**Instructions for Android TSC Bluetooth**

**library functions**

**1. openport(a)**

Description: Open the printer Bluetooth port.

Parameter:

a: String

(1) Input the Bluetooth Mac Address, example:“00:19:0E:A0:04:E1”

**2. closeport()**

Description: Close printer Bluetooth port.

Parameter: None

**3. closeport(int delay)**

Description: Close printer Bluetooth port by specific delay time.

Parameter:

Int; Delay time, like: 500.

**4. setup(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、gap/black mark shift distance

Parameter:

a: string, sets up label width; unit: mm

b: string, sets up label height; unit: mm

c: string, sets up print speed, (selectable print speeds vary on different printer models)

1.0: sets print speed at 1.0"/sec

1.5: sets print speed at 1.5"/sec

2.0: sets print speed at 2.0"/sec

3.0: sets print speed at 3.0"/sec

4.0: sets print speed at 4.0"/sec

6.0: sets print speed at 6.0"/sec

8.0: sets print speed at 8.0"/sec

10.0: sets print speed at 10.0"/sec

12.0: sets print speed at 12.0"/sec

d: string, sets up print density

0~15，the greater the number, the darker the printing

e: string, sets up the sensor type to be used

0: signifies that vertical gap sensor is to be used

1: signifies that black mark sensor is to be used

f: string, sets up vertical gap height of the gap/black mark; unit: mm

g: string, sets up shift distance of the gap/black mark; unit:: mm; in the case of the average label, set this parameter to be 0.

**5. clearbuffer()**

Description: Clear

Parameter: None

**6. barcode(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 points

(of 200 DPI, 1 point=1/8 mm; of 300 DPI, 1point=1/12 mm)

b: string; the starting point of the bar code along the Y direction, given in points

(of 200 DPI, 1 point=1/8 mm; of 300 DPI, 1 point=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; sets up bar code height, given in points

e: string, sets up whether to print human recognizable interpretation (text)

or not.

0: prints no interpretation

1: prints interpretation

f: string; sets up rotation degrees

0: rotates 0 degree

90: rotates 90 degrees

180: rotates180 degrees

270: rotates 270 degrees

g: string; sets 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

**7. printerfont(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 points

(of 200 DPI, 1 point=1/8 mm; of 300 DPI, 1 point=1/12 mm)

b: string; the starting point of text (character string) along the Y direction, given in points

(of 200 DPI, 1 point=1/8 mm; of 300 DPI, 1 point=1/12 mm)

c: string; built-in font type name, 12 kinds in sum

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 (Customized Font)

TST16.BF2: Traditional Chinese 16\*16 (Customized Font)

TTT24.BF2: Traditional Chinese 24\*24 (Telecommunication Code) (Customized Font)

TSS24.BF2: Simplified Chinese 24\*24 (Customized Font)

TSS16.BF2: Simplified Chinese 16\*16 (Customized Font)

K: Japan, Korean font 24\*24, (Customized Font)

L: Japan Korean font 16\*16 (Customized Font)

d: string; sets up the rotation degree of the text (character string)

0: rotates 0 degree

90: rotate 90 degrees

180: rotate 180 degrees

270: rotate 270 degrees

e: string; sets up the magnification rate of text (character string) along the X direction, range: 1~8

f: string; sets up the magnification rate of text (character string) along the Y direction, range: 1~8

g: string; prints the content of text (character string)

**8. sendcommand(command)**

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

Parameter: Refer to TSPL for details

**9. printlabel(a,b)**

Description: Print label content

Parameter:

a: string; sets up the number of label sets

b: string, sets up the number of print copies

**10. downloadpcx(a)**

Description: Download mono PCX graphic files to the printer

Parameter:

a: string; file name (the file need save to Download folder path in handheld devices)

**11. downloadbmp(a)**

Description: Download mono BMP graphic files to the printer

Parameter:

a: string; file name (the file need save to Download folder path in handheld devices)

**12. downloadttf(a)**

Description: Download True Type Font file to the printer.

Parameter:

a: string; file name (the file need save to Download folder path in handheld devices)

**13. formfeed()**

Description: Skip to next page (of label); this function is to be used after setup Parameter: None

**14. nobackfeed()**

Description: disable the backfeed function

Parameter: None

**15. sendfile(a)**

Description: Send .txt files to the printer

Parameter:

a: string; file name (the file need save to Download folder path in handheld devices)

**16. printerstatus()**

Description: Response the printer status. Please reference TSPL <ESC>!? command.

Parameter: None

You need use String variable to receive the printer return the status.

Note: If connection is fail then it will return “-1”.

1. **printercodepage ()**

Description: Return printer codepage.

Parameter: None

1. **printermemory()**

Description: Return printer memory available size.

Parameter: None

1. **printerfile()**

Description: Return printer memory files.

Parameter: None

1. **printermileage()**

Description: Return printer mileage.

Parameter: None

**Android Example**

import com.example.tscdll.TSCActivity;

public class MainActivity extends Activity {

TSCActivity TscDll = new TSCActivity();

public void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

TscDll.openport("00:19:0E:A0:04:E1");

TscDll.downloadpcx("UL.PCX");

TscDll.downloadbmp("Triangle.bmp");

TscDll.downloadttf("ARIAL.TTF");

TscDll.setup(70, 110, 4, 4, 0, 0, 0);

TscDll.clearbuffer();

TscDll.sendcommand("SET TEAR ON\n");

TscDll.sendcommand("SET COUNTER @1 1\n");

TscDll.sendcommand("@1 = \"0001\"\n");

TscDll.sendcommand("TEXT 100,300,\"3\",0,1,1,@1\n");

TscDll.sendcommand("PUTPCX 100,300,\"UL.PCX\"\n");

TscDll.sendcommand("PUTBMP 100,520,\"Triangle.bmp\"\n");

TscDll.sendcommand("TEXT 100,760,\"ARIAL.TTF\",0,15,15,\"THIS IS ARIAL FONT\"\n");

TscDll.barcode(100, 100, "128", 100, 1, 0, 3, 3, "123456789");

TscDll.printerfont(100, 250, "3", 0, 1, 1, "987654321");

String status = TscDll.status();

text1.setText(status);

String batch = TscDll.batch();

text2.setText(batch);

TscDll.printlabel(2, 1);

TscDll.sendfile("zpl.txt");

TscDll.closeport();

}

}

You need input below command line to AndroidMainfest.xml first.

<uses-permission android:name="android.permission.BLUETOOTH\_ADMIN" />

<uses-permission android:name="android.permission.BLUETOOTH" />

<uses-permission android:name="android.permission.WRITE\_EXTERNAL\_STORAGE"/>