 Printing Text

The following code prints a text string using a Windows font, and then prints another text string using a printer font. Each string gives the name and size of the font being used.

◆ VISUAL BASIC

```
'Print in Windows font
Printer.FontSize = 9
Printer.FontName = "Arial"
Printer.Print "Arial"

'Print in printer font
Printer.FontSize = 8.5
Printer.FontName = "FontA1x1"
Printer.Print "FontA1x1"
Printer.EndDoc
```

5.3 Bar Code Printing

The following code causes the printer to print Bar Code.

◆ VISUAL BASIC

```
'Print Bar Code.  
Printer.FontSize = 18  
Printer.FontName = "JAN8(EAN)"  
Printer.Print "1234567".  
Printer.EndDoc
```

5.4 Opening the Cash Drawer

The next example shows how to open the desired cash drawer at the desired speed.

◆ VISUAL BASIC

```
'Set up the control font.  
Printer.FontSize = 8.5  
Printer.FontName = "FontControl"  
  
Printer.Print "A"  
'Use special-function character to open the cash drawer.  
'A: Open drawer 1 at 50ms  
'B: Open drawer 1 at 100ms  
'C: Open drawer 1 at 150ms  
'D: Open drawer 1 at 200ms  
'E: Open drawer 1 at 250ms  
'a: Open drawer 2 at 50ms  
'b: Open drawer 2 at 100ms  
'c: Open drawer 2 at 150ms  
'd: Open drawer 2 at 200ms  
'e: Open drawer 2 at 250ms  
Printer.EndDoc
```

6. Using the STP-103 Printer from WordPad

6.1 WordPad Environment

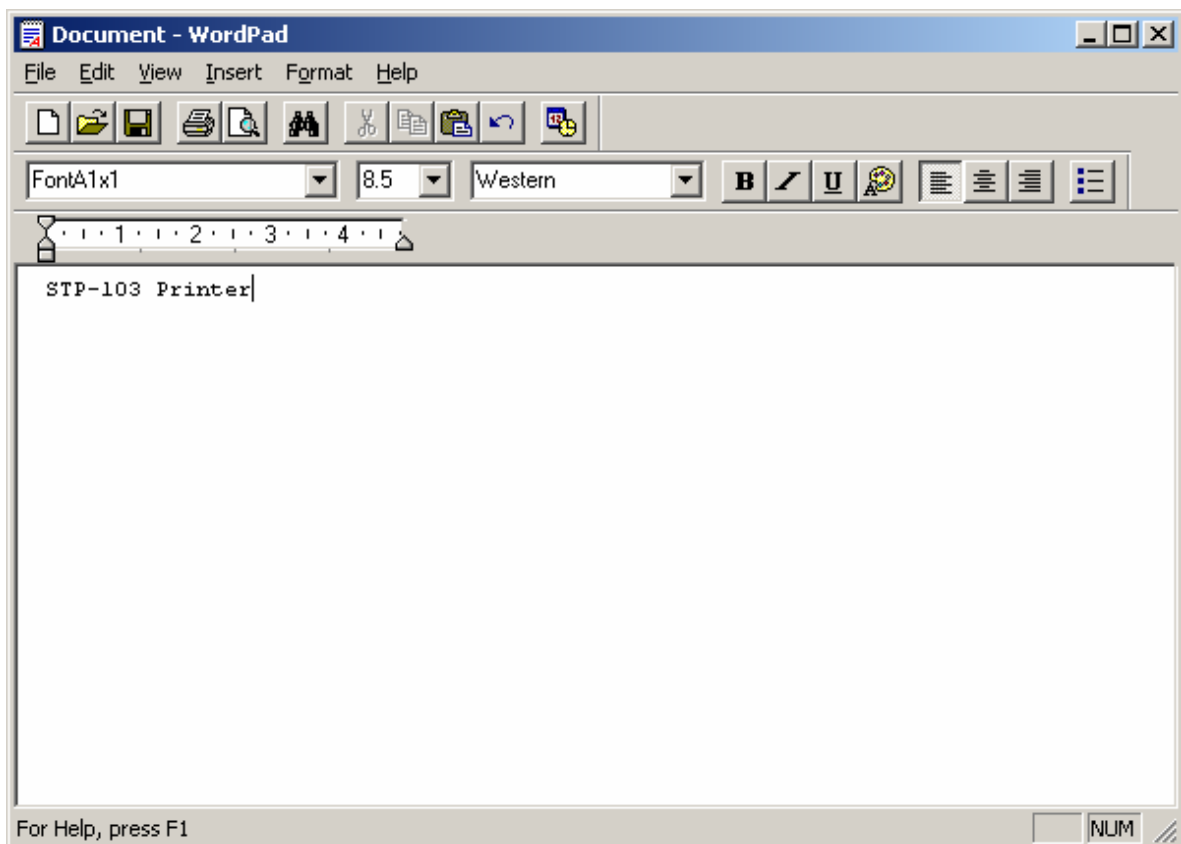
WordPad is more adequate to test printer than Microsoft Word. Make it sure that STP-103 has been chosen as default printer and then go further with WordPad like below.

Start up WordPad, and enter appropriate settings for the follows.

- Size [\[Refer to Section 4.5, "Paper Sizes" \]](#)
- Resolution [\[Refer to Section 4.4, "Resolutions" \]](#)
- Margins [\[Refer to Section 4.5, "Paper Sizes" \]](#)

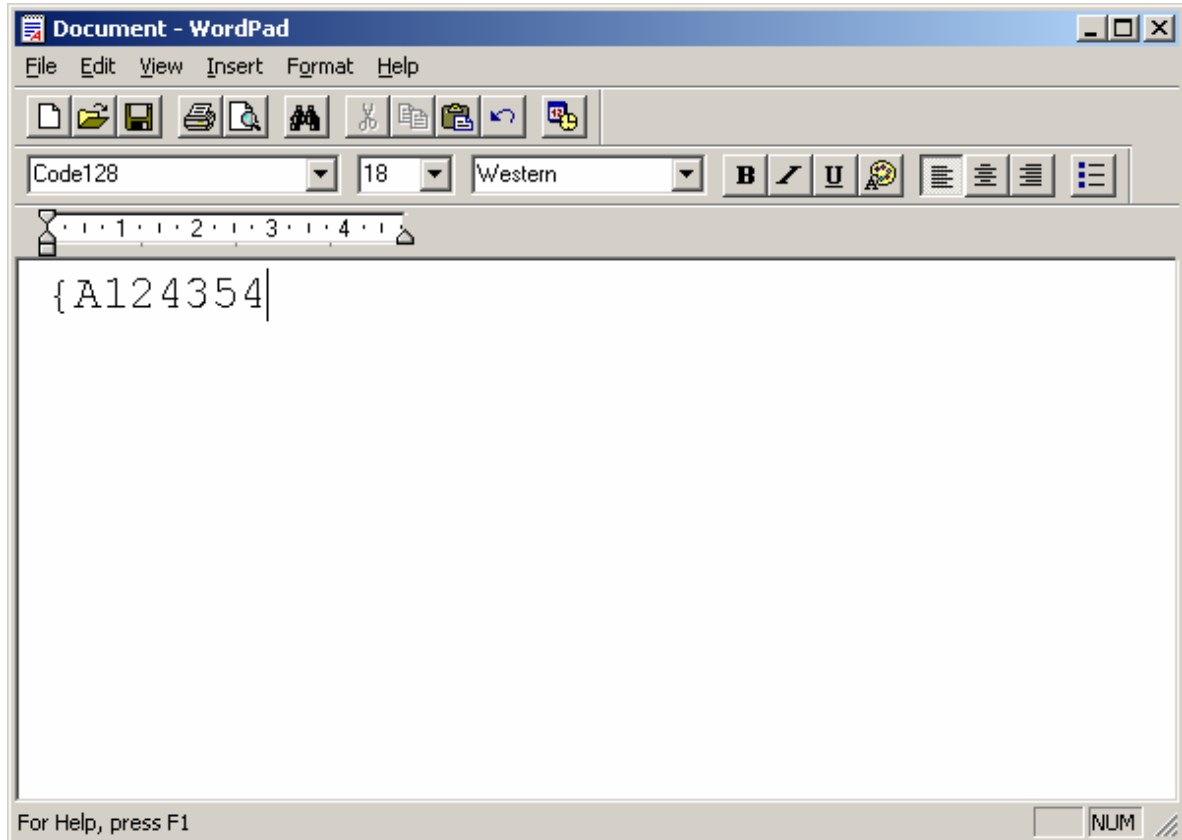
6.2 Printing Text

Use the following procedure to generate a printout from WordPad.



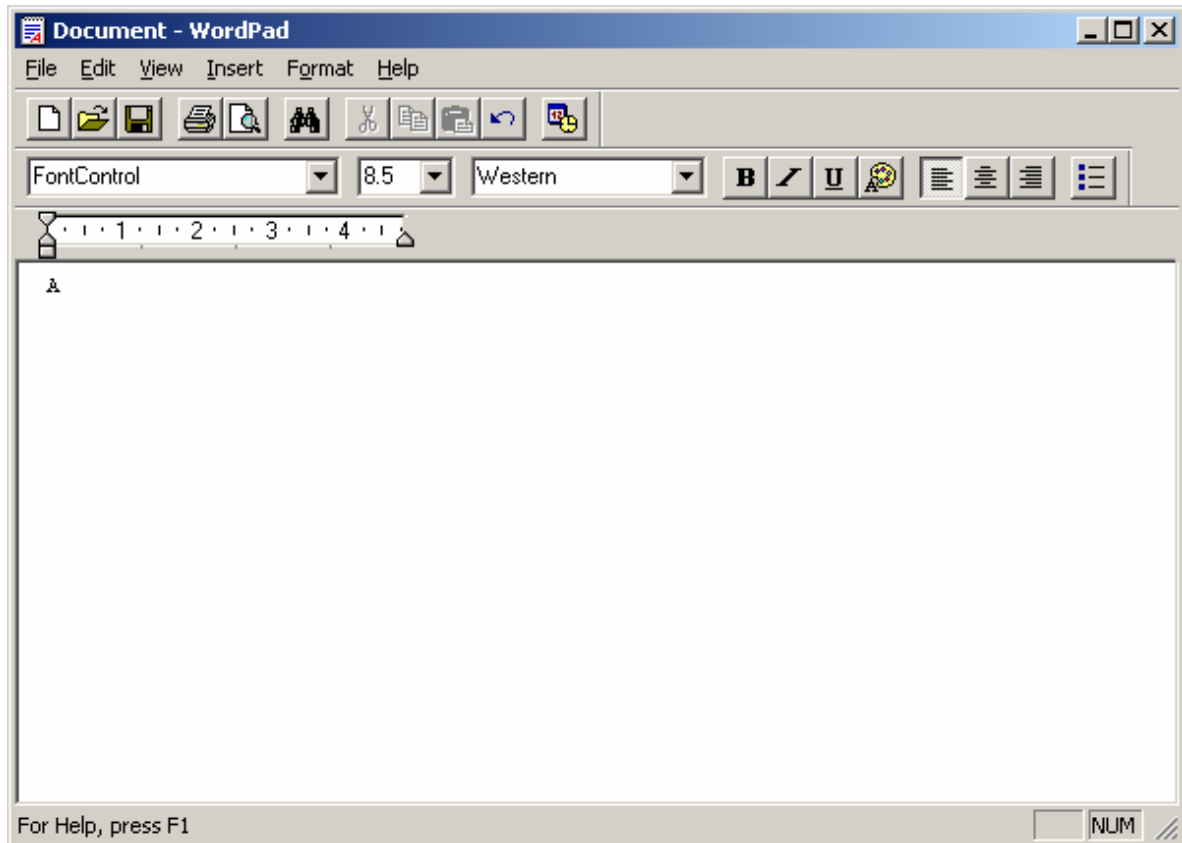
1. Select the font you wish to use from the font list.
 2. Select the font size you wish use from the font-size list.
 3. Type in some text into the WordPad text-input area.
 4. Open the File menu, and click on Print.
- For fastest printing, select a printer font form the font list.

6.3 Bar Code printing



1. Select the "Code128" font from the font list.
2. Set the font size to 18
3. Type in an "{A124354"
4. Open the File menu, and click on Print.

6.4 Opening the Cash Drawer

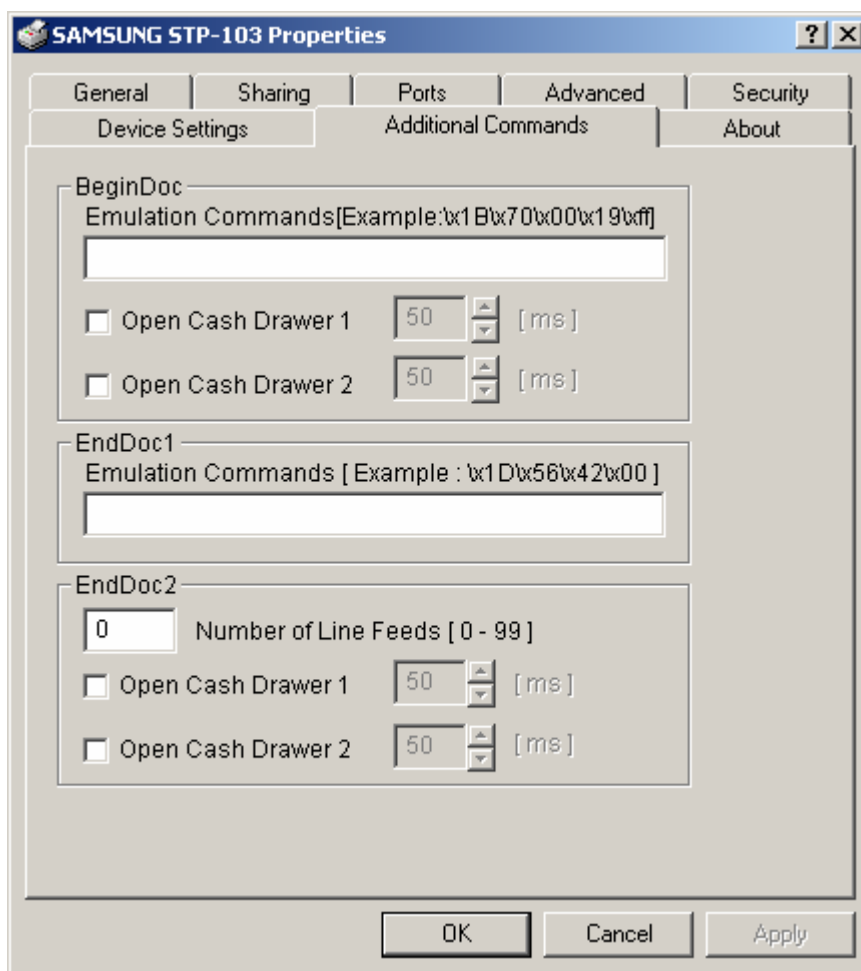


1. Select the "FontControl" font from the font list.
2. Set the font size to 8.5
3. Type an "A" into the WordPad text-input area.
4. Open the File menu, and click on Print.

Clicking on Print will cause cash drawer #1 to open at a drive speed of 50ms. By changing the character that you input at Step 3, you can select a different drive speed or open the other drawer. Refer to Section 4.2, "Special Functions," for a listing of characters and their functions.

7. Using the STP-103 Printer Properties

7.1 Additional Commands



[1] BeginDoc Field

This is where you input the command that will be done before the document is printed.
ex) \x0A [Feeding Command]

[2] EndDoc1 Field

This is where you input the command that will be done after the document is printed.

[3] EndDoc2 Field

This is where you input the number of line feeds that will be done after a document is printed.

-
- [4] Open Cash Drawer Checkbox
You can fire cash drawer 1 or 2.