TSC Auto ID Technology Co., Ltd.
Corporate Headquarters
9F., No.95, Minquan Rd., Xindian Dist.,
New Taipei City 23141, Taiwan
TEL: +886-2-2218-6789 FAX: +886-2-2218-5678
Web site: www.tscprinters.com

Li Ze Plant
No.35, Sec. 2, Ligong 1st Rd., Wujie Township,
Yilan County 26841, Taiwan
TEL: +886-3-9906677 FAX: +886-3-9905577

Instructions for TSC iOS Library Functions

1. openport(a)

Description: Start the printer spool.

Parameter:

a: String; the IP Address, for example:“192.168.1.50”

2. openportMFI(a)

Description: Start the printer spool with Apple MFi Bluetooth

Parameter:

a: String; the Bluetooth module name “com.issc.datapath”

2. closeport()

Description: Close Windows printer spool

Parameter: None

3. setupForWidth(a,b,c,d,e,f,g)

Description: Set up label width, label height, print speed, print density, sensor type, gap/black mark vertical distance and gap/black mark offset distance

Parameter:

a: String, set up label width; unit: mm

b: String, set up label height; unit: mm

c: String, set up print speed, (selectable print speeds depend on different printer models)

1.0: Set print speed at 1.0"/sec
1.5: Set print speed at 1.5"/sec
2.0: Set print speed at 2.0"/sec
3.0: Set print speed at 3.0"/sec
4.0: Set print speed at 4.0"/sec
6.0: Set print speed at 6.0"/sec
8.0: Set print speed at 8.0"/sec
10.0: Set print speed at 10.0"/sec
12.0: Set print speed at 12.0"/sec
14.0: Set print speed at 14.0”/sec

d: String, set up print density

0~15，0: Minimum darkness, 15: Maximum darkness

e: String, sets up the sensor type for the media

0: Gap sensor
1: Black mark sensor

f: String, set up vertical gap height of the gap/black mark. Unit: mm

g: String, set up offset distance of the gap/black mark. Unit: mm.

4. clearBuffer()

Description: Clear the printer image buffer
Parameter: None

5. barcodeFromX(a,b,c,d,e,f,g,h,I)

Description: Use built-in bar code formats to print
Parameter:

a: String; the starting point of the bar code along the X direction, given in dot (203 DPI: 1 dot=1/8 mm; 300 DPI: 1dot=1/12 mm)

b: String; the starting point of the bar code along the Y direction, given in dots (203 DPI: 1 dot=1/8 mm; 300 DPI: 1 dot=1/12 mm)

c: String
128: Code 128, switching code subset A, B, C automatically
128M: Code 128, switching code subset A, B, C manually.
EAN128: Code 128, switching code subset A, B, C automatically
25: Interleaved 2 of 5
25C: Interleaved 2 of 5 with check digits
39: Code 39
39C: Code 39 with check digits
93: Code 93
EAN13: EAN 13
EAN13+2: EAN 13 with 2 digits add-on
EAN13+5: EAN 13 with 5 digits add-on
EAN8: EAN 8
EAN8+2: EAN 8 with 2 digits add-on
EAN8+5 EAN 8 with 5 digits add-on
CODA: Codabar
POST: Postnet
UPCA: UPC-A
UPCA+2: UPC-A with 2 digits add-on
UPCA+5: UPC-A with 5 digits add-on
UPCE: UPC-E
UPCE+2: UPC-E with 2 digits add-on
UPCE+5: UPC-E with 5 digits add-on

d: String; set up bar code height, given in dots

e: String, set up whether to print human recognizable interpretation (text) or not.
0: prints no interpretation
1: prints interpretation

f: String; set up rotation
0: rotates 0 degree
90: rotates 90 degrees
180: rotates180 degrees
270: rotates 270 degrees

g: String; set up narrow bar ratio, refer to TSPL user's manual

h: String; sets up wide bar ratio, refer to TSPL user's manual
I: String; bar code content

6. printerfontFromX(a,b,c,d,e,f,g)

Description: Use printer built-in fonts to print
Parameter:

a: String; the starting point of text (character string) along the X direction, given in dots
(203 DPI: 1 dot=1/8 mm; 300 DPI: 1 dot=1/12 mm)
b: String; the starting point of text (character string) along the Y direction, given in dots
(203 DPI: 1 dot=1/8 mm; 300 DPI: 1 dot=1/12 mm)
c: String; built-in font type name, totally 12 different sizes of fonts
1: 8*/12 dots
2: 12*20 dots
3: 16*24 dots
4: 24*32 dots
5: 32*48 dots
TST24.BF2: Traditional Chinese 24*24
TST16.BF2: Traditional Chinese 16*16
TTT24.BF2: Traditional Chinese 24*24
TSS24.BF2: Simplified Chinese 24*24
TSS16.BF2: Simplified Chinese 16*16
K: Kanji or Korean font 24*24
L: Kanji or Korean font 16*16
d: String; set up the rotation of the text (character string)
0: rotates 0 degree
90: rotate 90 degrees
180: rotate 180 degrees
270: rotate 270 degrees
e: String; set up the magnification rate of text (character string) along the X direction, range: 1~8
f: String; set up the magnification rate of text (character string) along the Y direction, range: 1~8
g: String; prints the content of text (character string)

7. sendcommand(a)

Description: Sends built-in commands to the bar code printer
Parameter:

a: String; refer to TSPL programming manual commands for details

8. printLabelWithNumberOfSets(a,b)

Description: Print label content
Parameter:

a: String; set up the number of label sets

b: String, sets up the number of print copies

9. formfeed()

Description: Skip to next top of form. This function should be used after setup function

Parameter: None

10. windowsfontFromX(a,b,c,d,e,f,g,h)

Description: Use Windows font to print text

Parameter:

a: Integer, the starting point of the text along the X direction, given in dots

b: Integer, the starting point of the text along the Y direction, given in dots

c: Integer, the font height, given in points.

d:Integer, rotation in counter clockwise direction

0 -> 0 degree

90-> 90 degree

180-> 180 degree

270-> 270 degree

e: Integer, font style

0-> Normal

1-> Italic

2-> Bold

3-> Bold and Italic

f: Integer, font with underline

1-> Without underline

g: String, font type face. Specify the true type font name. For example: Arial, Times new Roman.

h: String, text to be printed

11. downloadPCX(a,b)

Description: Download mono PCX graphics file to the printer

Parameter:

a: String; file name (including file retrieval path)

b: String, names of files that are to be downloaded in the printer memory (Please use capital letters)

12. (NSData) printer_status()

Description: Response printer status

Parameter: None

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iOS SDK Example

```
#include <TSCLIB/TSCLIB.h>
TSCLIB *lib = [TSCLIB new];
    [lib openport:@"10.0.10.141"];
    //[lib openport:@"com.issc.datapath"];
    [lib setupForWidth:@"100"
                height:@"70"
                 speed:@"3"
               density:@"10"
                sensor:@"0"
              vertical:@"0"
                offset:@"0"];
    [lib clearBuffer];
    [lib printerfontFromX:@"30"
                        y:@"100"
                 fontName:@"2"
                 rotation:@"0"
        magnificationRateX:@"2"
        magnificationRateY:@"3"
                  content:@"Printer Font Test!"];
    [lib barcodeFromX:@"30"
                    y:@"200"
          barcodeType:@"39"
               height:@"70"
             readable:@"1"
             rotation:@"0"
               narrow:@"2"
                 wide:@"2"
                 code:@"12345"];
    [lib windowsfontFromX:30
                        y:10
                   height:70
                 rotation:0
                    style:0
            withUnderline:1
                 fontName:@"Arial"
                  content:@"Arial Test"];
    NSBundle *mainBunle = [NSBundle mainBundle];
    NSString *absolutePath = [mainBunle pathForResource:@"UL" ofType:@"PCX"];
    [lib downloadPCX:absolutePath asName:@"RR.PCX"];
    [lib sendCommand:@"PUTPCX 200,150,\"RR.PCX\"\n"];
   [lib printLabelWithNumberOfSets:@"1" copies:@"1"];

    [lib closeport];
```

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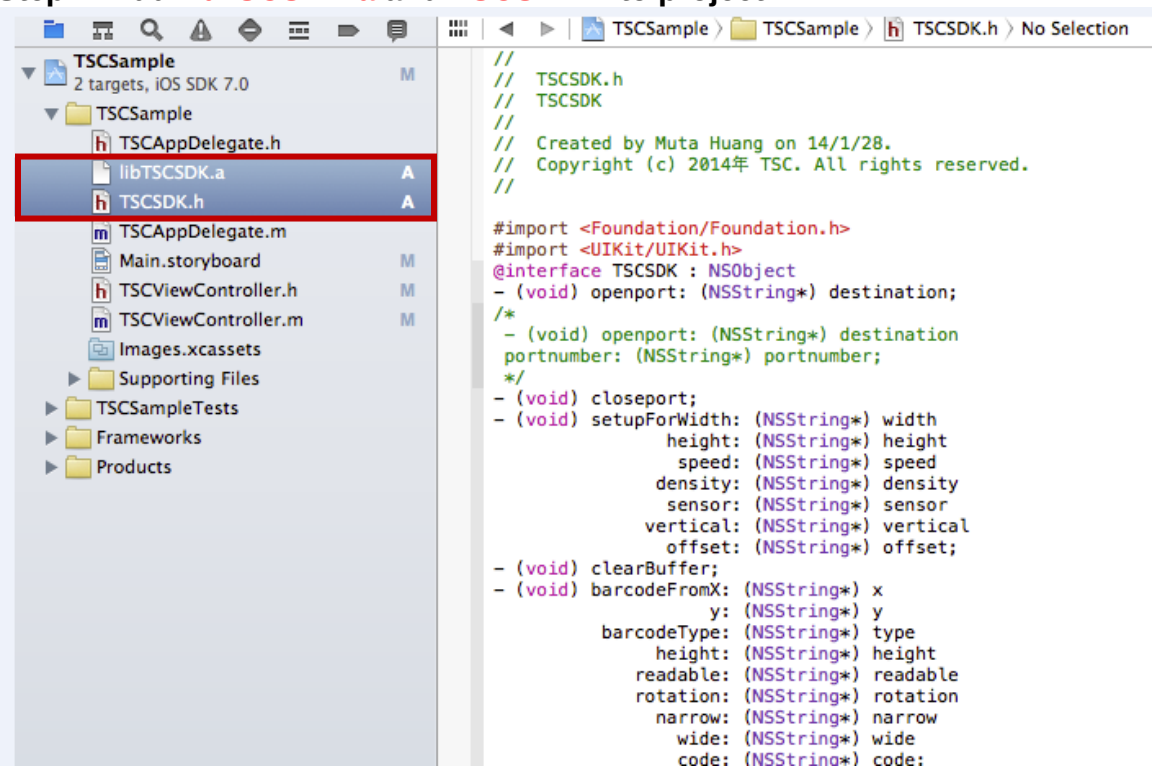
How to Use TSC iOS SDK?

Step 1. Add libTSCSDK.a and TSCSDK.h to project.



Step 2. Import library.
#import <TSCSDK.h>

Step3. Call function.
TSCSDK *lib = [TSCSDK new];