

iOS POS 编程手册

Bluetooth

1.定义 POSBLEManager 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 printerCheck

检查打印机是否连接

- (BOOL) printerCheck

[返回值]

- BOOL: YES or NO.

1.8 printerStatus

打印机状态上报.

- (void) printerStatus: (POSBLEPrinterStatusBlock *) statusBlock

[参数]

- statusBlock: Status callback method.

POSBLEManagerDelegte

★ POSbleUpdatePeripheralList

蓝牙发现设备.

- (void) POSbleUpdatePeripheralList: (NSArray *) peripherals RSSIList:

(NSArray *) rssiList

[参数]

- peripherals: 设备列表.

- rssiList: 信号强度列表.

★ POSbleConnectPeripheral

蓝牙连接成功.

- (void) POSbleConnectPeripheral: (CBPeripheral *) peripheral

[参数]

- peripheral: 设备.

★ POSbleFailToConnectPeripheral

蓝牙连接失败.

- (void) POSbleFailToConnectPeripheral: (CBPeripheral *) peripheral
error: (NSError *) error

[参数]

- peripheral: 设备.

- error: 错误.

★ POSbleDisconnectPeripheral

蓝牙设备断开.

- (void) POSbleDisconnectPeripheral: (CBPeripheral *) peripheral

[参数]

- peripheral: 设备.

★ POSbleWriteValueForCharacteristic

蓝牙发送数据成功.

- (void) POSbleWriteValueForCharacteristic: (CBCharacteristic *)
character error: (NSError *) error

[参数]

- character: 设备特征值.

- error: 错误.

★ POSbleReceiveValueForCharacteristic

蓝牙接收数据.

- (void) POSbleReceiveValueForCharacteristic: (CBCharacteristic *)
character error: (NSError *) error

[参数]

- character: 设备特征值.

- error: 错误.

★ POSbleCentralManagerDidUpdateState

app蓝牙状态更新.

- (void)POSbleCentralManagerDidUpdateState:(NSInteger)state;

[参数]

- state: 蓝牙状态值

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

WiFi

2.定义 POSWIFIManager 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.

2.5 printerCheck

检查打印机是否连接.

- (BOOL) printerCheck

[返回值]

- BOOL: YES or NO.

2.6 printerStatus

打印机状态上报.

- (void) printerStatus: (POSBLEPrinterStatusBlock *) statusBlock

[参数]

- statusBlock: Status callback method.

2.7 createUdpSocket

创建UDP对象.

- (BOOL) createUdpSocket

[返回值]

- BOOL: YES or NO

2.8 closeUdpSocket

关闭UDP通道.

- (void) closeUdpSocket

2.9 sendFindCmd

发送UDP数据，搜索打印机。

- (void) sendFindCmd:
(POSWIFIManagerFoundPrinterBlock)printerBlock

[参数]

- printerBlock: Callback method

2.10 connectWithMac

连接打印机通过mac地址。

- (void) connectWithMac: (NSString *)macStr

[参数]

- macStr: Mac address text

2.11 writeCommandWithData

向打印机发送数据分包。

- (void) writeCommandWithData: (NSData *)data subpackageLength:
(int)subpackageLength writeCallback:
(POSWIFIManagerWriteBlock)writeBlock

[参数]

- data: 打印机数据。

- subpackageLength: 分包大小。

- writeCallback: Callback method.

2.12 setIPConfigWithIP

设置打印机IP Mask Gateway DHCP.

- (void)setIPConfigWithIP: (NSString *)ip Mask:(NSString *)mask
Gateway:(NSString *)gateway DHCP:(BOOL)dhcp

[参数]

- ip: ip address.

- mask: mask address.

- gateway: gateway address.
- dhcp: YES or NO.

2.13 setWiFiConfigWithIP

设置WiFi信息.

- (void)setWiFiConfigWithIP: (NSString *)ip Mask:(NSString *)mask Gateway:(NSString *)gateway ssid:(NSString *)ssid password: (NSString *)password encrypt:(NSUInteger)encrypt

[参数]

- ip: ip address.
- mask: mask address.
- gateway: gateway address.
- ssid: ssid number.
- password: wifi password.
- encrypt: wifi encrypt method.

2.14 printerSN

查找打印机SN码.

- (void) printerSN: (POSWiFiPrinterSNBlock *) snBlock

[参数]

- snBlock: Serial Number callback method.

POSWiFiManagerDelegate

★ POSwifiConnectedToHost

打印机连接成功.

- (void) POSwifiConnectedToHost: (NSString *) host port: (UInt16) port

[参数]

- host: IP 地址.

- port: 端口号.

★ POSwifiDisconnectWithError

打印机断开.

- (void) POSwifiDisconnectWithError: (NSError *) error

[参数]

- error: 错误.

★ POSwifiWriteValueWithTag

发送数据成功.

- (void) POSwifiWriteValueSuccessWithTag:(long)tag

★ POSwifiReceiveValueForData

接收打印机数据.

- (void) POSwifiReceiveValueForData:(NSData *)data

[参数]

- data: 打印机回传数据.

★ POSwifiUDPSearchFoundPrinter

打印机搜索返回通过UDP数据

- (void) POSwifiUDPSearchFoundPrinter:(PrinterProfile *)foundPrinter

[参数]

- foundPrinter: 搜索发现的打印机对象.

★ POSwifiUDPSearchFinishDiscovery

打印机UDP搜索完毕.

- (void) POSwifiReceiveValueForData

3.定义PosCommand 类

3.1 initializePrinter

初始化打印机.

+ (NSData *) initializePrinter

[返回值]

- NSData *: Send data.

3.2 printAndFeedLine

打印并向前走纸.

+ (NSData *) printAndFeedLine

[返回值]

- NSData *: Send data.

3.3 printAndBackStandardModel

打印并回到标准模式.

+ (NSData *) printAndBackStandardModel

[返回值]

- NSData *: Send data.

3.4 canglePrintDataByPageModel

页模式下取消打印.

+ (NSData *) canglePrintDataByPageModel

[返回值]

- NSData *: Send data.

3.5 printUnderPageModel

页模式下打印.

+ (NSData *) printUnderPageModel

[返回值]

- NSData *: Send data.

3.6 setDefaultLineSpace

设置默认行距.

+ (NSData *) setDefaultLineSpace

[返回值]

- NSData *: Send data.

3.7 setLeftSpaceWithnL

设置距离左边位置.

+ (NSData *) setLeftSpaceWithnL:(int) nL andnH:(int) nH

[参数]

- nL: 0 ~ 255

- nH: 0 ~ 255

(nL+nH*256) print area width

[返回值]

- NSData *: Send data.

3.8 selectPagemodel

选择页模式.

+ (NSData *) selectPagemodel

[返回值]

- NSData *: Send data.

3.9 selectFont

选择字体.

+ (NSData *) selectFont: (int) n

[参数]

- n:

0, 48	ASCII (12 * 24)
1, 49	ASCII (9 * 17)

[返回值]

- NSData *: Send data.

3.10 selectInternationalCharacterSets

选择国际字符集.

+ (NSData *) selectInternationalCharacterSets: (int) n

[参数]

- n:

0	America
1	France
2	Germany
3	England
4	Denmark 1
5	Sweden
6	Italy
7	Spain 1
8	Japan
9	Norway
10	Denmark 2
11	Spain 2
12	Latin America
13	Korea
14	Slovenia / Croatia
15	China

[返回值]

- NSData *: Send data.

3.11 selectStandardModel

选择标准模式

+ (NSData *) selectStandardModel

[返回值]

- NSData *: Send data.

3.12 printAndFeedForwardWhitN

打印并走纸n行.

+ (NSData *) printAndFeedForwardWhitN: (int) n

[参数]

- n: 0~255.

[返回值]

- NSData *: Send data.

3.13 selectOrCancleInvertPrintModel

取消或选择黑白反转打印.

+ (NSData *) selectOrCancleInvertPrintModel: (int) n

[参数]

- n: 1: select; 0: cancel.

[返回值]

- NSData *: Send data.

3.14 setHorizontalAndVerticalMoveUnitWithX

设置移动单元.

+ (NSData *) setHorizontalAndVerticalMoveUnitWithX: (int) x andY:(int) y

[参数]

- x: horizontal, 0~255

- y: vertical, 0~255

[返回值]

- NSData *: Send data.

3.15 setBarcodeHeight

设置条码高度.

+ (NSData *) setBarcodeHeight: (int) n

[参数]

- n: 1~255, default: 162.

[返回值]

- NSData *: Send data.

3.16 setBarcodeWidth

设置条码宽度.

+ (NSData *) setBarcoeWidth: (int) n

[参数]

- n: 2~6, default: 3.

[返回值]

- NSData *: Send data.

3.17 printBarcodeWithM

打印一维条码.

+ (NSData *) printBarcodeWithM: (int) m andContent: (NSString *) content useEnCodeing: (NSStringEncoding) strEncoding

[参数]

- m:

0	UPC-A
1	UPC-E
2	JAN13 (EAN13)
3	JAN8 (EAB13)

4	CODE39
5	ITF
6	CODABAR

- content: 条码内容.
- strEncoding: Character Encoding.

[返回值]

- NSData *: Send data.

3.18 printRasteBmpWithM

打印光栅位图.

+ (NSData *) printRasteBmpWithM: (PrintRasterType) m andImage: (UIImage *) image andType: (BmpType) type andPaperHeight: (int) paperheight

[参数]

- m:

RasterNolmorWH	Normal
RasterDoubleWidth	Double width
RasterDoubleHeight	Double height
RasterDoubleWH	Double width and height

- image: 图片对象
- type: Dithering or Threshold.
- paperheight: 页面高度.

[返回值]

- NSData *: Send data.

3.19 selectAlignment

设置文本对齐方式.

+ (NSData *) selectAlignment: (int) n

[参数]

- n:

0, 48	left alignment
1, 49	center alignment
2, 50	right alignment

[返回值]

- NSData *: Send data.

3.20 selectHRICharactersPrintPosition

设置条码位置.

+ (NSData *) selectHRICharactersPrintPosition: (int) n

[参数]

- n:

0, 48	none
1, 49	above
2, 50	below
3, 51	above and below

[返回值]

- NSData *: Send data.

3.21 setPrintAreaWidthWithnL

设置打印区域宽度.

+ (NSData *) setPrintAreaWidthWithnL: (int) nL andnH:(int)nH

[参数]

- nL: $0 \leq nL \leq 255$

- nH: $0 \leq nH \leq 255$

(nL+nH*256) print area width

[返回值]

- NSData *: Send data.

3.22 printQRCode

绘制二维码.

+ (NSData *) printQRCode: (int) n level:(int)errLevel code: (NSString*)code useEnCodeing: (NSStringEncoding)strEncoding

[参数]

- n: 单元格大小 1~16

- errLevel: 纠错登记 48~51

48	error correct level L (7%)
49	error correct level M (15%)
50	error correct level Q (25%)
51	error correct level H (30%)

- strEncoding: Character Encoding.

[返回值]

- NSData *: Send data.

3.23 creatCashBoxContorPulseWithM

设置钱箱.

+ (NSData *) creatCashBoxContorPulseWithM: (int) m andT1:(int) t1 andT2:(int) t2

[参数]

- m:

0, 48	pin 2
0, 49	pin 5

- t1: 0 ~ 255, default 30

- t2: 0 ~ 255, default 255

钱箱产生脉冲开始时间 $\text{onTime} * 2\text{ms}$, 钱箱产生脉冲结束 $\text{offTime} * 2\text{ms}$
如果 $\text{onTime} > \text{offTime}$, 结束时间为 $\text{onTime} * 2\text{ms}$

[返回值]

- NSData *: Send data.

3.24 setBeeper

设置蜂鸣.

+ (NSData *) setBeeper: (BOOL) onSwitch

[参数]

- onSwitch: YES or NO

[返回值]

- NSData *: Send data.

3.25 setCutterAndBeeper

设置切纸后蜂鸣

+ (NSData *) setCutterAndBeeper: (int) count interval:(int)interval

[参数]

- count: 蜂鸣次数

- interval: 蜂鸣间隔 * *50ms*

[返回值]

- NSData *: Send data.

3.26 setCashBoxOpen

钱箱开启.

+ (NSData *) setCashBoxOpen

[返回值]

- NSData *: Send data.

4.定义PTable 类

4.1 addAutoTableH

添加自动换行表格内容.

```
+ (NSData *)addAutoTableH:(NSArray<NSString *> *)titles titleLength:
(NSArray<NSNumber *> *)lengths align:(TableAlignType)align;
```

[参数]

- titles: 文本内容数组
- lengths: 文本内容数组对应的字符长度数组
- align:

AllLeftAlign	全部文本内容左对齐
AllRightAlign	全部文本内容右对齐
FirstLeftAlign	仅第一列文本内容左对齐，其余右对齐

[返回值]

- NSData *: Send data.

(注意：文本内容数组长度必须跟字符长度数组长度一致，一个中文字符默认占2个字符长度，其余字符默认占1个字符长度)

4.2 addBarcodeRow

添加条码.

```
+ (NSData *)addBarcodeRow:(NSString *)data type:
(BCSBarcodeType)type hri:(BarHriText)hri;
```

[参数]

- data: 文本内容
- type: 条码类型

BCS_UPCA	UPCA
BCS_UPCE	UPCE

BCS_EAN13	EAN13/JAN13
BCS_EAN8	EAN8/JAN8
BCS_Code39	CODE39
BCS_ITF	ITF
BCS_Codabar	CODABAR
BCS_Code93	CODE93
BCS_Code128	CODE128

- hri:条码的文本位置

BAR_HRI_TEXT_NONE	无
BAR_HRI_TEXT_BELOW	条码在文本下面
BAR_HRI_TEXT_ABOVE	条码在文本上面
BAR_HRI_TEXT_BOTH	上下都有

[返回值]

- NSData *: Send data.