Android POS Program Manual

V3.1.9

1. Instruction

This manual describes how to implement ESC/POS printing. Constant variable are defined in POSConst class.

2. POSPrinter

2.1. POSPrinter

Constructor to create print objects.

POSPrinter(IDeviceConnection connection)

[Parameter]

Connection

Connected object, available via POSConnect.createDevice(deviceType).

2.2. printString

This function is used for text-printing. POSPrinter printString(String data)

[Parameter]

data

Printed text string

[Return]

POSPrinter Instance

2.3. printText

This function is used for format-specific text printing.

POSPrinter printText(String data, int alignment, int attribute, int textSize)

POSPrinter printTextSize(String data, int textSize)

POSPrinter printTextAttribute(String data, int attribute)

POSPrinter printTextAlignment(String data, int alignment)

[Parameter]

data

Printed text string

alignment

The alignment of the text, and the default is ALIGNMENT_LEFT

Note: When using alignment, data needs to end with "\n", otherwise it may become invalid.

Variable	Description
ALIGNMENT_LEFT	Align left
ALIGNMENT_CENTER	Align center
ALIGNMENT_RIGHT	Align right

> attribute

This value is text attributes. It sets text attributes to print. default is FNT_DEFAULT

Variable	Description
FNT_DEFAULT	FontA, Set up as a standard
FNT_FONTB	Set up as FontB
FNT_BOLD	bold font
FNT_REVERSE	Set up as reverse print attribute
FNT_UNDERLINE	Set up as Underline attribute
FNT_UNDERLINE2	Set up as Bold Underline attribute

textSize

The font size of the printed text font, default is TXT_1WIDTH|TXT_1HEIGHT

Variable(Set up width ratio)	Description
TXT_1WIDTH	Set up width ratio as x1
TXT_2WIDTH	Set up width ratio as x2
TXT_3WIDTH	Set up width ratio as x3
TXT_4WIDTH	Set up width ratio as x4
TXT_5WIDTH	Set up width ratio as x5
TXT_6WIDTH	Set up width ratio as x6
TXT_7WIDTH	Set up width ratio as x7
TXT_8WIDTH	Set up width ratio as x8

Variable(Set up height ratio)	Description
TXT_1HEIGHT	Set up height ratio as x1
TXT_2HEIGHT	Set up height ratio as x2
TXT_3HEIGHT	Set up height ratio as x3
TXT_4HEIGHT	Set up height ratio as x4
TXT_5HEIGHT	Set up height ratio as x5
TXT_6HEIGHT	Set up height ratio as x6
TXT_7HEIGHT	Set up height ratio as x7
TXT_8HEIGHT	Set up height ratio as x8

[Return]

2.4. printBitmap

This function is used for printing image files. This method does not support 76 impact printers.

POSPrinter printBitmap(String bitmapPath, int alignment, int width)

POSPrinter printBitmap(String bitmapPath, int alignment, int width, int model)

POSPrinter printBitmap(Bitmap bmp, int alignment, int width)

POSPrinter printBitmap(Bitmap bmp, int alignment, int width, int model)

[Parameter]

bitmapPath

with full path of bitmap file.

> bmp

Android Bitmap Object.

alignment

The alignment mode of the pictures.

Variable	Description
ALIGNMENT_LEFT	Align left
ALIGNMENT_CENTER	Align center
ALIGNMENT_RIGHT	Align right

> width

Print the picture width.

model

Print mode

Variable	Description
BMP_NORMAL	Original(Normal) size
BMP_WIDTH_DOUBLE	Double width
BMP_HEIGHT_DOUBLE	Double height
BMP_WIDTH_HEIGHT_DOUBLE	Double size

[Return]

POSPrinter Instance

2.5. printBarCode

This function is used for supporting barcode printing.

POSPrinter printBarCode(String data, int codeType)

POSPrinter printBarCode(String data, int codeType, int width, int height, int alignment)

POSPrinter printBarCode(String data, int codeType, int width, int height, int alignment, int textPosition)

[Parameter]

data

Barcode string to be printed

codeType

Barcode type

Variable	Description
BCS_UPCA	UPC A
BCS_UPCE	UPCE
BCS_EAN8	EAN-8
BCS_EAN13	EAN-13
BCS_JAN8	JAN-8
BCS_JAN13	JAN-13
BCS_ITF	ITF
BCS_Codabar	Codabar
BCS_Code39	Code 39
BCS_Code93	Code 93
BCS_Code128	Code 128, For this type, the data must be
	added with {A, {B, {C, etc

➤ height

Barcode height, range [1,255]. Default is 162

width

This values barcode width in Dot Units, range [2, 6], Default is 3

alignment

It sets barcode alignment, Default is ALIGNMENT_CENTER

Variable	Description
ALIGNMENT_LEFT	Align left
ALIGNMENT_CENTER	Align center
ALIGNMENT_RIGHT	Align right

textPosition

This value is printing position of barcode HRI letters(barcode data). Default is HRI_TEXT_BELOW.

Variable	Description
HRI_TEXT_NONE	Do not print barcode data
HRI_TEXT_ABOVE	Print barcode data above the barcode
HRI_TEXT_BELOW	Print barcode data below the barcode
HRI_TEXT_BOTH	Print barcode data top and bottom

[Return]

2.6. feed

This function is used for sending feeding command to printer.

POSPrinter feedLine(int lineCount)

POSPrinter feedLine()

POSPrinter feedDot(int dotCount)

[Parameter]

lineCount

This value is the number of lines for line feeding. Default is 1

dotCount

This value is the number of point for line feeding.

[Return]

POSPrinter Instance

2.7. printQRCode

This function is used for supporting QRCode barcode printing.

POSPrinter printQRCode(String data)

POSPrinter printQRCode(String data, int alignment)

POSPrinter printQRCode(String data, int moduleSize, int alignment)

POSPrinter printQRCode(String data, int moduleSize, int ecLevel, int alignment)

[Parameter]

data

QRCode data to print

moduleSize

Module size. Range[1, 16], Default is 8.

ecLevel

Error Correction Level, Default is QRCODE_EC_LEVEL_L

Variable	Description
QRCODE_EC_LEVEL_L	Error correction Level L (7%)
QRCODE_EC_LEVEL_M	Error correction Level M (15%)
QRCODE_EC_LEVEL_Q	Error correction Level Q (25%)
QRCODE_EC_LEVEL_H	Error correction Level H (30%)

alignment

It sets QRCode alignment, Default is ALIGNMENT_CENTER

Variable	Description
ALIGNMENT_LEFT	Align left

ALIGNMENT_CENTER	Align center
ALIGNMENT_RIGHT	Align right

[Return]

POSPrinter Instance

2.8. cutPaper

This method is used for cutting the paper

POSPrinter cutPaper()

POSPrinter cutPaper(int model)

POSPrinter cutHalfAndFeed(int distance)

Feed paper distance, and half cut paper.

[Parameter]

> model

Cut paper mode, Default is CUT_HALF.

Variable	Description
CUT_ALL	Full cut
CUT_HALF	Half cut

distance

Feed distance

[Return]

POSPrinter Instance

2.9. openCashBox

Open a cash drawer.

POSPrinter openCashBox(int pinNum)

POSPrinter openCashBox(int pinNum, int onTime, int offTime)

[Parameter]

> pinNum

Pin number to generate pulse.

Variable	Description
PIN_TWO	PIN 2
PIN_FIVE	PIN 5

onTime

Start tilme to generate pulse. onTime*2ms, range [0,255], Default is 30

offTime

Stop time to generate pulse. offTime*2ms, range [0,255], Default is 255

[Return]

POSPrinter Instance

2.10. setCharSet

Set character encoding, Default is "gbk" void setCharSet(String charSet)

[Parameter]

charSet

Character set name.

2.11. setTextStyle

This function is used for set the font style.

POSPrinter setTextStyle(int attribute, int textSize)

[Parameter]

attribute

This value is text attributes. It sets text attributes to print. default is FNT_DEFAULT

Variable	Description
FNT_DEFAULT	FontA, Set up as a standard
FNT_FONTB	Set up as FontB
FNT_BOLD	bold font
FNT_REVERSE	Set up as reverse print attribute
FNT_UNDERLINE	Set up as Underline attribute
FNT_UNDERLINE2	Set up as Bold Underline attribute

textSize

The font size of the printed text font, default is TXT_1WIDTH|TXT_1HEIGHT

	_ = =
Variable(Set up width ratio)	Description
TXT_1WIDTH	Set up width ratio as x1
TXT_2WIDTH	Set up width ratio as x2
TXT_3WIDTH	Set up width ratio as x3
TXT_4WIDTH	Set up width ratio as x4
TXT_5WIDTH	Set up width ratio as x5
TXT_6WIDTH	Set up width ratio as x6
TXT_7WIDTH	Set up width ratio as x7

TXT_8WIDTH	Set up width ratio as x8
------------	--------------------------

Variable(Set up height ratio)	Description
TXT_1HEIGHT	Set up height ratio as x1
TXT_2HEIGHT	Set up height ratio as x2
TXT_3HEIGHT	Set up height ratio as x3
TXT_4HEIGHT	Set up height ratio as x4
TXT_5HEIGHT	Set up height ratio as x5
TXT_6HEIGHT	Set up height ratio as x6
TXT_7HEIGHT	Set up height ratio as x7
TXT_8HEIGHT	Set up height ratio as x8

[Return]

POSPrinter Instance

2.12. setAlignment

This method is used for set up the alignment of the text POSPrinter setAlignment(int alignment)

[Parameter]

alignment

The alignment of the text, and the default is ALIGNMENT_LEFT

Variable	Description
ALIGNMENT_LEFT	Align left
ALIGNMENT_CENTER	Align center
ALIGNMENT_RIGHT	Align right

[Return]

POSPrinter Instance

2.13. printerCheck

This function is used for query all of the printer states. void printerCheck(int type, int timeout, IDataCallback callback)

[Parameter]

> type

Variable	Description
STS_TYPE_PRINT	Print state

STS_TYPE_OFFLINE	off-line state
STS_TYPE_ERR	Error state
STS_TYPE_PAPER	Transfer paper state

> timeout

Receive timeout, Unit is ms

> callback

Read the data callback, the callback content is the corresponding printer state, if the data is not received in the timeout time, then the empty byte is returned.

```
public interface IDataCallback {
    void receive(byte[] data);
}
```

2.14. printerStatus

This method is used to query the common state of the printer, Timeout time is 5000ms void printerStatus(IStatusCallback callback)

The status-values are shown in the table below.

Less than 0	-1 Other errors -3: Connection disconnected -4:
	Receiving data timed out
STS_NORMAL	The printer is normal
STS_COVEROPEN	Cover open
STS_PAPEREMPTY	Printer lack of paper
STS_PRESS_FEED	Press the paper feed button
STS_PRINTER_ERR	printer error

2.15. cashBoxCheck

This method is used to query the cash drawer status. void cashBoxCheck(IStatusCallback callback)

```
void receive(int status);
```

The status-values are shown in the table below.

STS_UNKNOWN	Unknown state, read data timeout or received
	data length is not 1.
STS_CASH_OPEN	Cash drawer is open.
STS_CASH_CLOSE	Cash drawer is close.

2.16. setPrintArea

Set up the print area in page mode.

POSPrinter setPrintArea(int x, int y, int width, int height)

POSPrinter setPrintArea(int width, int height)

[Parameter]

> x

}

The x-coordinate of the starting position, Default is 0.

> ر

The y-coordinate of the starting position, Default is 0.

> width

Width of printing area.

➢ height

Height of printing area.

[Return]

POSPrinter Instance

2.17. setPageModel

Change to page mode or standard mode.

POSPrinter setPageModel(boolean isOpen)

[Parameter]

isOpen

Enable or Disable page mode. (TRUE, FALSE)

[Return]

2.18. printPageModelData

Print and return to standard mode in page mode. POSPrinter printPageModelData()

[Return]

POSPrinter Instance

2.19. setPrintDirection

Select print direction in page mode.
POSPrinter setPrintDirection(int direction)

[Parameter]

direction

Print direction

Variable	Description
DIRECTION_LEFT_TOP	From top left to right
DIRECTION_LEFT_BOTTOM	From bottom left to top
DIRECTION_RIGHT_BOTTOM	From bottom right to top
DIRECTION_RIGHT_TOP	From top right to bottom

[Return]

POSPrinter Instance

2.20. setAbsoluteHorizontal

Set absolute horizontal print position . (X axis) POSPrinter setAbsoluteHorizontal(int position)

[Parameter]

position

Starting position.

[Return]

2.21. setRelativeHorizontal

Set relative horizontal print position. (X axis) POSPrinter setRelativeHorizontal(int position)

[Parameter]

position

Starting position.

[Return]

POSPrinter Instance

2.22. setAbsoluteVertical

Set absolute vertical print position in page mode. (Y axis) POSPrinter setAbsoluteVertical(int position)

[Parameter]

position

Starting position.

[Return]

POSPrinter Instance

2.23. setRelativeVertical

Set relative vertical print position in page mode. (Y axis) POSPrinter setRelativeVertical(int position)

[Parameter]

position

Starting position.

[Return]

2.24. downloadNVImage

This function is used for save the NV images in flash.

POSPrinter downloadNVImage(String imagePaths, int imageWidth)

POSPrinter downloadNVImage(List<Bitmap> bitmaps, int imageWidth)

[Parameter]

imagePaths

It sets the absolute path of the image files.

", = separator

(Example: "/storage/emulated/0/tmp/logo1.bmp,/storage/emulated/0/tmp/logo2.bmp")

bitmaps

The bitmap list

imageWidth

This value is image width.

[Return]

POSPrinter Instance

2.25. printNVImage

This function is used to support the Bitmap Image printing stored in Flash Memory. POSPrinter printNVImage(int index, int model)

[Parameter]

> index

It sets the index image stored in Flash Memory to print,range[1,255]

model

Print model

Variable	Description
BMP_NORMAL	Normal size
BMP_WIDTH_DOUBLE	Double width
BMP_HEIGHT_DOUBLE	Double height
BMP_WIDTH_HEIGHT_DOUBLE	Double size

[Return]

2.26. initializePrinter

Initialize Printer, This function clears the print buffer data. POSPrinter initializePrinter()

[Return]

POSPrinter Instance

2.27. selectBitmapModel

Select bitmap model

POSPrinter selectBitmapModel(int model, int width, Bitmap bmp)

[Parameter]

model

Bitmap model

Variable	Description
SINGLE_DENSITY_8	8-point single density
DOUBLE_DENSITY_8	8-point double density
SINGLE_DENSITY_24	24-point single density(76 impact printers does not support)
DOUBLE_DENSITY_24	24-point double density(76 impact printers does not support)

> width

Print the picture width.

▶ bmp

Bitmap image

[Return]

POSPrinter Instance

2.28. printAndFeed

Print buffer data and run n points POSPrinter printAndFeed(int n)

[Parameter]

➤ n

The paper distance, in horizontal or vertical moving units. The default is point.

[Return]

2.29. setLineSpacing

```
Set line-height
```

POSPrinter setLineSpacing(int space)

> space

Line-height, If you want to restore to the default height, use SPACE_DEFAULT.

[Return]

POSPrinter Instance

2.30. isConnect

```
Query connection status void isConnect(IStatusCallback callback)
```

```
[Parameter]
```

> callback

}

Status callback.

 $public\ interface\ IStatus Callback\ \{$

void receive(int status);

,	
status	Description
STS_CONNECT	connect
STS_DISCONNECT	disconnect

2.31. setTurnUpsideDownMode

Select / cancel the inverted printing mode.

POSPrinter setTurnUpsideDownMode(boolean on)

[Parameter]

> on

True indicates selection, false indicates cancel.

[Return]

POSPrinter Instance

2.32. selectCodePage

Select character code page

POSPrinter selectCodePage(int page)

[Parameter]

page

Code page

Value	Description	Value	Description
0	PC437(Std.Europe)	56	PC861(Icelandic)
1	Katakana	57	PC863(Canadian)
2	PC850(Multilingual)	58	PC865(Nordic)
3	PC860(Portugal)	59	PC866(Russian)
4	PC863(Canadian)	60	PC855(Bulgarian)
5	PC865(Nordic)	61	PC857(Turkey)
6	West Europe	62	PC862(Hebrew)
7	Greek	63	PC864(Arabic)
8	Hebrew	64	PC737(Greek)
9	East Europe	65	PC851(Greek)
10	Iran	66	PC869(Greek)
16	WPC1252	67	PC928(Greek)
17	PC866(Cyrillic#2)	68	PC772(Lithuanian)
18	PC852(Latin2)	69	PC774(Lithuanian)
19	PC858	70	PC874(Thai)
20	Iranll	71	WPC1252(Latin-1)
21	Latvian	72	WPC1250(Latin-2)
22	Arabic	73	WPC1251(Cyrillic)
23	PT1511251	74	PC3840(IBM-Russian)
24	PC747	75	PC3841(Gost)
25	WPC1257	76	PC3843(Polish)
27	Vietnam	77	PC3844(CS2)
28	PC864	78	PC3845(Hungarian)
29	PC1001	79	PC3846(Turkish)
30	Uigur	80	PC3847(Brazil-ABNT)
31	Hebrew	81	PC3848(Brazil)
32	WPC1255(Israel)	82	PC1001(Arabic)
255	Thai	83	PC2001(Lithuan)
33	WPC1256	84	PC3001(Estonian-1)
50	PC437(Std.Europe)	85	PC3002(Eston-2)
51	Katakana	86	PC3011(Latvian-1)
52	PC437(Std.Europe)	87	PC3012(Tatv-2)
53	PC858(Multilingual)	88	PC3021(Bulgarian)
54	PC852(Latin-2)	89	PC3041(Maltese)
55	PC860(Portuguese)		

[Return]

2.33. selectCharacterFont

Select font

POSPrinter selectCharacterFont(int font)

[Parameter]

➤ font

Font type

Variable	Description
FONT_STANDARD	Standard ascii font (12 × 24)
FONT_COMPRESS	Compress ASCII font (9 × 17)

[Return]

POSPrinter Instance

2.34. setCharRightSpace

Set the right spacing of characters POSPrinter setCharRightSpace(byte space)

[Parameter]

> space

Right spacing distance is space*hor_motion_unit

[Return]

POSPrinter Instance

2.35. printPDF417

This method is used for supporting PDF417 barcode printing.

POSPrinter printPDF417(String pdfData)

POSPrinter printPDF417(String pdfData, int cellWidth, int cellHeightRatio, int numberOfColumns, int numberOfRows, int eclType, int eclValue, int alignment)

pdfData

Barcode data to print.

> cellWidth

```
Cell width.
```

Range[2-8].

cellHeightRatio

Cell height ratio. [Cell height = [cellHeightRatio × cellWidth].

Range[2 - 8].

cell height = cellHeightRatio x cellWidth

numberOfColumns

Set the number of columns.

Range : [0 - 30].

numberOfRows

Set the number of columns.

Range : [0 - 30].

eclType

Set the error correction level.

Range[0 - 1].

0= The error correction level is set by "level"

1= The error correction level is set by "ratio." The ratio is [eclValue \times 10%].

- eclValue
- Set the error correction level.

eclType = 0 : Range[0 - 8].

eclType = 1 : Range[1 - 40].

alignment

This value is alignment. It sets barcode alignment.

Variable	Description
ALIGNMENT_LEFT	Align left
ALIGNMENT_CENTER	Align center
ALIGNMENT_RIGHT	Align right

[Return]

POSPrinter Instance

2.36. sendData

This function is used to send data to the printer.

POSPrinter sendData(byte[] data);

POSPrinter sendData(List<byte[]> datas);

[Parameter]

> data

Byte array to be sent

datas

Byte array collection to be sent

[Return]

POSPrinter Instance

2.36. printTable

Print table

POSPrinter printTable(PTable table)

[Parameter]

> table

Table objects to be printed, See PTable

[Return]

POSPrinter Instance

2.37. wifiConfig

Set up printer Wi-Fi

void wifiConfig(byte[] ip, byte[] mask, byte[] gateway, String ssid, String password, byte encrypt)

[Parameter]

➢ ip

ip address, a byte array of length 4.eg:new byte[]{(byte)192,(byte)168,1,100}

mask

Subnet mask, byte array of length 4.

gateway

default gateway, byte array of length 4.

ssid

Wi-Fi name, cannot be empty.

password

Wi-Fi password.

encrypt

encryption type.

Variable	Description
ENCRYPT_NULL	NULL
ENCRYPT_WEP64	WEP64
ENCRYPT_WEP128	WEP128
ENCRYPT_WPA_AES_PSK	WPA_AES_PSK
ENCRYPT_WPA_TKIP_PSK	WPA_TKIP_PSK
ENCRYPT_WPA_TKIP_AES_PSK	WPA_TKIP_AES_PSK
ENCRYPT_WPA2_AES_PSK	WPA2_AES_PSK

ENCRYPT_WPA2_TKIP	WPA2_TKIP
ENCRYPT_WPA2_TKIP_AES_PSK	WPA2_TKIP_AES_PSK
ENCRYPT_WPA_WPA2_MixedMode	WPA_WPA2_MixedMode

[Return] void

2.38. setlp

set network ip address. boolean setIp(byte[] ip)

[Parameter]

≻ ip

ip address, a byte array of length 4.eg:new byte[]{(byte)192,(byte)168,1,100}

[Return]

void

2.39. setMask

set subnet mask.
void setMask(byte[] mask)

[Parameter]

mask

Subnet mask, byte array of length 4.

[Return]

void

2.40. setGateway

set default gateway
void setGateway(byte[] gateway)

[Parameter]

gateway

Default gateway, a byte array of length 4.

2.41. setNetAll

Set up network configuration void setNetAll(byte[] ip, byte[] mask, byte[] gateway, boolean dhcpIsOpen)

[Parameter]

ip

ip address, a byte array of length 4.eg:new byte[]{(byte)192,(byte)168,1,100}

mask

Subnet mask, byte array of length 4.

gateway

default gateway, byte array of length 4.

dhcplsOpen

Set whether to enable DHCP. true to open false to close.

[Return]

void

2.42. setBluetooth

Set Bluetooth information void setBluetooth(String name, String pin)

[Parameter]

name

bluetooth name

▶ pin

bluetooth pin code

[Return]

void

2.43. getSerialNumber

Obtain the serial number of the printer void getSerialNumber(IDataCallback callback)

[Parameter]

callback

```
Get the SN code queried by callback.
public interface IDataCallback {
    void receive(byte[] data);
}
[Return]
void
```

3. PTable

For table printing, The column width of the table is calculated by taking single byte characters as a unit, for example, the width of the letter 'a' is 1, and the width of the Chinese ' \Box ' is 2. If a new line is needed, '\n' can be added to the text. If the text width is greater than the set column width, the line will wrap automatically.

3.1. PTable

```
Constructor
```

PTable(String[] titles, Integer[] numberOfSingleBytesPerCol)
PTable(String[] titles, Integer[] numberOfSingleBytesPerCol, Integer[] align)

[Parameter]

> titles

Header array collection

numberOfSingleBytesPerCol

Set of single byte characters in each column

align

The alignment of each column, 0 is left-aligned and 1 is right-aligned. Default is 0.

[Return]

PTable Instance

3.2. addRow

```
add rows
PTable addRow(String... row)
PTable addRow(String title, String[] row)
PTable addRow(String title, String[] row, String remark)
```

[Parameter]

➤ title

The title of each row. If it is empty, there will be no title. The default is empty.

row

Character set of the line

> remark

The comments after each line, if empty, there will be no comments, and the default is empty.

tem	QTY	Price	Total
Apple Apple >	(XXXXXX	7.99	7.99
00328 emarks:xxxx	(XXX	remark	1,100
80015	4	0.99	3.96
02501102501	1	43.99	43.99
02501		4.00	4.99
21048	1	4.99	4.00

[Return]

PTable Instance

4. TableBarcode

Barcode auxiliary class in table row attributes.

4.1. TableBarcode

Constructor

TableBarcode(String data, int codeType)

TableBarcode(String data, int codeType, int height)

TableBarcode(String data, int codeType, int width, int height, int alignment)

TableBarcode(String data, int codeType, int width, int height, int alignment, int textPosition)

[Parameter]

> data

Barcode string to be printed

codeType

Barcode type

Variable	Description
BCS_UPCA	UPC A
BCS_UPCE	UPCE

BCS_EAN8	EAN-8
BCS_EAN13	EAN-13
BCS_JAN8	JAN-8
BCS_JAN13	JAN-13
BCS_ITF	ITF
BCS_Codabar	Codabar
BCS_Code39	Code 39
BCS_Code93	Code 93
BCS_Code128	Code 128, For this type, the data must be
	added with {A, {B, {C, etc

➤ height

Barcode height, range [1,255]. Default is 80

➤ width

This values barcode width in Dot Units, range [2, 6], Default is 2

alignment

It sets barcode alignment, Default is ALIGNMENT_LEFT

Variable	Description
ALIGNMENT_LEFT	Align left
ALIGNMENT_CENTER	Align center
ALIGNMENT_RIGHT	Align right

textPosition

This value is printing position of barcode HRI letters(barcode data). Default is HRI_TEXT_BELOW.

Variable	Description
HRI_TEXT_NONE	Do not print barcode data
HRI_TEXT_ABOVE	Print barcode data above the barcode
HRI_TEXT_BELOW	Print barcode data below the barcode
HRI_TEXT_BOTH	Print barcode data top and bottom

[Return]

POSPrinter TableBarcode

5. PosUdpNet

POS printer Udp message sending and receiving class, through which the printer device connected to the network port in the LAN can be realized and the network information can be modified.

4.1. searchNetDevice

Search for printing devices in the local area network void searchNetDevice(UdpCallback callback)

4.2. udpNetConfig

Modify the network port information of the printing device through UDP static void udpNetConfig(byte[] macAddress, byte[] ipAddress, byte[] mask, byte[] gateway, boolean dhcp)

```
[Parameter]

➤ macAddress

MAC address of the device

➤ ipAddress

Ip address

➤ mask

subnet mask

➤ gateway

default gateway

➤ dhcp

Whether to enable dhcp

[Return]

void
```