Instructions for TSCLIB.DLL functions

Prior to use the Dynamic Link Library, please make sure the bar code printer driver is installed on your PC.

1. openport(a)

Description: Start the Windows printer spool.

Parameter:

a: String

(1) For local printer, please specify the printer driver name.
Like: "GRIS-05GZ"

(2) For network printer, please specify the UNC path and printer name.
Like: "\\server\GRIS-05GZ"

(3) For centronics interface directly, please specify LPT1 to LPT4. Like: "LPT1"

(4) For USB interface directly, please specify USB.
Like: "USB"

2. closeport()

Description: Close Windows printer spool.

Parameter: None

3. 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.

4. clearbuffer()

Description: Clear

Parameter: None

5. 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 narrow bar ratio, refer to TSPL user's manual

I: string; bar code content

6. 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
TST16.BF2: Traditional Chinese 16*16
TTT24.BF2: Traditional Chinese 24*24 (Telecommunication Code)
TSS24.BF2: Simplified Chinese 24*24
TSS16.BF2: Simplified Chinese 16*16
K: Japan, Korean font 24*24,
L: Japan Korean font 16*16

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)

7. sendcommand(command)

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

Parameter: Refer to TSPL for details

8. 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

9. downloadpcx(a,b)

Description: Download mono PCX graphic files 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)

10. formfeed()

Description: Skip to next page (of label); this function is to be used after setup

Parameter: None

11. nobackfeed()

Description: disable the backfeed function

Parameter: None

12. windowsfont(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 points

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

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

0-> Without underline

1-> With underline

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

h: String, text to be printed.

13. about()

Description: Display the DLL version on the screen.

14. sendBinaryData(a,b)

Description: Send binary data to printer. Please reference TSPL manual <ESC>!? command.
a:Hex, Hex data
b:Int, Hex data length

15. windowsfontUnicode(a,b,c,d,e,f,g,h)

Description: Use Windows font to print Unicode text.
Parameter:
a: Integer, the starting point of the text along the X direction, given in points
b: Integer, the starting point of the text along the Y direction, given in points
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
0-> Without underline
1-> With underline
g: String, font type face. Specify the true type font name. For example: Arial, Times new Roman.
h: Byte Array, binary data. To be converted UTF-8 binary data from string.

16. usbportqueryprinter()
Description: Return printer status by USB.

17. usbprintername()
Description: Return printer model name by USB.

18. usbprinterserial()

Description: Return printer serial number by USB.

Examples of Visual Basic 5.0, 6.0 for Win95, Win98

```
Private Declare Sub openport Lib "c:\windows\system\tsclib.dll" (
                                        ByVal PrinterName as String)
Private Declare Sub closeport Lib "c:\windows\system\tsclib.dll" ()
Private Declare Sub sendcommand Lib "c:\windows\system\tsclib.dll" ( _
                                        ByVal command As String)
Private Declare Sub setup Lib "c:\windows\system\tsclib.dll" ( _
                                        ByVal LabelWidth As String, _
                                        ByVal LabelHeight As String, _
                                        ByVal Speed As String, _
                                        ByVal Density As String, _
                                        ByVal Sensor As String, _
                                        ByVal Vertical As String, _
                                        ByVal Offset As String)
Private Declare Sub downloadpcx Lib "c:\windows\system\tsclib.dll" ( _
                                        ByVal Filename As String, _
                                        ByVal ImageName As String)
Private Declare Sub barcode Lib "c:\windows\system\tsclib.dll" ( _
                                        ByVal X As String, _
                                        ByVal Y As String, _
                                        ByVal CodeType As String, _
                                        ByVal Height As String, _
                                        ByVal Readable As String, _
                                        ByVal rotation As String, _
                                        ByVal Narrow As String, _
                                        ByVal Wide As String, _
                                        ByVal Code As String)
Private Declare Sub printerfont Lib "c:\windows\system\tsclib.dll" ( _
                                        ByVal X As String, _
                                        ByVal Y As String, _
                                        ByVal FontName As String, _
                                        ByVal rotation As String, _
                                        ByVal Xmul As String, _
                                        ByVal Ymul As String, _
                                        ByVal Content As String)
Private Declare Sub clearbuffer Lib "c:\windows\system\tsclib.dll" ()
```

```
Private Declare Sub printlabel Lib "c:\windows\system\tsclib.dll" ( _
                                        ByVal NumberOfSet As String, _
                                        ByVal NumberOfCopy As String)
Private Declare Sub formfeed Lib "c:\windows\system\tsclib.dll" ()
Private Declare Sub nobackfeed Lib "c:\windows\system\tsclib.dll" ()
Private Declare Sub windowsfont Lib "c:\windows\system\tsclib.dll" ( _
                                        ByVal X As Integer, _
                                        ByVal Y As Integer, _
                                        ByVal fontheight As Integer, _
                                        ByVal rotation As Integer, _
                                        ByVal fontstyle As Integer, _
                                        ByVal fontunderline As Integer, _
                                        ByVal FaceName As String, _
                                        ByVal TextContent As String)

Private Sub Command1_Click()
Call openport(“TSC CLEVER TTP-243”)
‘Call openport(“\\server\TTP243”)    ‘Open network printer.
‘Call openport(“LPT1”)               ‘Open LPT1 port directly.
‘Call openport(“USB”)                ‘Open USB port directly.
‘Dim binary() As Byte = {80, 82, 73, 78, 84, 32, 49 }
Call setup("100", "100", "3", "10", "0", "0", "0")
Call clearbuffer
Call printerfont("10", "10", "4", "0", "1", "1", "TEST PRINTOUT")
Call barcode("10", "80", "39", "96", "1", "0", "2", "4", "0987654321")
Call sendcommand("BAR 400,200,300,100")
Call sendcommand("BOX 10,300,300,300,5")
Call windowsfont(10, 10, 80,0,2, 0, "arial", "Arial font 80 pt")
Call printlabel("1", "2")
  ‘Call sendBinaryData(binary, 7)
Call closeport
End Sub
```

FoxPro Example

```
declare openport in c:\windows\system\tsclib.dll    string
declare closeport in c:\windows\system\tsclib.dll
declare sendcommand in c:\windows\system\tsclib.dll
declare setup in c:\windows\system\tsclib.dll
                string,string,string,string,string,string,string
declare downloadpcx in c:\windows\system\tsclib.dll
                string, string
declare barcode in c:\windows\system\tsclib.dll
                string,string,string,string,string,string,string,string,string
declare printerfont in c:\windows\system\tsclib.dll
                string,string,string,string,string,string,string

declare clearbuffer in c:\windows\system\tsclib.dll
declare printlabel in c:\windows\system\tsclib.dll string,string
declare formfeed in c:\windows\system\tsclib.dll
declare nobackfeed in c:\windows\system\tsclib.dll
declare windowsfont in c:\windows\system\tsclib.dll
                integer,integer,integer,integer,integer,integer,string,string


openport(“TSC CLEVER TTP-243”)
setup("32","25","2","10","0","0","0")
clearbuffer()
barcode("10","0","EAN13","80","1","0","2","4","123456789012")
windowsfont(10,100,50,0,0,0,"Arial","True type font test")
printlabel("1","1")
closeport()
```

Delphi Declaration Example

```
procedure openport(PrinterName:pchar);stdcall;far;external ‘tsclib.dll’;
procedure closeport; external ‘tsclib.dll’;
procedure sendcommand(Command:pchar);stdcall;far;external ‘tsclib.dll’;
procedure setup(LabelWidth, LabelHeight, Speed, Density, Sensor, Vertical,
                    Offset:pchar);tsdcall; far; external ‘tsclib.dll’;
procedure downloadpcx(Filename,ImageName:pchar);stdcall;far;
                                external ‘tsclib.dll’;
procedure barcode(X, Y, CodeType, Height, Readable, Rotation, Narrow,
                        Wide, Code :pchar); stdcall; far; external ‘tsclib.dll’;
procedure printerfont(X, Y, FontName, Rotation, Xmul, Ymul, Content:pchar);
                            stdcall;far; external ‘tsclib.dll’;
procedure clearbuffer; external ‘tsclib.dll’;
procedure printlabel(NumberOfSet, NumberOfCopoy:pchar);stdcall; far;
                            external ‘tsclib.dll’;
procedure formfeed;external ‘tsclib.dll’;
procedure nobackfeed; external ‘tsclib.dll’
procedure windowsfont (X, Y, FontHeight, Rotation, FontStyle,
                                FontUnderline : integer; FaceName,
                                TextContect:pchar);stdcall;far;external ‘tsclib.dll’;
```

Please note that the function name is case sensitive.