

# iOS TSPL 编程手册

## Bluetooth

### 1.定义 TSCBLEManager 类

#### 1.1 sharedInstance

单例.

- (void) sharedInstance

#### 1.2 startScan

扫描蓝牙设备.

- (void) startScan

#### 1.3 stopScan

停止扫描蓝牙设备.

-(void) stopScan

#### 1.4 connectDevice

连接设备.

-(void)connectDevice:(CBPeripheral \*)peripheral

[参数]

-peripheral: Device.

#### 1.5 disconnectRootPeripheral

断开连接.

- (void) disconnectRootPeripheral

#### 1.6 writeCommandWithData

向打印机发送数据.

- (void) writeCommandWithData: (NSData \*) data

[参数]

- data: 打印数据.

## 1.7 printerStatus

获取打印机状态

- (void)printerStatus:(TSCBLEPrinterStatusBlock)statusBlock;

[参数]

- statusBlock: 状态回调结果.

## TSCBLEManagerDelegte

### ★ TSCbleUpdatePeripheralList

蓝牙发现设备.

- (void) TSCbleUpdatePeripheralList: (NSArray \*) peripherals RSSIList:  
(NSArray \*) rssiList

[参数]

- peripherals: 设备列表.
- rssiList: 信号强度列表.

### ★ TSCbleConnectPeripheral

蓝牙连接成功.

- (void) TSCbleConnectPeripheral: (CBPeripheral \*) peripheral

[参数]

- peripheral: 设备.

### ★ TSCbleFailToConnectPeripheral

蓝牙连接失败.

- (void) TSCbleFailToConnectPeripheral: (CBPeripheral \*) peripheral  
error: (NSError \*)error

[参数]

- peripheral: 设备.
- error: 错误.

## ★ TSCbleDisconnectPeripheral

蓝牙设备断开.

- (void) TSCbleDisconnectPeripheral: (CBPeripheral \*) peripheral

[参数]

- peripheral: 设备.

## ★ TSCbleWriteValueForCharacteristic

蓝牙发送数据成功.

- (void) TSCbleWriteValueForCharacteristic: (CBCharacteristic \*) character error: (NSError \*) error

[参数]

- character: 设备特征值.
- error: 错误.

## ★ TSCbleReceiveValueForCharacteristic

Receive data from printer.

- (void) TSCbleReceiveValueForCharacteristic: (CBCharacteristic \*) character error: (NSError \*) error

[参数]

- character: 设备特征值.
- error: 错误.

## ★ TSCbleCentralManagerDidUpdateState

app蓝牙状态更新.

- (void)TSCbleCentralManagerDidUpdateState:(NSInteger)state;

[参数]

- state: 蓝牙状态值

CBManagerStateUnsupported	平台/硬件不支持蓝牙低功耗。
CBManagerStateUnauthorized	该应用程序未被授权使用蓝牙低功耗。
CBManagerStatePoweredOff	蓝牙已关闭。
CBManagerStatePoweredOn	蓝牙已打开。

## WiFi

## 2.定义 TSCWIFIManager 类

### 2.1 sharedInstance

单例.

- (void) sharedInstance

### 2.2 connectWithHost

连接打印机.

- (void) connectWithHost: (NSString \*) hostStr port: (UInt16 \*) port

[参数]

- hostStr: 主机ip地址.

- port: 端口号.

### 2.3 disconnect

断开连接.

- (void) disconnect

### 2.4 writeCommandWithData

向打印机发送数据.

- (void)writeCommandWithData: (NSData \*) data

[参数]

- data: 打印数据.

## TSCWIFIManagerDelegate

### ★ TSCwifiConnectedToHost

打印机连接成功.

- (void) TSCwifiConnectedToHost: (NSString \*) host port: (UInt16) port

[参数]

- host: IP 地址.

- port: 端口号.

### ★ TSCwifiDisconnectWithError

Disconnected a Printer.

- (void) TSCwifiDisconnectWithError: (NSError \*) error

[参数]

- error: 错误.

### ★ TSCwifiWriteValueWithTag

发送数据成功.

- (void) TSCwifiWriteValueWithTag:(long)tag

### ★ TSCwifiReceiveValueForData

接收打印机数据.

- (void) TSCwifiReceiveValueForData:(NSData \*)data

[参数]

- data: 打印机回传数据.

## 3.定义 TSCCommand 类

### 3.1 sizeBymmWithWidth

设定标签纸的宽度及长度. 单位mm

+ (NSData \*) sizeBymmWithWidth: (double) m andHeight: (double) n

[参数]

- m: 标签宽度

- n: 标签高度

[返回值]

- NSData \*: Send data.

### 3.2 sizeByinchWithWidth

设定标签纸的宽度及长度. 单位inch

+ (NSData \*) sizeByinchWithWidth: (double) m andHeight: (double) n

[参数]

- m: 标签宽度

- n: 标签高度

[返回值]

- NSData \*: Send data.

### 3.3 gapBymmWithWidth

设定标签纸的宽度及高度. 单位mm

+ (NSData \*) gapBymmWithWidth: (double) m andHeight: (double) n

[参数]

- m: 标签间隙

- n: 标签间隙补偿

[返回值]

- NSData \*: Send data.

### 3.4 gapByinchWithWidth

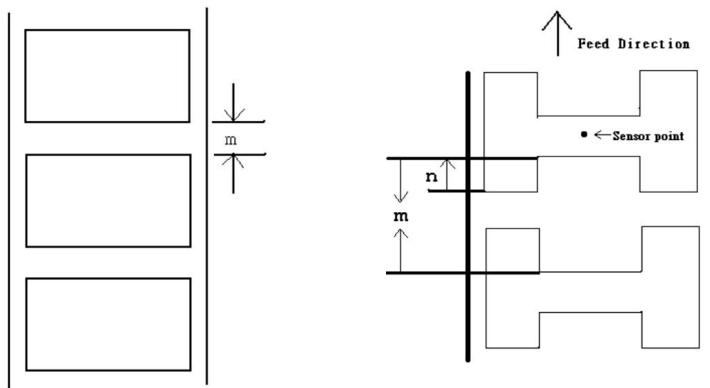
设定标签纸的宽度及高度. 单位inch

+ (NSData \*) gapByinchWithWidth: (double) m andHeight: (double) n

[参数]

- m: 标签间隙

- n: 标签间隙补偿



[返回值]

- NSData \*: 向打印机发送数据.

### 3.5 blineByymmWithM

设定黑标高度及使用者定义标签印完后标签额外送出的长度.

+ (NSData \*) blineByymmWithM: (double) m andN: (double) n

[参数]

- m: 黑标高度。2.54 ~ 25.4mm

- n: 额外送出纸张长度。0 ~ label length

[返回值]

- NSData \*: Send data.

### 3.6 blineByinchWithM

Sets the height of the black line and the user-defined extra label feeding length each from feed takes.

+ (NSData \*) blineByinchWithM: (double) m andN: (double) n

[参数]

- m: the height of black line。 0.1 ~ 1 inch

- n: the extra label feeding length。 0 ~ label length

[返回值]

- NSData \*: Send data.

### 3.7 offSetBymmWithM

设置标签打印完后额外推出的长度.

+ (NSData \*) offSetBymmWithM: (double) m

[参数]

- m: 0 ~ 25.4mm

[返回值]

- NSData \*: Send data.

### 3.8 offSetByinchWithM

设置标签打印完后额外推出的长度.

+ (NSData \*) offSetByinchWithM: (double) m

[参数]

- m: 0 ~ 1

[返回值]

- NSData \*: Send data.

### 3.9 speed



设置走纸速度.

+ (NSData \*) speed: (double) n

[参数]

- n: 每秒打印速度, 以英寸计算

[返回值]

- NSData \*: Send data.

### 3.10 density

设置打印浓度.

+ (NSData \*) density: (int) n

[参数]

- n: 0 ~ 15

[返回值]

- NSData \*: Send data.

### 3.11 direction

设置打印方向

+ (NSData \*) density: (int) n

[参数]

- n: 0: 向前 1: 反向

[返回值]

- NSData \*: Send data.

### 3.12 cls

清空缓存区域

+ (NSData \*) cls

[返回值]

- NSData \*: Send data.

### 3.13 feed

标签纸推进对应长度

+ (NSData \*) feed: (int) n

[参数]

- n: 走纸长度, 单位为点. 1 ~ 9999

[返回值]

- NSData \*: Send data.

### 3.14 backFeed

将标签纸向后回拉指定的长度.

+ (NSData \*) backFeed: (int) n

[参数]

- n: 回拉长度 单位为点. 1 ~ 9999

[返回值]

- NSData \*: Send data.

### 3.15 formFeed

将标签纸向前推送一张标签纸的距离

+ (NSData \*) formFeed

[返回值]

- NSData \*: Send data.

### 3.16 limitFeedBymm

限定间隙校正执行的最大长度

+ (NSData \*) limitFeedBymm: (double) n

[参数]

- n: 限定长度 单位为mm.

[返回值]

- NSData \*: Send data.

### 3.17 limitFeedByinch

限定间隙校正执行的最大长度

+ (NSData \*) limitFeedByinch: (double) n

[参数]

- n: 限定长度 单位为inch.

[返回值]

- NSData \*: Send data.

### 3.18 home

对标签位置进行校准

+ (NSData \*) home

[返回值]

- NSData \*: Send data.

### 3.19 referenceWithX

定义标签纸的原点坐标

+ (NSData \*) referenceWithX: (int) x andY: (int) y

[参数]

- x: 水平坐标 单位为点.

- y: 垂直坐标 单位为点.

[返回值]

- NSData \*: Send data.

### 3.20 codePage

设置国际代码页

+ (NSData \*) codePage: (NSString \*) str

[参数]

- str:

Variable	Describe
437	United States
850	Multilingual
852	Slavic
860	Portuguese
863	Canadian / French
865	Nordic
1250	Central Europe
1252	Latin I
1253	Greek
1254	Turkish

[返回值]

- NSData \*: Send data.

### 3.21 print

加入打印指令，并且发送缓冲区的内容，清空缓冲区。

+ (NSData \*) print: (int) m

[参数]

- m: 打印次数.

[返回值]

- NSData \*: Send data.

### 3.22 cut

切纸.

+ (NSData \*) cut

[返回值]

- NSData \*: Send data.

### 3.23 soundWithLevel

设置蜂鸣器发声.

+ (NSData \*) soundWithLevel: (int) level andInterval: (int) interval

[参数]

- level: 声音阶级 0 ~ 9.

- interval: 声音间隔 1 ~ 4095. by ms

[返回值]

- NSData \*: Send data.

### 3.24 selfTest

打印机自测页.

+ (NSData \*) selfTest

[返回值]

- NSData \*: Send data.

### 3.25 initialPrinter

初始化打印机到默认.

+ (NSData \*) initialPrinter

[返回值]

- NSData \*: Send data.

### 3.26 barWithX

绘制长条

+ (NSData \*) barWithX: (int) x andY: (int) y andWidth:(int) w andHeight:  
(int) h

[参数]

- x: 长条起始横坐标. 单位为点

- y: 长条起始纵坐标. 单位为点
- w: 长条宽度. 单位为点
- h: 长条高度. 单位为点

[返回值]

- NSData \*: Send data.

## 3.27 barcodeWithX

绘制一维条码

+ (NSData \*) barcodeWithX: (int) x andY: (int) y andCodeType: (NSString \*) codetype andHeight: (int) height andHunabReadable: (int) readable andRotation: (int) rotation andNarrow: (int) narrow andWide: (int) wide andContent: (NSString \*) content usStrEnCoding: (NSStringEncoding) strEnCoding

[参数]

- x: 条码起始点横坐标, 单位为点.
- y: 条码起始点纵坐标, 单位为点.
- codetype:

Variable	Describe
128	Code 128, switching code subset automatically
128M	Code 128, switching code subset manually
EAN128	EAN 128, switching code subset automatically
25	Interleaved 2 of 5
25C	Interleaved 2 of 5 with check digit
39	Code 39
39C	Code 39 with check digit
93	Code 93
EAN13	EAN 13
EAN13+2	EAN 13 with 2 digits add-on
EAN13+5	EAN 13 with 5 digits add-on

Variable	Describe
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
UPA+5	UPC-A with 5 digits add-on
UPCE	UPC-E
UPCE+2	UPC-E with 2 digits add-on
UPE+5	UPC-E with 5 digits add-on
CPOST	China post
MSI	MSI
MSIC	MSI with check digit
PLESSEY	PLESSEY
ITF14	ITF14
EAN14	EAN14
11	Code 11
TELEPEN	Telepen
TELEPENN	Telepen number
PLANET	Planet
CODE49	Code 49
DPI	Deutsche Post Identcode
DPL	Deutsche Post Leitcode

- height: 条码高度，单位为点.

- readable: 是否显示可识别字符

Variable	Describe
0	NONE
1	LEFT

Variable	Describe
2	MIDDLE
3	RIGHT

- rotation: 0, 90, 180, 270
- narrow: 窄条码比例因子,单位为点. default: 2.
- wide: 宽条码比例因子,单位为点. default: 2.
- content: 条码内容.
- strEnCoding: 内容编码.

[返回值]

- NSData \*: Send data.

### 3.28 bitmapWithX

绘制图片.

+ (NSData \*) bitmapWithX: (int) x andY: (int) y andMode: (int) mode  
andImage: (UIImage \*) image

[参数]

- x: 图片起始点横坐标.
- y: 图片起始点纵坐标.
- mode

Variable	Describe
0	OVERWRITE
1	OR
2	XOR

- image:图片对象.

[返回值]

- NSData \*: Send data.



### 3.29 boxWithX

绘制矩形

+ (NSData \*) boxWithX: (int) x andY: (int) y andEndX: (int) x\_end  
andEndY: (int) y\_end andThickness: (int) thickness

[参数]

- x: 矩形起始横坐标，单位为点.
- y: 矩形起始纵坐标，单位为点.
- x\_end: 矩形结束横坐标，单位为点.
- y\_end: 矩形结束纵坐标，单位为点.
- thickness: 线条宽度.

[返回值]

- NSData \*: Send data.

### 3.30 ellipseWithX

绘制椭圆.

+ (NSData \*) ellipseWithX: (int) x andY: (int) y andWidth: (int) width  
andHeight: (int) height andThickness: (int) thickness

[参数]

- x: 椭圆起始横坐标，单位为点.
- y: 椭圆起始纵坐标，单位为点.
- width: 椭圆长度，单位为点.
- height: 椭圆高度，单位为点.
- thickness: 线条宽度.

[返回值]

- NSData \*: Send data.

### 3.31 eraseWithX

擦除指定区域的数据.

+ (NSData \*) eraseWithX: (int) x andY: (int) y andWidth: (int) width  
andHeight: (int) height

[参数]

- x: 区域起始横坐标.
- y: 区域起始纵坐标.
- width: 区域宽度.
- height: 区域高度.

[返回值]

- NSData \*: Send data.

### 3.32 qrCodeWithX

绘制二维码.

+ (NSData \*) qrCodeWithX: (int) x andY: (int) y andEccLevel: (NSString  
\*) ecclevel andCellWidth: (int) cellwidth andMode:(NSString \*) mode  
andRotation: (int) rotation andContent: (NSString \*) content usStrEnCoding:  
(NSStringEncoding) strEnCoding

[参数]

- x: 二维码起始横坐标.
- y: 二维码起始纵坐标.
- ecclevel:

Variable	Describe
L	7%
M	15%
Q	25%
H	30%

- cellwidth: 单元格大小 1 ~ 10.

- mode:

Variable	Describe
A	Auto-generated coding
M	Manual-generated coding

- rotation: 0, 90, 180, 270

- content: 二维码数据内容.

- strEncoding: 二维码内容编码.

[返回值]

- NSData \*: Send data.

### 3.33 reverseWithX

将指定区域的数据黑白反向显示.

+ (NSData \*) reverseWithX: (int) x andY: (int) y andWidth: (int) width  
andHeight: (int) height

[参数]

- x: 区域起始横坐标.

- y: 区域起始纵坐标.

- width: 区域宽度.

- height: 区域高度.

[返回值]

- NSData \*: Send data.

### 3.34 textWithX

绘制文本.

+ (NSData \*) textWithX: (int) x andY: (int) y andFont: (NSString \*) font  
andRotation: (int) rotation andX\_mul: (int) x\_mul andY\_mul: (int) y\_mul

andContent: (NSString \*) content usStrEnCoding: (NSStringEncoding)  
strEnCoding

[参数]

- x: 文本的起始x值.
- y: 文本的起始 y 值.
- font:

Variable	Describe
0	Monotype CG Triumvirate Bold Condensed, font width and height is stretchable
1	8 * 12 fixed pitch dot font
2	12 * 20 fixed pitch dot font
3	16 * 24 fixed pitch dot font
4	24 * 32 fixed pitch dot font
5	32 * 48 fixed pitch dot font
6	14 * 19 fixed pitch dot font
7	21 * 27 fixed pitch dot font
8	14 * 25 fixed pitch dot font

- rotation: 0, 90, 180, 270
- x\_mul: 文字横向放大倍数, 1 ~ 10.
- y\_mul: 字体纵向放大倍数, 1 ~ 10.
- content: 文本内容.
- strEnCoding: 文本内容编码格式.

[返回值]

- NSData \*: Send data.

### 3.35 setAutoResponse

设定打印机自动返回信息

+ (NSData \*)setAutoResponse:(AutoResponse)response

Variable	Describe
OFF	关闭打印机自动返回信息功能
ON	打开打印机自动返回信息功能
BATCH	打开打印机的自动返回信息功能，在完成整批任务后返回信息

[返回值]

- NSData \*: Send data.

### 3.36 zlibBitmapWithX

绘制bitmap图像，支持压缩算法

+(NSData \*) zlibBitmapWithX:(int) x andY:(int) y andMode:(int) mode  
andImage:(UIImage\*) image;

[参数]

- x: 图片起始点横坐标.

- y: 图片起始点纵坐标.

- mode:

Variable	Describe
0	OVERWRINTE
1	OR
2	XOR
3	OVERWRINTE + zlib
4	OR +zlib
5	XOR + zilb

- image:图片对象.

[返回值]

- NSData \*: Send data.