

# iOS Program Interface Manual

## Bluetooth:

### 1. Defined in the POSBLEManager Class

#### 1.1 sharedInstance

Singleton.

- (void) sharedInstance

#### 1.2 startScan

Search for bluetooth printers.

- (void) startScan

#### 1.3 stopScan

Stop searching for bluetooth printers.

-(void) stopScan

#### 1.4 connectDevice

Connect a Printer.

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

[Parameter]

-peripheral: Device.

#### 1.5 disconnectRootPeripheral

Disconnect a Printer.

- (void) disconnectRootPeripheral

#### 1.6 writeCommandWithData

Data printing.

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

[Parameter]

- data: Data to print.

# POSBLEManagerDelegte

## 1.7 POSbleUpdatePeripheralList

Discover peripherals.

- (void) POSbleUpdatePeripheralList: (NSArray \*) peripherals RSSIList: (NSArray \*) rssiList  
[Parameter]
- peripherals: Peripheral List.
- rssiList: Rssi List.

## 1.8 POSbleConnectPeripheral

Peripheral connected succeeded.

- (void) POSbleConnectPeripheral: (CBPeripheral \*) peripheral  
[Parameter]
- peripheral: Device.

## 1.9 POSbleFailToConnectPeripheral

Peripheral connected failed.

- (void) POSbleFailToConnectPeripheral: (CBPeripheral \*) peripheral error: (NSError \*) error  
[Parameter]
- peripheral: Device.
- error: Connect error.

## 1.10 POSbleDisconnectPeripheral

Peripheral disconnected.

- (void) POSbleDisconnectPeripheral: (CBPeripheral \*) peripheral isAutoDisconnect: (BOOL \*) isAutoDisconnect  
[Parameter]
- peripheral: Device.
- isAutoDisconnect: Whether to automatically disconnect.

## 1.11 POSbleWriteValueForCharacteristic

Send data succeeded.

- (void) POSbleWriteValueForCharacteristic: (CBCharacteristic \*) character error: (NSError \*) error  
[Parameter]
- character: Device attributes.
- error: Send error.

## 1.12 POSbleReceiveValueForCharacteristic

receive data from printer.

- (void) POSbleReceiveValueForCharacteristic: (CBCharacteristic \*) character error: (NSError \*) error [Parameter]
- character: Device attributes.
- error: Receive error.

## WiFi:

## 2. Defined in the POSWIFIManager Class

### 2.1 sharedInstance

Singleton.

- (void) sharedInstance

### 2.2 connectWithHost

Connect a Printer.

- (void) connectWithHost: (NSString \*) hostStr port: (UInt16 \*) port [Parameter]
- hostStr: Connect printer ip address.
- port: Port Number.

### 2.3 disconnect

Disconnect a Printer.

- (void) disconnect

### 2.4 writeCommandWithData

Data printing.

- (void) writeCommandWithData: (NSData \*) data [Parameter]
- data: Data to print.

# POSWIFIManagerDelegate

## 2.5 POSwifiConnectedToHost

Connected a Printer.

- (void) POSwifiConnectedToHost: (NSString \*) host port: (UInt16) port  
[Parameter]
- host: IP Address.
- port: Port Number.

## 2.6 POSwifiDisconnectWithError

Disconnected a Printer.

- (void) POSwifiDisconnectWithError: (NSError \*) error  
[Parameter]
- error: error.

## 2.7 POSwifiDisconnectForManual

Disconnected a Printer for manual.

- (void) POSwifiDisconnectForManual

## 2.8 POSwifiWriteValueWithTag

Print successful.

- (void) POSwifiWriteValueSuccessWithTag:(long)tag

## 2.9 POSwifiReceiveValueForData

receive data from printer.

- (void) POSwifiReceiveValueForData:(NSData \*)data  
[Parameter]
- data: Printer data.

## 3. Defined in the PosCommand Class

### 3.1 initializePrinter

Initialize the printer.

- (NSData \*) initializePrinter

[Return value]

- NSData \*: Send data.

### 3.2 printAndFeedLine

Print and wrap.

- (NSData \*) printAndFeedLine

[Return value]

- NSData \*: Send data.

### 3.3 printAndBackStandardModel

Print and go back to standard mode.

- (NSData \*) printAndBackStandardModel

[Return value]

- NSData \*: Send data.

### 3.4 printAndTabs

Print and tab.

- (NSData \*) printAndTabs

[Return value]

- NSData \*: Send data.

### 3.5 canglePrintDataByPageModel

Cancel print data in page mode.

- (NSData \*) canglePrintDataByPageModel

[Return value]

- NSData \*: Send data.

### 3.6 printUnderPageModel

Printing in page mode.

- (NSData \*) printUnderPageModel
- [Return value]
- NSData \*: Send data.

### 3.7 setDefaultLineSpace

Set default line spacing.

- (NSData \*) setDefaultLineSpace
- [Return value]
- NSData \*: Send data.

### 3.8 setLeftSpaceWithnL

Set left margin.

- (NSData \*) setLeftSpaceWithnL:(int) nL andnH:(int) nH
- [Parameter]
- nL: 0 ~ 255
  - nH: 0 ~ 255
- (nL+nH\*256) print area width
- [Return value]
- NSData \*: Send data.

### 3.9 horizontalPosition

Horizontal positioning.

- (NSData \*) horizontalPosition
- [Return value]
- NSData \*: Send data.

### 3.10 selectPagemodel

Select page mode.

- (NSData \*) selectPagemodel
- [Return value]
- NSData \*: Send data.

### 3.11 selectFont

Select page mode.

- (NSData \*) selectFont: (int) n
- [Parameter]
- n:

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

[Return value]

- NSData \*: Send data.

### 3.12 selectInternationCharacterSets

Select international character set.

- (NSData \*) selectInternationCharacterSets: (int) n

[Parameter]

- 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

[Return value]

- NSData \*: Send data.

### 3.13 selectStabdardModel

Select standard mode

- (NSData \*) selectStabdardModel

[Return value]

- NSData \*: Send data.

### 3.14 printAndFeedForwardWhitN

Print and advance paper n lines.

- (NSData \*) printAndFeedForwardWhitN: (int) n

[Parameter]

- n: 0~255.

[Return value]

- NSData \*: Send data.

### 3.15 selectOrCancelInvertPrintModel

Select or cancel the black and white reverse print mode.

- (NSData \*) selectOrCancelInvertPrintModel: (int) n

[Parameter]

- n: 1: select; 0: cancel.

[Return value]

- NSData \*: Send data.

### 3.16 setHorizontalAndVerticalMoveUnitWithX

Set horizontal and vertical movement units.

- (NSData \*) setHorizontalAndVerticalMoveUnitWithX: (int) x andY:(int) y

[Parameter]

- x: horizontal, 0~255.

- y: vertical, 0~255

[Return value]

- NSData \*: Send data.

### 3.17 setBarcodeHeight

Set barcode height.

- (NSData \*) setBarcodeHeight: (int) n

[Parameter]

- n: 1~255, default: 162.

[Return value]

- NSData \*: Send data.

### 3.18 setBarcodeWidth

Set barcode width.

- (NSData \*) setBarcodeWidth: (int) n



[Parameter]

- n: 2~6, default: 3.

[Return value]

- NSData \*: Send data.

### 3.19 printBarcodeWithM

Print barcode.

- (NSData \*) printBarcodeWithM: (int) m andContent: (NSString \*) content

useEnCodeing: (NSStringEncoding) strEncoding

[Parameter]

- m:

0	UPC-A
1	UPC-E
2	JAN13 (EAN13)
3	JAN8 (EAB13)
4	CODE39
5	ITF
6	CODABAR

- content: barcode content.

- strEncoding: Character Encoding.

[Return value]

- NSData \*: Send data.

### 3.20 printRasteBmpWithM

Print raster bitmap.

- (NSData \*) printRasteBmpWithM: (PrintRasterType) m andImage: (UIImage \*) image

andType: (BmpType) type andPaperHeight: (int) paperheight

[Parameter]

- m:

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

- image: image

- type: Dithering: Binary method.

Threshold: Dithering method.

- paperheight: Paper height.

[Return value]

- NSData \*: Send data.

### 3.21 printerOrderBuzzingHintWithRes

Printer beeps for print.

- (NSData \*) printerOrderBuzzingHintWithRes: (int) n andTime: (int) t

[Parameter]

- n: Beeps count, 1~9.

- t: Beeps time, (1~9) \* 50ms.

[Return value]

- NSData \*: Send data.

### 3.22 selectAlignment

Set alignment.

- (NSData \*) selectAlignment: (int) n

[Parameter]

- n:

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

[Return value]

- NSData \*: Send data.

### 3.23 selectHRICharactersPrintPosition

Set HRI Character print position.

- (NSData \*) selectHRICharactersPrintPosition: (int) n

[Parameter]

- n:

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

[Return value]

- NSData \*: Send data.

### 3.24 setPrintAreaWidthWithnL

Set the print area width.

- (NSData \*) setPrintAreaWidthWithnL: (int) nL andnH:(int)nH

[Parameter]

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

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

(nL+nH\*256) print area width

[Return value]

- NSData \*: Send data.

### 3.25 printQRCode

Print QR code.

- (NSData \*) printQRCode: (int) n level:(int)errLevel code:(NSString \*)code useEnCodeing:

(NSStringEncoding)strEncoding

[Parameter]

- n: unit size 1~16

- errLevel:error correct level 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.

[Return value]

- NSData \*: Send data.

### 3.26 selectCutPageModelAndCutpage

Select the cut paper mode and cut the paper.

- (NSData \*) selectCutPageModelAndCutpage: (int) m

[Parameter]

- m:

0, 48	full cut
1, 49	half cut

[Return value]

- NSData \*: Send data.

### 3.27 creatCashBoxContorPulseWithM

Generate cash box control pulses.

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

[Parameter]

- m:

0, 48	pin 2
1, 49	pin 5

- t1: 0 ~ 255, default 30

- t2: 0 ~ 255, default 255

Cash drawer open pulse high level time [t1 \* 2ms], low level [t2 \* 2ms],

if t2 < t1, low level [t1 \* 2ms]

[Return value]

- NSData \*: Send data.