



ZQ110

Mobile Printer iOS SDK API Reference Guide

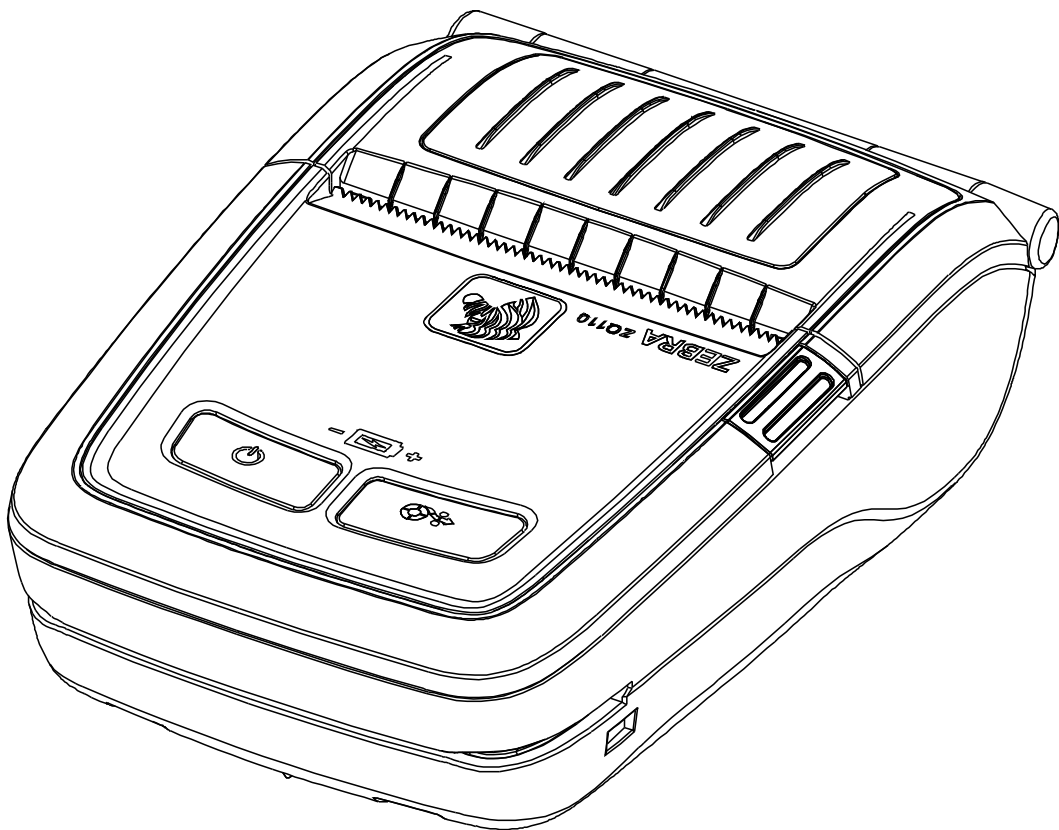


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1. Manual Information

This iOS SDK API Reference Guide contains the descriptions of the Library required for the applications program development.

1-1 Supported Platform & Development Environment

- Platform

- iOS 5.1.1 or higher

1-2 Supported Platform & Supported Devices

Compatibility of the following devices was verified:

- iPhone 4G / 5G / 5GS
- iPad2 / iPad mini

1-3 Supported Properties List

Method/Property	Mobile Printer (ZQ110)
Version	Supported
delegate	Supported
Target	Supported
lookupDuration	Supported
lookupCount	Supported
alignment	Supported
attribute	Supported
textSize	Not supported
characterSet	Supported
internationalCharacterSet	Supported
State	Supported
Power	Supported
AutoConnection	Supported

1-4 Supported Properties List

Method/Property	Mobile Printer (ZQ110)
getInstance	Supported
open	Supported
close	Supported
lookup	Supported
selectTarget	Supported
connect	Supported
disconnect	Supported
disconnectWithTimeout	Supported
isConnected	Supported
enableLSB	Not supported
printText	Supported
printBox	Supported
lineFeed	Supported
nextPrintPos	Supported
printBarcode	Supported
printBitmap	Supported
checkPrinter	Supported
msrReadReady	Supported
msrReadCancel	Supported
msrReadCancelEx	Supported
msrReadTrack	Supported
msrGetTrack	Supported
msrReadFullTrack	Supported
directIO	Supported
nvImageList	Supported
downloadNVImage (Diffusion)	Supported
downloadNVImage (Normal)	Supported
printNVImage	Supported
removeNVImage	Supported
removeAllNVImages	Supported
isSupport_MSR	Supported
isSupport_LSB	Supported
isSupport_Barcode	Supported
getBarcodeSupportTable	Supported

2. Constant Definition

Constants used in the SDK are defined in the “BXCode.h” file.

2-1 Character Set

The following table defines the available code page values. The default value is set to BXL_CS_437.

Code	Value	Description
BXL_CS_PC437	0	Code page PC437
BXL_CS_Katakana	1	Katakana
BXL_CS_PC850	2	Code page PC850(Multilingual)
BXL_CS_PC860	3	Code page PC860(Portuguese)
BXL_CS_PC863	4	Code page PC863(Canadial-French)
BXL_CS_PC865	5	Code page PC865(Nordic)
BXL_CS_PC1252	16	Code page PC1252 (Latin 1)
BXL_CS_PC866	17	Code page PC866(Cyrillic #2)
BXL_CS_PC852	18	Code page PC852 (Latin 2)
BXL_CS_PC858	19	Code page PC858 (Euro)
BXL_CS_PC864	22	Code page PC864 (Hebrew DOS code)
BXL_CS_PC862	21	Code page PC862(Hebrew Old code)
BXL_CS_THAI42	23	Code page THAI42
BXL_CS_WPC1253	24	Code page WPC1253 (Breek)
BXL_CS_WPC1254	25	Code page WPC1254 (Turkish)
BXL_CS_WPC1257	26	Code page WPC1257 (Baltic)
BXL_CS_FARSI	27	Code page FARSI
BXL_CS_WPC1251	28	Code page WPC1251(Cyrillic)
BXL_CS_PC737	29	Code page PC737(Greek)
BXL_CS_PC775	30	Code page PC775(Baltic)
BXL_CS_THAI14	31	Code page THAI14
BXL_CS_HEBREW	32	Code page Hebrew Old code
BXL_CS_WPC1255	33	Code page PC1255(Hebrew New code)
BXL_CS_THAI11	34	Code page PC855(Thai11)
BXL_CS_THAI18	35	Code page PC857(Thai18)
BXL_CS_PC855	36	Code page PC855 (Cyrillic)
BXL_CS_PC857	37	Code page PC857 (Turkish)
BXL_CS_PC928	38	Code page PC928 (Greek)
BXL_CS_THAI16	39	Code page THAI16
BXL_CS_WPC1256	40	Code page WPC1256 (Arabic)
BXL_CS_PC857	37	Code page WPC1258(Vietnam)
BXL_CS_PC928	38	Code page Khmer(Cambodia)
BXL_CS_THAI16	47	Code page WPC1250(Czech)
BXL_CS_WPC1252	48	Code page WPC1252(Latin 9)
BXL_CS_USER	255	User set page

2-2 International Character Set

The following table defines the available international character set. The default value is set to BXL_ICS_USA.

Code	Value	Description
BXL_ICS_USA	0	U.S.A.
BXL_ICS_FRANCE	1	France
BXL_ICS_GERMANY	2	Germany
BXL_ICS_UK	3	U.K.
BXL_ICS_DENMARK1	4	Denmark I
BXL_ICS_SWEDEN	5	Sweden
BXL_ICS_ITALY	6	Italy
BXL_ICS_SPAIN	7	Spain
BXL_ICS_NORWAY	9	Norway
BXL_ICS_DENMARK2	10	Denmark II
BXL_ICS_SPAIN2	11	SPAIN2
BXL_ICS_LATIN_AMERICA	12	Latin America
BXL_ICS_KOREA	13	Korea

2-3 Barcode/Image/Text Alignment

The following table defines the available bar code/image/text alignment. The default value is set to BXL_ALIGNMENT_LEFT.

Code	Value	Description
BXL_ALIGNMENT_LEFT	0	Left align
BXL_ALIGNMENT_CENTER	1	Center align
BXL_ALIGNMENT_RIGHT	2	Right align

2-4 Text Size

The following table defines the available settings for the text size, and horizontal and vertical ratio can be defined simultaneously with the OR operation.

Code	Value	Description
BXL_TS_0WIDTH	0	Set the ratio of horizontal width to X1
BXL_TS_1WIDTH	16	Set the ratio of horizontal width to X2
BXL_TS_2WIDTH	32	Set the ratio of horizontal width to X3
BXL_TS_3WIDTH	48	Set the ratio of horizontal width to X4
BXL_TS_4WIDTH	64	Set the ratio of horizontal width to X5
BXL_TS_5WIDTH	80	Set the ratio of horizontal width to X6
BXL_TS_6WIDTH	96	Set the ratio of horizontal width to X7
BXL_TS_7WIDTH	112	Set the ratio of horizontal width to X8

Code	Value	Description
BXL_TS_0HEIGHT	0	Set the ratio of vertical height to X1
BXL_TS_1HEIGHT	16	Set the ratio of vertical height to X2
BXL_TS_2HEIGHT	32	Set the ratio of vertical height to X3
BXL_TS_3HEIGHT	48	Set the ratio of vertical height to X4
BXL_TS_4HEIGHT	64	Set the ratio of vertical height to X5
BXL_TS_5HEIGHT	80	Set the ratio of vertical height to X6
BXL_TS_6HEIGHT	96	Set the ratio of vertical height to X7
BXL_TS_7HEIGHT	112	Set the ratio of vertical height to X8

2-5 Text Attribute

The following table defines available text properties. Each property can be combined with the OR operation.

Code	Value	Description
BXL_FT_DEFAULT	0	Default setting NOT BOLD, FONTA, NOT UNDERLINE, NOT REVERSE
BXL_FT_FONTB	1	Use FONTB
BXL_FT_FONTC	16	Use FONTC
BXL_FT_BOLD	2	Use Bold font
BXL_FT_UNDERLINE	4	Set Underline property
BXL_FT_REVERSE	8	Set Reverse property

2-6 Barcode Text Position

The following table defines the available barcode text positions (the position where barcode data is printed in relation to the barcode).

Code	Value	Description
BXL_BC_TEXT_NONE	0	Do not print barcode data
BXL_BC_TEXT_ABOVE	1	Print bar code data above barcode
BXL_BC_TEXT_BELOW	2	Print bar code data below barcode

2-7 Barcode Symbology

The following table defines the available bar code types.

Code	Value	Number of data	Range of data
BXL_BCS_UPCA	101	11 ≤ n ≤ 12	48 ≤ data ≤ 57
BXL_BCS_UPCE	102	11 ≤ n ≤ 12	48 ≤ data ≤ 57
BXL_BCS_EAN13	103	12 ≤ n ≤ 13	48 ≤ data ≤ 47
BXL_BCS_JAN13	104	7 ≤ n ≤ 8	48 ≤ data ≤ 57 64 ≤ data ≤ 90 data = 32,36,37,43,45,46,47
BXL_BCS_EAN8	105	7 ≤ n ≤ 8	48 ≤ data ≤ 57
BXL_BCS_JAN8	106	7 ≤ n ≤ 8	48 ≤ data ≤ 57
BXL_BCS_Code39	107	1 ≤ n ≤ 255	48 ≤ data ≤ 57 65 ≤ data ≤ 68 data = 32,36,37,43,45,46,47
BXL_BCS_ITF	108	1 ≤ n ≤ 255 (Even)	48 ≤ data ≤ 57
BXL_BCS_Codabar	109	1 ≤ n ≤ 255	48 ≤ data ≤ 57 65 ≤ data ≤ 68 data = 36,43,45,46,47,58
BXL_BCS_Code93	110	1 ≤ n ≤ 255	0 ≤ data ≤ 127
BXL_BCS_Code128	111	2 ≤ n ≤ 255	0 ≤ data ≤ 127
BXL_BCS_PDF417	200	2 ≤ n ≤ 928	0 ≤ data ≤ 255
BXL_BCS_QRCODE_MODEL1	202	2 ≤ n ≤ 928	0 ≤ data ≤ 255
BXL_BCS_QRCODE_MODEL2	203	2 ≤ n ≤ 928	0 ≤ data ≤ 255
BXL_BCS_DATAMATRIX	204	2 ≤ n ≤ 928	0 ≤ data ≤ 255
BXL_BCS_GS1_RSS14	208	0 ≤ GTINn ≤ 13 0 ≤ Aln ≤ 164	48 ≤ GTIN ≤ 57 0 ≤ AI ≤ 255
BXL_BCS_GS1_RSS14TRUNCATED	209	0 ≤ GTINn ≤ 13 0 ≤ Aln ≤ 164	48 ≤ GTIN ≤ 57 0 ≤ AI ≤ 255
BXL_BCS_GS1_RSS14STACKED	210	0 ≤ GTINn ≤ 13 0 ≤ Aln ≤ 45	48 ≤ GTIN ≤ 57 0 ≤ AI ≤ 255
BXL_BCS_GS1_RSS14STACKED OMNIDIRECTIONAL	211	0 ≤ GTINn ≤ 13 0 ≤ Aln ≤ 45	48 ≤ GTIN ≤ 57 0 ≤ AI ≤ 255
BXL_BCS_GS1_UPCA	214	0 ≤ GTINn ≤ 12 0 ≤ Aln ≤ 164	48 ≤ GTIN ≤ 57 0 ≤ AI ≤ 255
BXL_BCS_GS1_UPCE	215	0 ≤ GTINn ≤ 13 0 ≤ Aln ≤ 46	48 ≤ GTIN ≤ 57 0 ≤ AI ≤ 255
BXL_BCS_GS1_EAN13	216	0 ≤ GTINn ≤ 12 0 ≤ Aln ≤ 164	48 ≤ GTIN ≤ 57 0 ≤ AI ≤ 255
BXL_BCS_GS1_EAN8	217	0 ≤ GTINn ≤ 12 0 ≤ Aln ≤ 106	48 ≤ GTIN ≤ 57 0 ≤ AI ≤ 255
BXL_BCS_GS1_EAN128CC_AB	218	0 ≤ GTINn ≤ 48 0 ≤ Aln ≤ 164	48 ≤ GTIN ≤ 57 0 ≤ AI ≤ 255
BXL_BCS_GS1_EAN128CC_C	219	0 ≤ GTINn ≤ 48 0 ≤ Aln ≤ 164	48 ≤ GTIN ≤ 57 0 ≤ AI ≤ 255
BXL_BCS_AZTEC_DATA	220	0 ≤ Aln ≤ 300	0 ≤ data ≤ 255
BXL_BCS_AZTEC_GS1	221	0 ≤ Aln ≤ 300	0 ≤ data ≤ 255
BXL_BCS_AZTEC_LATIN1	222	0 ≤ Aln ≤ 300	0 ≤ data ≤ 255

2-8 Image Width

The following table defines the available settings for resizing the width of an image. The valid range is 0 to maximum width.

Code	Value	Description
BXL_WIDTH_FULL	-1	Value is set to max width and the image is resized to the full paper size
BXL_WIDTH_NONE	-2	Image is not resized

2-9 Power

The read-only Power setting indicates the remaining battery capacity of the printer. A change of battery status is shown automatically.

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The remaining battery capacity status values are as follows.

Code	Value	Description
BXL_PWR_HIGH	0	Remaining battery capacity is 95%
BXL_PWR_MIDDLE	1	Remaining battery capacity is 85%
BXL_PWR_LOW	2	Remaining battery capacity is 50%
BXL_PWR_SMALL	3	Remaining battery capacity is 25%
BXL_PWR_NOT	4	Remaining battery capacity is less than 25%

2-10 State

The read-only Status setting indicates the status of the printer. The status of the printer is shown automatically when printer status is checked by calling the CheckPrinter function. Status values can be combined, and each setting can be checked through bit operation.

Printer status settings are as follows.

Code	Value	Description
BXL_STS_NORMAL	0	Normal
BXL_STS_PAPEREMPTY	1	No paper
BXL_STS_COVEROPEN	2	Printer cover open
BXL_STS_POWEROVER	4	Not enough remaining battery of printer
BXL_STS_MSR_READY	8	No printing MSR read only mode
BXL_STS_PRINTING	16	Printer is printing or receiving data
BXL_STS_ERROR	32	Error in communication with printer
BXL_STS_NOT_OPEN	64	Open method of BXPrinterControl was not called
BXL_STS_ERROR_OCCUR	128	Printer internal error
BXL_STS_NOT_CONNECTED	-1	Currently printer is not connected

2-11 Connection Control

The following table defines the type of printer connection.

Code	Value	Description
BXL_CONNECTIONMODE_AUTO	0	Automatic connect mode
BXL_CONNECTIONMODE_NOAUTO	100	Not automatic connect mode

2-12 Model ID

The model ID defines the type of printer.

Available settings are as follows.

Code	Value	Description
BXL_MODEL_ID_ZQ110	0x12001003	ZQ110

2-13 Connection Class

When the method 'didFindPrinter' is called, this value is updated to connectionClass in BXPrinter class.

Refer to 6-2-3 didFindPrinter for more information.

Code	Value	Description
BXL_CONNECTIONCLASS_WIFI	0x0000	WIFI Connection
BXL_CONNECTIONCLASS_ETHERNET	0x0001	Ethernet Connection
BXL_CONNECTIONCLASS_BT	0x0002	Bluetooth Connection

2-14 Result Code

The following table defines the possible result codes.

Code DEFINE	Value	Description
BXL_SUCCESS	0	Success
BXL_NOT_CONNECTED	-1	Printer is not connected
BXL_NOT_OPENED	101	SDK is not open
BXL_STATUS_ERROR	103	Error in status check
BXL_CONNECT_ERROR	105	Connection failure
BXL_NOT_SUPPORT	107	Not supported
BXL_BAD_ARGUMENT	108	Wrong function arguments
BXL_BUFFER_ERROR	109	Error in MSR buffer
BXL_NOT_CONNECTED	110	Printer is not connected
BXL_RGBA_ERROR	111	Error while converting image file to RGBA data
BXL_MEMORY_ERROR	112	Memory allocation failure
BXL_TOO_LARGE_IMAGE	113	Size of image file is too big while downloading image to NV area
BXL_NOT_SUPPORT_DEVICE	114	The printer device does not support
BXL_READ_ERROR	301	Failure in data reception
BXL_WRITE_ERROR	300	Failure in data transmission
BXL_BITMAPLOAD_ERROR	400	Fail to read image file
BXL_BC_DATA_ERROR	500	Error in bar code data
BXL_BC_NOT_SUPPORT	501	Unsupported bar code type
BXLMSR_NOTREADY	602	Not MSR READY state
BXLMSR_FAILEDMODE	601	Not automatic read mode
BXLMSR_DATAEMPTY	603	No data read from MSR

3. BXBarcode Class Reference

Inherits from	NSObject
Confirms to	
Framework	BXPrinter.a
[Availability]	iOS Printer SDK 1.0.0 and later
Declared	BXBarcodeInfo.h

3-1 Overview

BXBarcode class is an object that contains information about which barcode types are supported for each printer to control.

3-2 Properties

3-2-1 barNumber

Define Barcode Number

```
@property int barNumber
```

[Discussion]

The 'barNumber' is saved automatically by collecting information from the connected printer.

[Availability]

SDK 1.0.0 and later

3-2-2 name

Barcode Name

```
@property(readwrite) NSString * name
```

[Discussion]

The 'name' is saved automatically by collecting information from the connected printer.

[Availability]

SDK 1.0.0 and later

3-2-3 support

Barcode Availability

```
@property BOOL support
```

[Discussion]

The 'support' is saved automatically by collecting information from the connected printer.

[Availability]

SDK 1.0.0 and later

4. BXPrinter Class Reference

Inherits from	NSObject
Confirms to	
Framework	BXPrinter.a
[Availability]	iOS Printer SDK 1.0.0 and later
Declared	BXPrinterObject.h

4-1 Overview

BXPrinter Class contains the information of the control target printer (name/network address/port).

4-2 Properties

4-2-1 name

Printer Name

```
@property(readonly) NSString * name
```

[Discussion]

The 'name' is saved automatically by collecting information from the connected printer.

[Availability]

SDK 1.0.0 and later

4-2-2 address

For Wifi Printer, The 'address' is ip address of Printer

For Bluetooth Printer, The 'address' is ConnectionID of Printer

```
@property(readwrite) NSString * address
```

[Discussion]

Target Printer should be assigned first before making a connection

Refer to 5-3-6 connect regarding connection

[Availability]

SDK 1.0.0 and later

4-2-3 port

For ZQ110 Wifi model, 9100 port is usually used

```
@property(readwrite) unsigned short port
```

[Availability]

SDK 1.0.0 and later

4-2-4 modelStr

Model Name of Printer

The model name is provided by the firmware. For the ZQ110 printer, `_ZQ110` is returned.

`@property(readwrite) NSString * modelStr`

[Discussion]

This value is updated by the `checkPrinter` method of `BXPrinterController`.

[Availability]

SDK 1.0.0 and later

4-2-5 versionStr

Firmware Version of Printer

The version name is provided by the firmware. For the ZQ110, it is in the form of `_V01.00 STOB 040711`.

`@property(readwrite) NSString * versionStr`

[Discussion]

This value is updated by the `checkPrinter` method of `BXPrinterController`.

[Availability]

SDK 1.0.0 and later

4-2-6 macAddress

Mac Address of Printer

`@property(readwrite) NSString * macAddress`

[Availability]

SDK 1.0.0 and later

4-2-7 connectionClass

Printer interface type.

This value represents the way that the printer is connected. Refer to 2-13 Connection Class.

`@property(readwrite) unsigned short * connectionClass`

[Availability]

SDK 1.0.0 and later

4-2-8 bluetoothDeviceName

Bluetooth Device Name.

The 'name' is saved automatically by collecting information from the connected printer.

`@property(readonly) NSString * bluetoothDeviceName`

[Availability]

SDK 1.0.0 and later

5. BXPrinterController Class Reference

Inherits from	NSObject
Confirms to	
Framework	BXPrinter.a
[Availability]	iOS Printer SDK 1.0.0 and later
Declared	BXPrinter.h

5-1 Overview

BXPrinterController Class is the main object for printer control.

5-2 Properties

5-2-1 version

SDK Version

```
@property(readonly) NSString *    version
```

[Discussion]

SDK Version is a read-only string in the form of "1.0.0".

[Availability]

SDK 1.0.0 and later

5-2-2 delegate

Assign the Object to Apply BXPrinterControlDelegate Method

```
@property(readwrite) id<BXPrinterControlDelegate>    delegate
```

[Availability]

SDK 1.0.0 and later

5-2-3 target

Control Target Printer Object

```
@property(readwrite) BXPrinter *    target
```

[Discussion]

The control target printer object should be assigned before starting printer control.

[Availability]

SDK 1.0.0 and later

5-2-4 lookupDuration

Printer Lookup Time (unit: second)

@property(readwrite) CGFloat lookupDuration

[Discussion]

The value could be a fractional number such as 0.5.

[Availability]

SDK 1.0.0 and later

5-2-5 lookupCount

Number of Repeats on Signal Transmission for Printer Search

@property(readwrite) unsigned lookupCount

[Discussion]

The default value is set to 1. When this value is set to a number larger than 1, the printer search signal transmission is repeated by this number at intervals of 0.2 seconds.

[Availability]

SDK 1.0.0 and later

5-2-6 alignment

Horizontal Alignment Setting

@property(readwrite) int alignment

[Discussion]

The default value is set to left alignment. This setting affects all output printing, including text and bar code.

[Availability]

SDK 1.0.0 and later

5-2-7 attribute

Text Printing Property

@property(readwrite) int attribute

[Discussion]

Refer to 2-5 Text Attribute

[Availability]

SDK 1.0.0 and later

5-2-8 textSize

Size of the Printed Text

@property(readwrite) int textSize

[Discussion]

Refer to 2-4 Text Size

[Availability]

SDK 1.0.0 and later

5-2-9 characterSet

Printer Code Page

@property(readwrite) CGFloat characterSet

[Discussion]

Refer to 2-1 Character Set. Default value is set to BXL_CS_437.

[Availability]

SDK 1.0.0 and later

5-2-10 internationalCharacterSet

International Character Set

@property(readwrite) char internationalCharacterSet

[Discussion]

Refer to 2-2 International Character Set. Default value is set to BXL_CS_USA.

[Availability]

SDK 1.0.0 and later

5-2-11 textEncoding

Type of Text Encoding.

@property(readwrite) long textEncoding

[Discussion]

Refer to NSStringEncoding in NSString.h

(https://developer.apple.com/library/ios/documentation/Cocoa/Reference/Foundation/Classes/NSString_Class/Reference/NSString.html#//apple_ref/doc/c_ref/NSStringEncoding)

[Availability]

SDK 1.0.0 and later

5-2-12 state

Printer State Code

This value is updated when checkPrinter method of BXPrinterController is called.

@property(readonly) long state

[Discussion]

Refer to 2-10 State

[Availability]

SDK 1.0.0 and later

5-2-13 power

Printer Power

@property(readonly) long state

[Discussion]

Refer to 2-9 Power

[Availability]

SDK 1.0.0 and later

5-2-14 AutoConnection

Printer Connection

@property(assign) int AutoConnection

[Discussion]

Refer to 2-11 Connection Control

[Availability]

SDK 1.0.0 and later

<Note>

- ※ Printer connection is controlled automatically without using connect/disconnect function in the automatic connection mode.
- ※ Consecutive use of printText function may slow down the printing speed because most functions have a connect/disconnect job at the beginning and end of it. Use the manual connection mode to address this issue.

5-2-15 errorCorrection

Sets the error correction level of the QR code

@property(assign) int errorCorrection

[Discussion]

Refer to 2-11 Connection Control

[Availability]

SDK 1.0.0 and later

5-3 Instance Methods

5-3-1 getInstance

Obtain the BXPrinterController Class Instance

[Function prototype]

- (BXPrinterController)getInstance

[Return Value]

BXPrinterController class is created and returned automatically the first time that this method is called. The existing BXPrinterController class is returned thereafter.

[Discussion]

Because BXPrinterController class uses only one instance in one process, it is recommended that you allow the class instance to be created automatically instead of creating it manually.

[Availability]

SDK 1.0.0 and later

5-3-2 open

Initialization Task for Using BXPrinterController Class (memory allocation and background thread operation)

[Function prototype]

- (void)open

[Discussion]

- This task should be performed before calling the main delegate of applications such as (void)applicationDidBecomeActive:(UIApplication *).

[Availability]

SDK 1.0.0 and later

5-3-3 close

Deallocate Resources

Resources are deallocated while stopping or terminating the use of BXPrinterController class.

[Discussion]

- This task should be performed before calling the main delegate of applications such as (void)applicationWillResignActive:(UIApplication *).

When the close method is not called and applications using BXPrinterController are running in the background, simultaneous use of BXPrinterController by other applications could be restricted.

[Availability]

SDK 1.0.0 and later

5-3-4 lookup

Wireless Lookup

The following printers are searched:

- Paired Bluetooth printers with iPhone
- Printers in the same WiFi network where iPhone is connected

[Function prototype]

- (void)lookup

[Discussion]

Start/End of search and searched printers can be obtained through BXPrinter ControlDelegate. Each iPhone has two network adaptors including 3G and WiFi networks, and the lookup method searches WiFi only. No operation takes place when there is no connected WiFi.

[Availability]

SDK 1.0.0 and later

5-3-5 selectTarget

Initialization Task for Object of Specified Target

[Function prototype]

- (long)selectTarget
- (long)selectTarget : (int) modelID

[Parameters]

modelID

- Select the type of printer.
- You do not need to input it but it will be automatically allocated.
Refer to 2-12 Model ID.

[Return Value]

Refer to 2-14 Result Code

[Discussion]

The target of BXPrinterController should be set in advance.

[Availability]

SDK 1.0.0 and later

5-3-6 connect

Connect to Target Printer

[Function prototype]

- (BOOL)connect

[Discussion]

This method does not work when AutoConnection is set using `BXL_CONNECTIONMODE_AUTO`(default, == 0)

The target of `BXPrinterController` should be set in advance.

[Availability]

SDK 1.0.0 and later

5-3-7 disconnect

Disconnect from the Connected Printer

[Function prototype]

- (void)disconnect

[Discussion]

This method does not work when AutoConnection is set using `BXL_CONNECTIONMODE_AUTO`(default, == 0).

[Availability]

SDK 1.0.0 and later

5-3-8 disconnectWithTimeout

Disconnect from the Connected Printer with Timeout

If data remains in the buffer, this remaining data will be transmitted to the printer.

[Function prototype]

- (void)disconnectWithTimeout:(int)timeout

[Parameters]

int timeout

(timeout == 0)

The timeout is not used. Disconnects the connected printer immediately even if data exist in the buffer.

(timeout < 0)

The connection is not disconnected until the data remaining in the buffer have been transmitted to the printer. This transmission can take a long time if the data-size is large.

(timeout > 0)

If data remains in the buffer, this remaining data will be transmitted to the printer for the duration specified by the timeout value, and then the connected printer is disconnected.

[Availability]

SDK 1.0.0 and later

5-3-9 isConnected

Returns the Connection State of the Printer

[Return Value]

TRUE if the printer is connected.
FALSE if the printer is not connected.

[Function prototype]

- (BOOL)isConnected

[Availability]

SDK 1.0.0 and later

5-3-10 enableLSB

Enable Last sStatus Back

[Function prototype]

- (long)enableLSB:(BOOL)bEnable

[Parameters]

bEnable

LSB Enable.
FALSE : LSB Disable
TRUE : LSB Enable

[Return Value]

Refer to 2-14 Result Code

[Availability]

SDK 1.0.0 and later

5-3-11 printText

Print Text

No action takes place if no printer is connected.

[Function prototype]

- (long)printText:(NSString *)string

[Parameters]

string

Unicode data with null terminator. Print target text string.

[Return Value]

Refer to 2-14 Result Code

[Discussion]

Text alignment property should be set in advance.

[Availability]

SDK 1.0.0 and later

5-3-12 printBox

Print Box Shape for Text

No action takes place if no printer is connected.

[Function prototype]

(long)printText:(int)width height: (int)height;

[Parameters]

int

Specify the width of the box.

1 == width equivalent to that of one character

int

Specify the length of the box.

1 == length equivalent to that of one character

[Return Value]

Refer to 2-14 Result Code

[Discussion]

Alignment and properties of the text should be defined in advance.

[Availability]

SDK 1.0.0 and later

5-3-13 lineFeed

Perform Line Feed

[Function prototype]

- (void)linefeed:(int)lines

[Parameters]

lines

Number of lines to advance.

[Return Value]

Refer to 2-14 Result Code

[Availability]

SDK 1.0.0 and later

5-3-14 nextPrintPos

Feed Paper to Beginning of Next Label

[Function prototype]

- (long)nextPrintPos

[Return Value]

Refer to 2-14 Result Code

[Discussion]

This method works only when in label mode.

[Availability]

SDK 1.0.0 and later

5-3-15 printBarcode

Print One-Dimensional and Two-Dimensional Barcode

[Function prototype]

- (long)printBarcode:(char *)data
 symbology:(long)symbology
 width:(long)width
 height:(long)height
 alignment:(long)alignment
 textPosition:(long)textPosition

[Parameters]

data

ANSI code data with null terminator. Transfer barcode data to print.

symbology

Define barcode type.

width

Width of barcode. Valid range is 2 to 7.

Barcode printing may not work properly if the width of the barcode print exceeds the printer paper width.

This setting does not affect 2-dimensional barcodes.

height

Height of barcode in number of dots Range is 1 to 255.

This setting does not affect 2-dimensional barcodes.

alignment

Barcode alignment setting

Refer to 2-3 Barcode/Text Alignment

textPosition

Barcode text position setting

Refer to 2-6 Barcode Text Position

[Return Value]

Refer to 2-14 Result Code

[Availability]

SDK 1.0.0 and later

5-3-16 printBitmap

Print Image File

[Function prototype]

```

- (long)printBitmap:(NSString *)path
    width:(long)width
    alignment:(long)alignment
    level:(long)level

```

[Parameters]*path*

Path of image file

width

Width of image file to convert. Valid setting range is 0 to maximum width. Image is resized with the given condition when the value is less than 0. Refer to 2-8 Image Width

alignment

Image alignment setting
Refer to 2-3 Image Alignment

level

Color level and diffusion processing option of image

Value	Description
0 ~ 100	Color level value
If fourth digit is 1	Enable diffusion processing
If fifth digit is 1	Image print using ESC * command

Note: What is Error Diffusion?

Error Diffusion is a method to present the color image or black-and-white image with fewer bits/pixel, which may produce few visible patterns (such as a snake-like pattern for a certain type of image) but in general, the capability of sharp representation is excellent. The disadvantage to this method is a long processing time because errors are measured and an amount of computing is required for distributing the errors to neighboring pixels.

It is recommended that you use the diffusion algorithm with this SDK.

[Return Value]

Refer to 2-14 Result Code

[Availability]

SDK 1.0.0 and later

5-3-17 checkPrinter

Check the Printer States and Update the Printer State Property

[Function prototype]

- (long)checkPrinter

[Return Value]

Refer to 2-14 Result Code

[Availability]

SDK 1.0.0 and later

5-3-18 msrReadReady

Switch the Printer to MSR Ready state

[Function prototype]

- (long)msrReadReady

[Return Value]

Refer to 2-14 Result Code

[Availability]

SDK 1.0.0 and later

5-3-19 msrReadCancel

Release the MSR Ready State of the Printer

[Function prototype]

- (long)msrReadCancel

[Return Value]

Refer to 2-14 Result Code

[Availability]

SDK 1.0.0 and later

5-3-20 msrReadCancelEx

Release the MSR Ready State of the Printer

The delegate "msrTerminated" below can be invoked after this method has been finished.

Refer To 6-2-11 msrTerminated

[Function prototype]

- (long)msrReadCancelEx

[Return Value]

Refer to 2-14 Result Code

[Availability]

SDK 1.0.0 and later

5-3-21 msrReadTrack

Read MSR Data on the track 1,2 and 3

In MSR read mode, if BXLMSR_DATAEMPTY is returned, the card is not read in MSR. Scan the card with MSR again, or use the msrReadCancel method to cancel the read mode.

[Function prototype]

```
- (long)msrReadTrack:(NSData **)data1
                        data2:(NSData **)data2
                        data3:(NSData **)data3
```

[Parameters]

data1

Read MSR Data Track 1 and save it.

data2

Read MSR Data Track 2 and save it.

data3

Read MSR Data Track 3 and save it.

[Return Value]

Refer to 2-14 Result Code

[Discussion]

All of data1, data2, and data3 carry unallocated NSData *data. The NSData object is allocated inside the method.

The allocated data1, data2, and data3 are auto released, and users do not have to release them explicitly.

[Availability]

SDK 1.0.0 and later

5-3-22 msrGetTrack

Read MSR data on the specific track

In MSR read mode, if BXLMSR_DATAEMPTY is returned, the card is not read in MSR. Scan the card with MSR again, or use the msrReadCancel method to cancel the read mode.

[Function prototype]

```
- (long)msrGetTrack:(int)track
                    response:(NSData **)response
```

[Parameters]

track

MSR Data Track number 1 to 3

response

MSR Data Track value

[Return Value]

Refer to 2-14 Result Code

[Discussion]

The response carries unallocated NSData *data. The NSData object is allocated inside the method.

The response is auto released, and users do not have to release it explicitly.

[Availability]

SDK 1.0.0 and later

5-3-23 msrReadFullTrack

Read Entire MSR Data

In MSR read mode, if BXLMSR_DATAEMPTY is returned, the card is not read in MSR. Scan the card with MSR again, or use the msrReadCancel method to cancel the read mode.

[Function prototype]

- (long)msrReadFullTrack:(NSData **)response

[Parameters]

response

MSR Data Track value

[Return Value]

Refer to 2-14 Result Code

[Discussion]

The response carries unallocated NSData *data. The NSData object is allocated inside the method. The response is auto released, and users do not have to release it explicitly.

[Availability]

SDK 1.0.0 and later

5-3-24 directIO

Send or Read User Defined Data.

[Function prototype]

- (long)directIO:(NSData *)request
 requiredSize:(NSInteger) requiredSize
 response:(NSData **)response

[Parameters]

request

Data to be sent to printer, ANSI CODE data

requiredSize

It contains the expected size of the response from the printer.

response

Response sent from printer is returned

[Return Value]

Refer to 2-14 Result Code

[Availability]

SDK 1.0.0 and later

5-3-25 nvImageList

Read List of Image Addresses Saved in the NV Area

[Function prototype]

- (long)nvImageList:(NSArray **)images

[Parameters]

images

The address list is provided. Each address is saved in the form of NSNumber *.
The images are autoreleased, and users do not have to release them explicitly.

[Return Value]

Refer to 2-14 Result Code

[Discussion]

<Example >

```
NSArray      *images;
```

```
[[BXPrinterController getInstance()] nvImageList:&images];  
for( NSNumber *n in images)  
{  
    NSLog(@"%d", [NSNumber intValue]);  
}
```

[Availability]

SDK 1.0.0 and later

5-3-26 downloadNVImage (Diffusion)

Download Image Data Corresponding to the Address Saved in the NV Area

[Function prototype]

```
- (long)downloadNVImage:(int)address
    withImage:(UIImage *)image
    width:(long)width
    level:(long)level
```

[Parameters]

address

Image address in the range of 0 to 99. If there is an image saved for the corresponding address, the existing image is replaced by the new image.

images

Download target image object

width

Width of the image to print

The image will be printed with the maximum width that can be supported by the printer when BXL_WIDTH_FULL is input or input value of width is invalid.

The image will be enlarged if the input value of width is larger than the width of actual image.

Then the image will be reduced if the input value of width is smaller than the width of actual image.

level

Color level and diffusion processing option of image

Value	Description
0 ~ 100	Color level value
If fourth digit is 1	Enable diffusion processing
If fifth digit is 1	Image print using ESC * command

Note: What is Error Diffusion?

Error Diffusion is a method to present the color image or black-and-white image with fewer bits/pixel, which may produce few visible patterns (such as a snake-like pattern for a certain type of image) but in general, the capability of sharp representation is excellent. The disadvantage to this method is a long processing time because errors are measured and an amount of computing is required for distributing the errors to neighboring pixels.

It is recommended that you use the diffusion algorithm with this SDK.

[Return Value]

Refer to 2-14 Result Code

[Discussion]

When the width of the image is wider than the width of printer, the image is resized automatically.

[Availability]

SDK 1.0.0 and later

5-3-27 downloadNVImage (Normal)

Download Image Data to the Designated Address in the NV Area.

[Function prototype]

- (long)downloadNVImage:(int)address
withImage:(UIImage *)image

[Parameters]

address

Image address in the range of 0 to 99. If there is an image saved for the corresponding address, the existing image is replaced by a new image.

images

Download target image object

[Return Value]

Refer to 2-14 Result Code

[Discussion]

When the width of the image is wider than the width of the printer, the image is resized automatically.

The width value is set to BXL_WIDTH_FULL and the image data is processed with a level of 1050, 50% of brightness, and the error diffusion algorithm enable settings are downloaded.

[Availability]

SDK 1.0.0 and later

5-3-28 printNVImage

Print Image Data to the Designated Address in the NV Area

[Function prototype]

- (long)printNVImage:(int)address

[Parameters]

address

Image address in the range of 0 to 9

[Return Value]

Refer to 2-14 Result Code.

[Discussion]

The image is not printed if the image does not exist in the corresponding address.

[Availability]

SDK 1.0.0 and later

5-3-29 removeNVImage

Delete Image Data from the Designated Address in the NV Area.

[Function prototype]

- (long)removeNVImage:(int)address

[Parameters]

address

Image address in the range of 0 to 99

[Return Value]

Refer to 2-14 Result Code

[Discussion]

No action takes place if the image does not exist in the corresponding address.

[Availability]

SDK 1.0.0 and later

5-3-30 removeAllNVImages

Delete All Image Data from the Designated Address in the NV Area

[Function prototype]

- (long)removeAllNVImages

[Return Value]

Refer to 2-14 Result Code

[Availability]

SDK 1.0.0 and later

5-3-31 isSupport_MSR

Check Whether a Specific Feature of the MSR is Supported

[Function prototype]

- (BOOL)isSupport_MSR

[Return Value]

If the feature of the MSR is supported, the value returned is TRUE.

[Availability]

SDK 1.0.0 and later

5-3-32 isSupport_LSB

Check Whether a Specific Feature of the LSB is Supported

[Function prototype]

- (BOOL)isSupport_MSR

[Return Value]

If the feature of the LSB is supported, the value returned is TRUE

[Availability]

SDK 1.0.0 and later

5-3-33 isSupport_Barcode

Checks whether the printer can print barcodes.

[Function prototype]

- (BOOL)isSupport_Barcode

[Return Value]

TRUE if printing barcodes is supported.

FALSE if printing barcodes is not supported.

[Availability]

SDK 1.0.0 and later

5-3-34 getBarcodeSupportTable

Check that the Barcode Print Function is Supported

[Function prototype]

- (NSMutableArray*)getBarcodeSupportTable

[Return Value]

A NSMutableArray that contains BXBarcode is returned.

[Availability]

SDK 1.0.0 and later

6. BXPrinterControllerDelegate Protocol Reference

Inherits from	NSObject
Confirms to	
Framework	BXPrinter.a
[Availability]	iOS Printer SDK 1.0.0 and later
Declared	BXPrinteControlDelegater.h

6-1 Overview

This receives events occurring in the BXPrinterController class.

6-2 Instance Methods

6-2-1 didStart

Called When Class Use is Started Using Open Method of BXPrinterController

It is called after printer connection is completed.

[Function prototype]

- (void) didStart

[Parameters]

controller

BXPrinterController object that generates events

[Discussion]

Used to indicate the beginning of the use of printer class to users.

[Availability]

SDK 1.0.0 and later

6-2-2 didStop

Called When Class Use is Stopped Using Open Method of BXPrinterController

[Function prototype]

- (void) didStop

[Parameters]

controller

BXPrinterController object that generates events

[Discussion]

Used to indicate the termination of the use of printer class.

[Availability]

SDK 1.0.0 and later

6-2-3 didFindPrinter

Called for Each Printer When Another Printer is Discovered from the Same Network.

[Function prototype]

```
- (void)didFindPrinter:(BXPrinterController *)controller  
    printer:(BXPrinter *)printer
```

[Parameters]

controller

BXPrinterController object that generates events

printer

Information of discovered printer

[Discussion]

If same printer responds multiple times during the printer lookup process, this method is called only once the first time.

[Availability]

SDK 1.0.0 and late

6-2-4 didConnect

Called When a Connection to a Printer is Finished.

[Function prototype]

```
- (void)didConnect:(BXPrinterController *)controller
```

[Discussion]

If you need to have more information about target printers, please refer to target properties in BXPrinterController.

[Availability]

SDK 1.0.0 and later

6-2-5 didNotConnect

Called when connection to printer cannot be made.

[Function prototype]

```
- (void)didNotConnect:(BXPrinterController *)controller  
    withError:(NSError *)error
```

[Parameters]

controller

BXPrinterController object that generates events

error

Information regarding the cause of failure

[Discussion]

Used when there is an error during the printer connection stage.

[Availability]

SDK 1.0.0 and later

6-2-6 willLookupPrinters

Called Before Starting Printer Search

[Function prototype]

- (void)willLookupPrinters:(BXPrinterController *)controller

[Parameters]

controller

BXPrinterController object that generates events

[Discussion]

Used to indicate the start of the printer search.

[Availability]

SDK 1.0.0 and later

6-2-7 didLookupPrinters

Called When Printer Search is Completed

[Function prototype]

- (void)didLookupPrinters:(BXPrinterController *)controller

[Parameters]

controller

BXPrinterController object that generates events

[Discussion]

Used to indicate the search status to users.

[Availability]

SDK 1.0.0 and later

6-2-8 didNotLookup

Called When Printer Search Cannot be Performed

[Function prototype]

- (void)didNotLookup:(BXPrinterController *)controller
withError:(NSError *)error

[Parameters]

controller

BXPrinterController object that generates events

error

Information regarding the cause of failure

[Discussion]

Used when lookup fails when the printer is connected to WiFi or Bluetooth.

[Availability]

SDK 1.0.0 and later

6-2-9 didBeBrokenConnection

Called When the Connection to Printer is Broken

[Function prototype]

- (void)didBeBrokenConnection:(BXPrinterController *)controller
withError:(NSError *)error

[Parameters]

controller

BXPrinterController object that generates events

error

Information regarding the cause of failure

[Discussion]

This method is called only when the connection is interrupted by external problem other than user intervention. It is not called when a user breaks the connection by calling the close method of BXPrinterController.

Refer to the target property of BXPrinterController for the information of target printer.

[Availability]

SDK 1.0.0 and later

6-2-10 msrArrived

Called When MSR Data Arrives Correctly in MSR Read Mode

[Function prototype]

- (void)msrArrived:(BXPrinterController *)controller
track:(NSNumber *)track

[Parameters]

controller

BXPrinterController object that generates events

track

Track number 1 to 3 for MSR data

[Discussion]

After this method is called, the MSR data of the corresponding track can be obtained through the getTrack: method of BXPrinterController.

[Availability]

SDK 1.0.0 and later

6-2-11 msrTerminated

Called When MSR Read Mode to Terminated

[Function prototype]

- (void)msrTerminated:(BXPrinterController *)controller

[Parameters]

controller

BXPrinterController object that generates events

[Availability]

SDK 1.0.0 and later

6-2-12 didUpdateStatus

Called When Printer Status Variable has Changed

[Function prototype]

- (void)didUpdateStatus:(BXPrinterController *)controller
Status(NSNumber*) status

[Parameters]

controller

BXPrinterController object that generates events

status

Information regarding the current status of the printer

[Availability]

SDK 1.0.0 and later



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