

**BIXOLON®**

**API Reference Guide**  
**Linux POS/Mobile SDK**

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**Rev. 2.02**

<http://www.bixolon.com>

# Table of Contents

<b>1. Manual guide</b> .....	<b>3</b>
1-1 Supported Kernel & Platform, O/S .....	3
1-2 Supported Interfaces .....	3
1-3 Supported Printers.....	4
<b>2. Property</b> .....	<b>5</b>
2-1 CharacterSet (LONG R/W) .....	5
2-2 International CharacterSet (LONG R/W) .....	7
2-3 State (LONG R) .....	8
<b>3. Method</b> .....	<b>9</b>
3-1 ConnectToPrinter .....	9
3-2 DisconnectPrinter .....	10
3-3 InitializePrinter .....	11
3-4 LineFeed.....	12
3-5 SetLeftMargin .....	13
3-6 SetUpsideDown .....	14
3-7 PartialCut.....	15
3-8 OpenCashDrawer .....	16
3-9 PrintText.....	17
3-10 PrintTextW .....	19
3-11 PrintBarcode .....	21
3-12 DirectIO .....	26
3-13 PrintImage .....	27
3-14 DownloadNVImage.....	28
3-15 PrintNVImage .....	29
3-16 RemoveAllNVImage .....	30
3-17 RemoveNVImage .....	31
3-18 GetNVImageKeyCode .....	32
3-19 SetAutoStatusCheck.....	33
3-20 GetStatus .....	34
3-21 SelectMode.....	35
3-22 NextPrintPos.....	36
3-23 AutoCalibration .....	37
3-24 SelectPageMode .....	38
3-25 PrintDataInPM .....	39
3-26 SetPrintAreaInPM.....	40
3-27 SetPrintDirectionInPM .....	41
3-28 SetVerticalPositionInPM .....	42
3-29 SetHorizontalPositionInPM .....	43
3-30 ReadStartMSR.....	44
3-31 ReadCancelMSR .....	45
3-32 ReadMSRData.....	46
3-33 ScrPowerUp.....	47
3-34 ScrPowerDown .....	48
3-35 ScrOperationMode.....	49
3-36 ScrExchangeAPDU .....	50
3-37 ScrCheckStatus .....	51
3-38 ScrSelectCard.....	52
3-39 getBatteryStatus .....	53

# 1. Manual guide

This SDK manual describes the contents of the library required to develop Linux OS application programs.

## **1-1 Supported Kernel & Platform, O/S**

- Kernel
  - Kernel 2.6.32 or higher
  
- Platform
  - Linux 32bit / 64bit
  - Raspberry PI
  
- O/S
  - openSUSE 11.3 32bit / 64bit
  - Red Hat Enterprise Linux 7.3 64bit
  - CentOS 6.6 32bit / 64bit
  - Ubuntu 10.04 LTS 32bit / 64bit

## **1-2 Supported Interfaces**

- USB, Serial, Parallel, Bluetooth, Ethernet, WLAN

**1-3 Supported Printers**

Model	DPI	Max Printable Width
SRP-E300	180 dpi	512 dots
SRP-E302	203 dpi	576 dots
SRP-QE300	180 dpi	512 dots
SRP-QE302	203 dpi	576 dots
SRP-S300	203 dpi	576 dots
SRP-380	180 dpi	512 dots
SRP-382	203 dpi	576 dots
SRP-383	300 dpi	864 dots
SRP-330II	180 dpi	512 dots
SRP-332II	203 dpi	576 dots
SRP-F310II	180 dpi	512 dots
SRP-F312II	203 dpi	576 dots
SRP-F313II	203 dpi	640 dots
SRP-350III	180 dpi	512 dots
SRP-352III	203 dpi	576 dots
SRP-350plusIII	180 dpi	512 dots
SRP-352plusIII	203 dpi	576 dots
SRP-340II	180 dpi	512 dots
SRP-342II	203 dpi	576 dots
BK3-3	203 dpi	576 dots
STP-103III	203 dpi	384 dots
SPP-R200II	203 dpi	384 dots
SPP-R200III	203 dpi	384 dots
SPP-R210	203 dpi	384 dots
SPP-R300	203 dpi	576 dots
SPP-R310	203 dpi	576 dots
SPP-R400	203 dpi	832 dots
SPP-R410	203 dpi	832 dots

## 2. Property

The constants used by the library are declared in `bxlConst.c`. The development environment is based on C.

### 2-1 CharacterSet (LONG R/W)

- This is the property for defining the printer's code page and set to `CS_PC437` by default. The values can be set and read using `SetCharSet()` and `GetCharSet()`.

The following code pages can be used:


Constant	Value	Description
<code>CS_PC437</code>	0	Code page PC437
<code>CS_KATAKANA</code>	1	Katakana
<code>CS_PC850</code>	2	Code page PC850
<code>CS_PC860</code>	3	Code page PC860
<code>CS_PC863</code>	4	Code page PC863
<code>CS_PC865</code>	5	Code page PC865
<code>CS_WPC1252</code>	16	Code page WPC1252
<code>CS_PC866</code>	17	Code page PC866
<code>CS_PC852</code>	18	Code page PC852
<code>CS_PC858</code>	19	Code page PC858
<code>CS_THAI42</code>	23	Code page THAI42
<code>CS_WPC1253</code>	24	Code page WPC1253
<code>CS_WPC1254</code>	25	Code page WPC1254
<code>CS_WPC1257</code>	26	Code page WPC1257
<code>CS_WPC1251</code>	28	Code page WPC1251
<code>CS_PC737</code>	29	Code page PC737
<code>CS_PC775</code>	30	Code page PC775
<code>CS_THAI14</code>	31	Code page THAI14
<code>CS_PC862</code>	33	Code page PC862
<code>CS_PC855</code>	36	Code page PC855
<code>CS_PC857</code>	37	Code page PC857
<code>CS_PC928</code>	38	Code page PC928
<code>CS_THAI16</code>	39	Code page THAI16
<code>CS_PC1258</code>	41	Code page PC1258
<code>CS_PC1250</code>	47	Code page PC1250
<code>CS_USER</code>	255	User set page

\* Example

```
ConnectToPrinter(port);  
.....  
SetCharSet(CS_PC850);  
.....  
int32 nCharSet;  
nCharSet = GetCharSet();  
.....
```

**2-2 International CharacterSet (LONG R/W)**

- This is the property for defining International character Set and set to ICS\_USA by default. The values can be set or read using SetInternationalChar() and GetInternationalChar().

 <b>Note</b>	CharacterSet settings may need to be verified in the following cases 1. When character strings other than the one you tried to print are printed 2. When a broken string is printed in the same form as hieroglyphic characters 3. When characters are printed in the form of '?' (question mark)
---	--

The following International character Set can be used:

Constant	Value	Description
ICS_USA	0	USA code
ICS_FRANCE	1	FRANCE code
ICS_GERMANY	2	GERMANY code
ICS_UK	3	UK code
ICS_DENMARK1	4	DENMARK1 code
ICS_SWEDEN	5	SWEDEN code
ICS_ITALY	6	ITALY code
ICS_SPAIN	7	SPAIN code
ICS_JAPAN	8	JAPAN code
ICS_NORWAY	9	NORWAY code
ICS_DENMARK2	10	DENMARK 2 code
ICS_SPAIN2	11	SPAIN 2 code
ICS_LATIN	12	LATIN AMERICA code
ICS_KOREA	13	KOREA code

\* Example

```
ConnectToPrinter(port)
.....
SetInternationalChar(ICS_SPAIN);
.....
int32 nCharSet;
nCharSet = GetInternationalChar();
.....
```

**2-3 State (LONG R)**

- This is the property that sets the printer status. It is read only and calls GetStatus() to read the printer status. The status value can be set in duplicate and each value can be checked using bitwise operation.

These are the printer status values:

Constant	Value	Description
STS_NORMAL	0	The printer status is normal.
STS_PAPEREMPTY	1	There is no paper.
STS_COVEROPEN	2	The paper cover is open.
STS_NEAREND	4	The paper is low (Near end).

\* Example

```
ConnectToPrinter(port)
.....

SetAutoStatusCheck(true);

int status = GetStatus();

if ((status & STS_PAPEREMPTY) == STS_PAPEREMPTY)
    .....
if ((status & STS_COVEROPEN) == STS_COVEROPEN)
    .....

.....
```



## 3. Method

The functions provided by Linux SDK are declared in BxIPosAPI.h.  
The development environment is based on C.

### 3-1 ConnectToPrinter

- Set the connection for communication with the printer.

```
int ConnectToPrinter(const char *port)
```

#### [Parameters]

- \* const char \*port  
[in] Interface to be connected to the printer

Interface	Input Data	Example
USB	USB:	ConnectToPrinter("USB:")
Serial	serial:(baudrate) /dev/ttySX:(baudrate)	ConnectToPrinter("serial:115200") ConnectToPrinter("/dev/ttyS0:115200")
Parallel	parallel /dev/lpX	ConnectToPrinter("parallel") ConnectToPrinter("/dev/lp0")
Bluetooth	Device MAC address /dev/ttySX:(baudrate)	ConnectToPrinter("7d:f0:7d:e4:e0:78") ConnectToPrinter("/dev/ttyS0:115200")
Ethernet, Wifi	IP address, port no.	ConnectToPrinter("192.168.0.10:9100")

#### [Return Values]

Constant	Value	Description
SUCCESS	0	The operation is successful.
PORT_OPEN_ERROR	-99	The communication port cannot be opened.
NO_CONNECTED_PRINTER	-100	The printer is not connected.
NO_BIXOLON_PRINTER	-101	It is not a BIXOLON printer.

#### \* Example

```
int ret;

// USB
ret = ConnectToPrinter("USB:");

// Serial
ret = ConnectToPrinter("serial:115200");

// Parallel
ret = ConnectToPrinter("parallel");

// bluetooth
ret = ConnectToPrinter("7d:f0:7d:e4:e0:78");

// Ethernet or WiFi
ret = ConnectToPrinter("192.168.0.10:9100");
.....
```

**3-2 DisconnectPrinter**

- Disconnect the printer.

void DisconnectPrinter();

**[Parameters]**

None

**[Return Values]**

None

\* Example

```
ConnectToPrinter(.....);
```

```
.....
```

```
DisconnectPrinter();
```

**3-3 InitializePrinter**

- Cancel the existing settings and initialize.

int InitializePrinter();

**[Parameters]**

None

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.

\* Example

```
.....  
InitializePrinter();  
.....
```

**3-4 LineFeed**

- Line feed to the amount of the integer value set as a factor.

int LineFeed (const unsigned int lineNumber);

**[Parameters]**

\* const unsigned int lineNumber

[in] Send the number of line feeding lines in an integer value as a factor.

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
MEM_ALLOC_ERROR	-120	The allocation of internal memory failed.

\* Example

```
ConnectToPrinter(.....);  
  
.....  
  
LineFeed(5);  
  
.....
```

**3-5 SetLeftMargin**

- Set the left margin.

int SetLeftMargin (long margin);

**[Parameters]**

- \* long margin  
[in] Margin size : 0 ~ Max printable width (dots)

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
BAD_ARGUMENT	-117	Incorrect values have been entered.

\* Example

```
ConnectToPrinter(.....);  
  
.....  
  
SetLeftMargin(10);  
  
.....
```

**3-6 SetUpsideDown**

- Set the upside-down function.

int SetUpsideDown (bool upsideDown);

**[Parameters]**

- \* bool upsideDown  
[in] Enable/disable the upside-down function.

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.

\* Example

```
ConnectToPrinter(.....);  
  
.....  
  
SetUpsideDown(true);  
  
.....
```

**3-7 PartialCut**

- Enable the partial cut function.

int PartialCut();

**[Parameters]**

None

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
NOT_SUPPORT	-124	The function is not supported.

\* Example

```
ConnectToPrinter(.....);  
  
.....  
PartialCut();  
  
.....
```

**3-8 OpenCashDrawer**

- Open the cash drawer.

int OpenCashDrawer (unsigned int milliSec);

**[Parameters]**

- \* unsigned int milliSec  
[in] Set the open signal length (0 ~ 255).

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
NOT_SUPPORT	-124	The function is not supported.

\* Example

```
ConnectToPrinter(.....);  
  
.....  
  
OpenCashDrawer(100);  
  
.....
```



**3-9 PrintText**

- Print texts.

```
int PrintText(const char* text, const int alignment, const unsigned int attribute,  
             const unsigned int textSize);
```

**[Parameters]**

\* const char\* text  
[in] String with null as a terminator. Send the text data to print.

\* const int alignment  
[in] Set the text alignment.

Constant	Value	Description
ALIGNMENT_LEFT	0	Align to the left
ALIGNMENT_CENTER	1	Align to the center
ALIGNMENT_RIGHT	2	Align to the right

\* const unsigned int attribute  
[in] Set the text attributes. The following values can be applied in duplicate.

Constant	Value	Description
ATTR_FONTTYPE_A	0	Set to Font A. (default)
ATTR_FONTTYPE_B	1	Set to Font B
ATTR_FONTTYPE_C	2	Set to Font C
ATTR_BOLD	4	Add Bold
ATTR_UNDERLINE_1	8	Add 1-dot underline
ATTR_UNDERLINE_2	16	Add 2-dot underline
ATTR_REVERSE	32	Add the reverse text attribute.

\* const unsigned int textSize  
[in] Set the text size. The width and height scale can be used in duplicate.

Constant	Value	Description
TS_WIDTH_0	0x00	Set the width scale to x1
TS_WIDTH_1	0x10	Set the width scale to x2
TS_WIDTH_2	0x20	Set the width scale to x3
TS_WIDTH_3	0x30	Set the width scale to x4
TS_WIDTH_4	0x40	Set the width scale to x5
TS_WIDTH_5	0x50	Set the width scale to x6
TS_WIDTH_6	0x60	Set the width scale to x7
TS_WIDTH_7	0x70	Set the width scale to x8

Constant	Value	Description
TS_HEIGHT_0	0x00	Set the height scale to x1
TS_HEIGHT_1	0x01	Set the height scale to x2
TS_HEIGHT_2	0x02	Set the height scale to x3
TS_HEIGHT_3	0x03	Set the height scale to x4
TS_HEIGHT_4	0x04	Set the height scale to x5
TS_HEIGHT_5	0x05	Set the height scale to x6
TS_HEIGHT_6	0x06	Set the height scale to x7
TS_HEIGHT_7	0x07	Set the height scale to x8

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
STATUS_ERROR	-103	Not ready to print.
WRITE_ERROR	-105	Data transmission failed.

\* Example

```
ConnectToPrinter(.....);  
  
.....  
  
PrintText("Bixolon Linux SDK Text.\n", ALIGNMENT_LEFT,  
          ATTR_FONTTYPE_A, TS_HEIGHT_0 | TS_WIDTH_0);  
  
.....
```

**3-10 PrintTextW**

- Print 2Bytes texts.

```
int PrintTextW(const char* text, const int alignment, const unsigned int attribute,  
              const unsigned int textSize, const unsigned int codePage);
```

**[Parameters]**

\* const char\* text  
[in] String with null as a terminator. Send the text data to print.

\* const int alignment  
[in] Set the text alignment.

Constant	Value	Description
ALIGNMENT_LEFT	0	Align to the left
ALIGNMENT_CENTER	1	Align to the center
ALIGNMENT_RIGHT	2	Align to the right

\* const unsigned int attribute  
[in] Set the text attributes. The following values can be applied in duplicate.

Constant	Value	Description
ATTR_FONTTYPE_A	0	Set to Font A. Print with the default device font.
ATTR_FONTTYPE_B	1	Set to Font B
ATTR_FONTTYPE_C	2	Set to Font C
ATTR_BOLD	4	Add Bold
ATTR_UNDERLINE_1	8	Add 1-dot underline
ATTR_UNDERLINE_2	16	Add 2-dot underline
ATTR_REVERSE	32	Add the reverse text attribute.

\* const unsigned int textSize  
[in] Set the text size. The width and height scale can be used in duplicate.

Constant	Value	Description
TS_WIDTH_0	0x00	Set the width scale to x1
TS_WIDTH_1	0x10	Set the width scale to x2
TS_WIDTH_2	0x20	Set the width scale to x3
TS_WIDTH_3	0x30	Set the width scale to x4
TS_WIDTH_4	0x40	Set the width scale to x5
TS_WIDTH_5	0x50	Set the width scale to x6
TS_WIDTH_6	0x60	Set the width scale to x7
TS_WIDTH_7	0x70	Set the width scale to x8

Constant	Value	Description
TS_HEIGHT_0	0x00	Set the height scale to x1
TS_HEIGHT_1	0x01	Set the height scale to x2
TS_HEIGHT_2	0x02	Set the height scale to x3
TS_HEIGHT_3	0x03	Set the height scale to x4
TS_HEIGHT_4	0x04	Set the height scale to x5
TS_HEIGHT_5	0x05	Set the height scale to x6
TS_HEIGHT_6	0x06	Set the height scale to x7
TS_HEIGHT_7	0x07	Set the height scale to x8

\* const unsigned int codePage  
 [in] Set the encoding type for character strings.

Constant	Value	Description
ENCODING_ASCII	0	ASCII
ENCODING_EUCKR	1	Korean (EUC-KR)
ENCODING_CP949	2	Korean (CP949)
ENCODING_EUCCN	3	Chinese (EUC-CN)
ENCODING_GB18030	4	Chinese (GB18030)
ENCODING_BIG5	5	Chinese (BIG5)
ENCODING_CP950	6	Chinese (CP950)
ENCODING_EUCJP	7	Japanese (EUC-JP)
ENCODING_CP932	8	Japanese (CP932)
ENCODING_CP874	9	Thai (CP874)

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
STATUS_ERROR	-103	Not ready to print.
WRITE_ERROR	-105	Data transmission failed.

\* Example

```
ConnectToPrinter(.....);

.....

PrintTextW("Korean Printing Test.\n", ALIGNMENT_LEFT,
ATTR_FONTTYPE_A, TS_HEIGHT_0 | TS_WIDTH_0, ENCODING_CP949);
.....
```

**3-11 PrintBarcode**

- Print 1- and 2-dimensional barcodes.

```
int PrintBarcode(const int barcodeType, const char* barcodeData,  
               const barcodeInfo_s* barcodeInfo);
```

**[Parameters]**

\* const int barcodeType  
[in] Set the barcode type. Defined in bxlConst.c.

Constant	Value	Description
BARCODE_UPCA	0	Print UPC-A barcode.
BARCODE_UPCE	1	Print UPC-E barcode.
BARCODE_EAN13	3	Print JAN-13(EAN-13) barcode.
BARCODE_JAN13	5	
BARCODE_EAN8	2	Print JAN-8(EAN-8) barcode.
BARCODE_JAN8	4	
BARCODE_ITF	6	Print ITF barcode.
BARCODE_CODABAR	7	Print CODABAR barcode.
BARCODE_CODE39	8	Print CODE39 barcode.
BARCODE_CODE93	9	Print CODE93 barcode.
BARCODE_CODE128	10	Print CODE128 barcode.
BARCODE_PDF417	11	Print PDF417 barcode.
BARCODE_QRCODE	12	Print QR CODE barcode.
BARCODE_DATAMATRIX	13	Print DATAMATRIX barcode.
BARCODE_MAXICODE	14	Print MAXICODE barcode.
BARCODE_AZTEC	15	Print AZTEC barcode.
BARCODE_GS1	16	Print GS1 barcode.

\* const char\* barcodeData  
[in] Send the barcode data to print.

\* const barcodeInfo\_s\* barcodeInfo  
[in] Structure for storing barcode attributes

```
Struct _barcodeInfo  
{  
    unsigned int mode;  
    unsigned int height;  
    unsigned int width;  
    unsigned int alignment;  
    unsigned int textPosition;  
    unsigned int attribute;  
};
```

unsigned int mode

[in] Send the model value when printing QR Code.

Constant	Value	Description
BARCODE_QR_MODEL1	1	Model 1
BARCODE_QR_MODEL2	2	Model 2

Send the mode value when printing Maxi Code.

Constant	Value	Description
BARCODE_MAXI_MODE2	1	Mode 2
BARCODE_MAXI_MODE3	2	Mode 3
BARCODE_MAXI_MODE4	3	Mode 4

Send the mode value when printing AZTEC.

Constant	Value	Description
BARCODE_AZTEC_DATAMODE	1	Data mode
BARCODE_AZTEC_GS1MODE	2	gs1 mode
BARCODE_AZTEC_UNICODE	3	Unicode mode

the mode value when printing GS1.

Constant	Value	Description
BARCODE_GS1_RSS14	1	GS1 DataBar Omnidirectional
BARCODE_GS1_RSS14TRUNCATED	2	GS1 DataBar Truncated
BARCODE_GS1_RSS14STACKED	3	GS1 DataBar Stacked
BARCODE_GS1_RSS14STACKEDOMNI	4	GS1 DataBar Stacked Omnidirectional
BARCODE_GS1_UPCA	5	UPC-A
BARCODE_GS1_UPCE	6	UPC-E
BARCODE_GS1_EAN13	7	EAN-13
BARCODE_GS1_EAN8	8	EAN-8
BARCODE_GS1_EAN128AB	9	UCC/EAN-128&CC-A/B
BARCODE_GS1_EAN128C	10	UCC/EAN-128&CC-C

unsigned int height

[in] Set the barcode height (1~255). If the barcode is larger than the paper size, the barcode may not be printed. 2-dimensional barcodes are not subject to this value.

unsigned int width

[in] Set the barcode width (2~7). If the barcode is larger than the paper size, the barcode may not be printed. 2-dimensional barcodes are not subject to this value.

unsigned int alignment  
[in] Set the barcode alignment.

Constant	Value	Description
BXL_ALIGNMENT_LEFT	0	Align to the left
BXL_ALIGNMENT_CENTER	1	Align to the center
BXL_ALIGNMENT_RIGHT	2	Align to the right

unsigned int textPosition  
[in] Set the barcode data printing position.  
2-dimensional barcode has only BXL\_BC\_TEXT\_NONE .

Constant	Value	Description
BXL_BC_TEXT_NONE	0	No barcode data is printed.
BXL_BC_TEXT_ABOVE	1	The barcode data is printed above the barcode.
BXL_BC_TEXT_BELOW	2	The barcode data is printed below the barcode.

unsigned int attribute  
[in] Set the separator height of 2D and 1D barcodes when printing GS1 (1 or 2).

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
WRONG_BARCODE_TYPE	-115	The barcode type is not supported.
WRONG_BC_DATA_ERROR	-116	The barcode data is incorrect.

\* Example

```
ConnectToPrinter(.....);

char* barcodeData = "123456789012";
barcodeInfo_s barcodeInfo;

.....

barcodeInfo.height = 50;
barcodeInfo.width = 2;
barcodeInfo.textPosition = BARCODE_TEXT_BELOW;
PrintBarcode(BARCODE_UPCA, barcodeData, &barcodeInfo);

barcodeInfo.height = 50;
barcodeInfo.width = 2;
barcodeInfo.textPosition = BARCODE_TEXT_BELOW;
PrintBarcode(BARCODE_UPCE, barcodeData, &barcodeInfo);

barcodeInfo.height = 50;
barcodeInfo.width = 2;
barcodeInfo.textPosition = BARCODE_TEXT_BELOW;
PrintBarcode(BARCODE_EAN13, barcodeData, &barcodeInfo);
```

```
barcodeInfo.height = 50;
barcodeInfo.width = 2;
barcodeInfo.textPosition = BARCODE_TEXT_BELOW;
PrintBarcode(BARCODE_JAN13, barcodeData, &barcodeInfo);

barcodeInfo.height = 50;
barcodeInfo.width = 2;
barcodeInfo.textPosition = BARCODE_TEXT_BELOW;
PrintBarcode(BARCODE_EAN8, "12345678", &barcodeInfo);

barcodeInfo.height = 50;
barcodeInfo.width = 2;
barcodeInfo.textPosition = BARCODE_TEXT_BELOW;
PrintBarcode(BARCODE_JAN8, "12345678", &barcodeInfo);

barcodeInfo.height = 50;
barcodeInfo.width = 2;
barcodeInfo.textPosition = BARCODE_TEXT_BELOW;
PrintBarcode(BARCODE_CODE39, barcodeData, &barcodeInfo);

barcodeInfo.height = 50;
barcodeInfo.width = 2;
barcodeInfo.textPosition = BARCODE_TEXT_BELOW;
PrintBarcode(BARCODE_CODE93, barcodeData, &barcodeInfo);

barcodeInfo.height = 50;
barcodeInfo.width = 2;
barcodeInfo.textPosition = BARCODE_TEXT_BELOW;
PrintBarcode(BARCODE_CODE128, barcodeData, &barcodeInfo);

barcodeInfo.height = 50;
barcodeInfo.width = 2;
barcodeInfo.textPosition = BARCODE_TEXT_BELOW;
PrintBarcode(BARCODE_ITF, barcodeData, &barcodeInfo);

barcodeInfo.height = 50;
barcodeInfo.width = 2;
barcodeInfo.textPosition = BARCODE_TEXT_BELOW;
PrintBarcode(BARCODE_CODABAR, barcodeData, &barcodeInfo);

// ***** 2D barcode

barcodeInfo.height = 0;
barcodeInfo.width = 2;
barcodeInfo.attribute = 0;
PrintBarcode(BARCODE_PDF417, barcodeData, &barcodeInfo);

barcodeInfo.mode = BARCODE_QR_MODEL1;
barcodeInfo.height = 0;
barcodeInfo.width = 2;
barcodeInfo.attribute = 0;
PrintBarcode(BARCODE_QRCODE, barcodeData, &barcodeInfo);
barcodeInfo.mode = BARCODE_QR_MODEL2;
barcodeInfo.height = 0;
barcodeInfo.width = 2;
barcodeInfo.attribute = 0;
PrintBarcode(BARCODE_QRCODE, barcodeData, &barcodeInfo);
```



```
barcodeInfo.height = 0;  
barcodeInfo.width = 2;  
barcodeInfo.attribute = 0;  
PrintBarcode(BARCODE_DATAMATRIX, barcodeData, &barcodeInfo);
```

```
barcodeInfo.mode = BARCODE_MAXI_MODE4;  
barcodeInfo.height = 0;  
barcodeInfo.width = 2;  
barcodeInfo.attribute = 0;  
PrintBarcode(BARCODE_MAXICODE, barcodeData, &barcodeInfo);
```

**3-12 DirectIO**

- Send and read the user-defined data.

```
int DirectIO(char* writeData, int writeLen, char* readData, int* readLen,  
            unsigned int mTimeout);
```

**[Parameters]**

- \* char\* writeData,  
 [in] Data to be sent to the printer
- \* int writeLen  
 [in] Size of data to be sent to the printer  
 write does not function if 0 is entered to writeData for NULL, writeLen.
- \* char\* readData,  
 [in] Data to be sent to the printer
- \* int\* readLen  
 [in] Read the size of the data to be read by the caller.  
 read does not function if 0 is entered to readData for NULL, readLen.
- \* unsigned int mTimeout  
 [in] ] Waiting time before reading the data. Even if no data has been read, it returns  
 after the set amount of time. If set to 0, it waits until there is incoming data.

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
READ_TIMEOUT	-127	It timed out before reading the data.

\* Example

```
char cmd[3] = { 0x10, 0x04, 0x01};  
char readBuf[20] = {0x00,};  
int readLen;  
  
ConnectToPrinter(.....);  
  
DirectIO(cmd, sizeof(cmd), readBuf, &readLen, 0);  
  
.....
```

**3-13 PrintImage**

- Print image files.

int PrintImage (const char \*imagePath, const int width, const bool compress,  
const unsigned int alignment);

**[Parameters]**

- \* const char \*imagePath  
[in] String for the image file path. JPG, BMP and GIF are supported.
- \* const int width  
[in] Set the width of the print image.
- \* const bool compress  
[in] Set whether to compress RLE image.
- \* const unsigned int alignment  
[in] Set the image alignment.

Constant	Value	Description
ALIGNMENT_LEFT	0	Align to the left
ALIGNMENT_CENTER	1	Align to the center
ALIGNMENT_RIGHT	2	Align to the right

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
IMAGE_OPEN_ERROR	-118	The image file cannot be opened.
MEM_ALLOC_ERROR	-120	The allocation of internal memory failed.

\* Example

```
ConnectToPrinter(.....);  
  
.....  
  
PrintImage(filePath, 150, true, ALIGNMENT_CENTER);  
  
.....
```

**3-14 DownloadNVImage**

- Save images to the non-volatile memory area of the printer.

int DownloadNVImage (const char \*imagePath, const unsigned int keyCode);

**[Parameters]**

- \* const char \*imagePath  
[in] String for the image file path. JPG, BMP and GIF are supported.
- \* const unsigned int keyCode  
[in] Address of the memory area where image is stored (0 ~ 255).

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
IMAGE_OPEN_ERROR	-118	The image file cannot be opened.
MEM_ALLOC_ERROR	-120	The allocation of internal memory failed.

\* Example

```
ConnectToPrinter(.....);  
  
.....  
  
DownloadNVImage(filePath, 0x01);  
  
.....
```

**3-15 PrintNVImage**

- Print the images stored in the non-volatile memory area of the printer.

int PrintNVImage (const unsigned int keyCode);

**[Parameters]**

- \* const unsigned int keyCode  
[in] Address code of the image to be printed (0 ~ 255)

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.

\* Example

```
ConnectToPrinter(.....);  
  
.....  
  
DownloadNVImage(filePath, 0x01);  
  
.....  
  
PrintNVImage(0x01);
```

**3-16 RemoveAllNVImage**

- Remove all the images stored in the non-volatile memory area of the printer.

```
int RemoveAllNVImage ();
```

**[Parameters]**

None

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
NOT_SUPPORT	-124	The function is not supported.

\* Example

```
ConnectToPrinter(.....);  
.....  
RemoveAllNVImage();
```

**3-17 RemoveNVImage**

- Remove all the images with the specified address stored in the non-volatile memory area of the printer.

int RemoveNVImage (const unsigned int keyCode);

**[Parameters]**

- \* const unsigned int keyCode  
[in] Address code of the image to be printed (0 ~ 255)

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
NOT_SUPPORT	-124	The function is not supported.

\* Example

```
ConnectToPrinter(.....);  
  
DownloadNVImage(filePath, 0x01);  
.....  
RemoveNVImage(0x01);
```

**3-18 GetNVImageKeyCode**

- Read the address list of the images stored in the non-volatile memory area of the printer.

int GetNVImageKeyCode (char \*keyCodeList, unsigned int \*listLen);

**[Parameters]**

- \* char \*keyCodeList  
[in, out] Buffer to save the list of image address
- \* unsigned int \*listLen  
[in, out] Length of keyCodeList

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
NV_NO_KEY	-121	No NV key is defined.
WRONG_RESPONSE	-122	Incorrect NV data response
NOT_SUPPORT	-124	The function is not supported.

\* Example

```
char keyList[128] = {0x00, };  
unsigned int listLen = 0;  
int ret;  
  
ConnectToPrinter(.....);  
  
DownloadNVImage(filePath, 0x01);  
  
.....  
  
ret = GetNVImageKeyCode(keyList, &listLen);
```



**3-19 SetAutoStatusCheck**

- Enable/disable ASB mode to check the printer status (cover open, no paper).

int SetAutoStatusCheck(bool enable);

**[Parameters]**

- \* bool enable  
[in] Enable/disable ASB mode.

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.

\* Example

```
int status = 0x00;

ConnectToPrinter(.....);

SetAutoStatusCheck(true);

.....

status = GetStatus();
.....

if ((status & BXL_STS_PAPEREMPTY) == BXL_STS_PAPEREMPTY)
    .....
```

**3-20 GetStatus**

- Read the printer status (cover open, no paper).

int GetStatus()

**[Parameters]**

None

**[Return Values]**

Constant	Value	Description
STS_NORMAL	0	The printer status is normal.
STS_PAPEREMPTY	1	There is no paper.
STS_COVEROPEN	2	The paper cover is open.
STS_NEAREND	4	The paper is low (Near end).

\* Example

```
int status = 0x00;

ConnectToPrinter(.....);

SetAutoStatusCheck(true);

.....

status = GetStatus();

.....

if ((status & STS_PAPEREMPTY) == STS_PAPEREMPTY)
    .....
```

**3-21 SelectMode**

- Select Label/Receipt Mode. Only mobile printers are supported.

int SelectMode(bool labelMode);

**[Parameters]**

- \* bool labelMode  
[in] Send whether to use Label Mode.  
If the value is TRUE, the label mode is selected.

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
NOT_SUPPORT	-124	The function is not supported.

\* Example

```
ConnectToPrinter(.....);  
  
.....  
  
// Select Label Mode  
if (SelectMode(true) != SUCCESS)  
    return;  
  
NextPrintPos();  
  
// Select Receipt Mode  
if (SelectMode(false) != SUCCESS)  
    return;  
  
.....
```

**3-22 NextPrintPos**

- Feed the paper to the starting point of the next label paper.  
The function is only enabled if the mobile printer is set to label mode.

int NextPrintPos();

**[Parameters]**

None

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
NOT_SUPPORT	-124	The function is not supported.

\* Example

```
ConnectToPrinter(.....);  
  
.....  
  
if (SelectMode(true) != SUCCESS)  
    return;  
  
NextPrintPos();  
  
.....
```

**3-23 AutoCalibration**

- Perform Auto Calibration if set to Label Mode. The function is only enabled if the mobile printer is set to label mode.

int AutoCalibration();

**[Parameters]**

None

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
NOT_SUPPORT	-124	The function is not supported.

\* Example

```
ConnectToPrinter(.....);  
  
.....  
  
if (SelectMode(true) != SUCCESS)  
    return;  
  
AutoCalibration();  
  
.....
```

**3-24 SelectPageMode**

- Enable/disable Page Mode.

```
int SelectPageMode(bool pageMode);
```

**[Parameters]**

\* bool pageMode  
[in] Set whether to use Page Mode.  
Page Mode is selected if set to TRUE.

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
NOT_SUPPORT	-124	The function is not supported.

\* Example

```
ConnectToPrinter(.....);  
  
.....  
  
// Select Page Mode  
if (SelectPageMode(true) != SUCCESS)  
    return;  
  
.....  
  
// Select Standard Mode  
if (SelectPageMode(false) != SUCCESS)  
    return;  
  
.....
```

**3-25 PrintDataInPM**

- Prints all the data in the printer buffer if set to Page Mode and the printer is switched to Standard Mode after printing.

int PrintDataInPM();

**[Parameters]**

None

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
NOT_SUPPORT	-124	The function is not supported.

\* Example

```
ConnectToPrinter(.....);  
  
.....  
  
// Select Page Mode  
if (SelectPageMode(true) != SUCCESS)  
    return;  
  
.....  
  
PrintDataInPM();
```

**3-26 SetPrintAreaInPM**

- Sets the size and position of the printing area when set to Page Mode.

int SetPrintAreaInPM (long x, long y, long width, long height);

**[Parameters]**

- \* long x  
[in] x-coordinates of the printing area
- \* long y  
[in] y-coordinates of the printing area
- \* long width  
[in] width of the printing area
- \* long height  
[in] height of the printing area

Width of 58mm: x = 0, y = 0, width = 384, height = 840

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
BAD_ARGUMENT	-117	The specified argument is not correct.
NOT_SUPPORT	-124	The function is not supported.

\* Example

```
ConnectToPrinter(.....);  
  
.....  
  
// Select Page Mode  
if (SelectPageMode(true) != SUCCESS)  
    return;  
  
SetPrintAreaInPM(0, 0, 416, 416);  
  
.....  
  
PrintDataInPM();
```



**3-27 SetPrintDirectionInPM**

- Set the printing direction in the Page Mode.

int SetPrintDirectionInPM (int printDirection);

**[Parameters]**

\* int printDirection

Constant	Value	Direction	Starting Position	Rotation
PAGEMODE_ROTATE_0	48	Left -> Right	Top left	0 degree
PAGEMODE_ROTATE_90	51	Top -> Bottom	Top right	90 degrees
PAGEMODE_ROTATE_180	50	Right -> Left	Bottom right	180 degrees
PAGEMODE_ROTATE_270	49	Bottom -> Top	Bottom left	270 degrees

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
BAD_ARGUMENT	-117	The specified argument is not correct.
NOT_SUPPORT	-124	The function is not supported.

\* Example

```
ConnectToPrinter(.....);  
  
.....  
  
// Select Page Mode  
if (SelectPageMode(true) != SUCCESS)  
    return;  
  
SetPrintAreaInPM(0, 0, 416, 416);  
SetPrintDirectionInPM(PAGEMODE_ROTATE_90);  
  
.....  
  
PrintDataInPM();
```

**3-28 SetVerticalPositionInPM**

- Set the vertical position for printing in the Page Mode.

int SetVerticalPositionInPM (long position, bool relative);

**[Parameters]**

- \* long position  
[in] Starting position to be set
- \* bool relative  
[in] Set whether it is relative or absolute position from the current position.  
If TRUE, it is set to relative position.

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
BAD_ARGUMENT	-117	The specified argument is not correct.
NOT_SUPPORT	-124	The function is not supported.

\* Example

```
ConnectToPrinter(.....);  
  
.....  
  
// Select Page Mode  
if (SelectPageMode(true) != SUCCESS)  
    return;  
  
SetPrintAreaInPM(0, 0, 416, 416);  
SetPrintDirectionInPM(PAGEMODE_ROTATE_90);  
  
SetVerticalPositionInPM(160, false);  
SetHorizontalPositionInPM(40);  
PrintText("Bixelon Printer.", ALIGNMENT_CENTER, ATTR_FONTTYPE_A,  
          TS_WIDTH_0 | TS_HEIGHT_0);  
  
.....  
  
PrintDataInPM();
```

**3-29 SetHorizontalPositionInPM**

- Set the horizontal position for printing.

int SetHorizontalPositionInPM (long position, bool relative);

**[Parameters]**

- \* long position  
[in] Starting position to be set
- \* bool relative  
[in] Set whether it is relative or absolute position from the current position.  
If TRUE, it is set to relative position.

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
BAD_ARGUMENT	-117	The specified argument is not correct.
NOT_SUPPORT	-124	The function is not supported.

\* Example

```
ConnectToPrinter(.....);  
  
.....  
  
// Select Page Mode  
if (SelectPageMode(true) != SUCCESS)  
    return;  
  
SetPrintAreaInPM(0, 0, 416, 416);  
SetPrintDirectionInPM(PAGEMODE_ROTATE_90);  
  
SetVerticalPositionInPM(160, false);  
SetHorizontalPositionInPM(40, false);  
PrintText("Bixelon Printer.", ALIGNMENT_CENTER, ATTR_FONTTYPE_A,  
          TS_WIDTH_0 | TS_HEIGHT_0);  
  
.....  
  
PrintDataInPM();
```

**3-30 ReadStartMSR**

- Switch the printer status to MSR Ready. If it returns SUCCESS, it is identified as normal. Only mobile printers are supported.

long ReadStartMSR();

**[Parameters]**

None

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
NOT_SUPPORT	-124	MSR function is not supported.
WRITE_ERROR	-105	Data transmission failed.

\* Example

```
int ret;

ConnectToPrinter(.....);

ret = ReadStartMSR();

if (SUCCESS != ret)
    return;

.....
```

**3-31 ReadCancelMSR**

- Disable the MSR Ready status. Only mobile printers are supported.

long ReadCancelMSR();

**[Parameters]**

None

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
NOT_SUPPORT	-124	MSR function is not supported.

\* Example

```
ConnectToPrinter(.....);  
  
ret = ReadStartMSR();  
  
if (SUCCESS != ret)  
    return;  
  
.....  
  
ReadCancelMSR();  
  
.....
```

**3-32 ReadMSRData**

- Read the MSR data. When the data is read, it returns the data value otherwise the read mode can be canceled using ReadCancelMSR. Only mobile printers are supported.

```
long ReadMSRData(char *pMSRData1, char *pMSRData2, char *pMSRData3,
                 const unsigned int bufLen);
```

**[Parameters]**

- \* char \*pMSRData1  
[out] Read MSR Data Track 1 to the buffer defined by the caller.
- \* char \*pMSRData2  
[out] Read MSR Data Track 2 to the buffer defined by the caller.
- \* char \*pMSRData3  
[out] Read MSR Data Track 3 to the buffer defined by the caller.
- \* const unsigned int bufLen  
[in] Buffer size of pMSRData1, pMSRData2, and pMSRData3 buf

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
NOT_SUPPORT	-124	MSR function is not supported.

\* Example

```
ConnectToPrinter(.....);
.....

ret = ReadStartMSR();

if (SUCCESS != ret)
    return;

char track1[120] = {0x00, };
char track2[120] = {0x00, };
char track3[120] = {0x00, };

ret = ReadMSRData(track1, track2, track3, sizeof(track1));

if (SUCCESS == ret)
    .....
else
    .....
```

**3-33 ScrPowerUp**

- Turn on the SCR. This function is only available on SPP-R210 SCR.

long ScrPowerUp(char \*pATR, unsigned int \*ATRLen, char \*pResponse);

**[Parameters]**

\* char \*pATR  
[in, out] ATR(Answer To Reset) data

\* unsigned int \*ATRLen  
[in, out] ATR data length

\* char \*pResponse  
[in, out] Response to power up

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
BAD_ARGUMENT	-117	The specified argument is not correct.
NOT_SUPPORT	-124	The function is not supported.
SCR_RESPONSE_ERROR	-126	The response data is incorrect.

\* Example

```
int ret;
char response = 0xff;
char pATR[512] = {0x00,};
unsigned int atrLen = 512;

ConnectToPrinter(.....);

.....

ret = ScrPowerUp(pATR, &atrLen, &response);

if (0x00 != scrData.ResponseS)
    return;

.....
```

**3-34 ScrPowerDown**

- Turn off the SCR. This function is only available on SPP-R210 SCR.

long ScrPowerDown(char \*pResponse);

**[Parameters]**

\* char \*pResponse  
[in, out] Response to power up

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
BAD_ARGUMENT	-117	The specified argument is not correct.
NOT_SUPPORT	-124	The function is not supported.
SCR_RESPONSE_ERROR	-126	The response data is incorrect.

\* Example

```
int ret;
char response = 0xff;

ConnectToPrinter(.....);

.....

ret = ScrPowerDown(&response);

if (0x00 != response)
    return;

.....
```



**3-35 ScrOperationMode**

- Set the operation mode. This function is only available on SPP-R210 SCR.

long ScrOperationMode(uint mode, char \*pResponse);

**[Parameters]**

- \* UINT mode  
[in] Operating mode.

Constant	Value	Description
SCR_MODE_APDU	0	APDU mode
SCR_MODE_TPDU	1	TPDU mode

- \* char \*pResponse  
[in, out] Response to power up

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
NOT_SUPPORT	-124	The function is not supported.
SCR_RESPONSE_ERROR	-126	The response data is incorrect.

\* Example

```
int ret;
char response = 0xff;

ConnectToPrinter(.....);

.....

ret = ScrOperationMode(SCR_MODE_APDU, &response);

if (0x00 != response)
    return;

.....
```

**3-36 ScrExchangeAPDU**

- Enable APDU/TPDU data communication.  
This function is only available on SPP-R210 SCR.

```
long ScrExchangeAPDU (const char *APDUCmd, unsigned int APDULen,
                    char *APDURsp, unsigned int *APDURspLen, char *pResponse);
```

**[Parameters]**

- \* const char \*APDUCmd  
[in] APDU data command
- \* unsigned int APDULen  
[in] APDU command length
- \* char \*APDURsp  
[in, out] APDU data response
- \* unsigned int APDURspLen  
[in, out] APDU response length
- \* char \*pResponse  
[in, out] Response to power up

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
NOT_SUPPORT	-124	The function is not supported.
SCR_RESPONSE_ERROR	-126	The response data is incorrect.

\* Example

```
int ret;
char response = 0xff;
char cmdAPDU[512] = {0x00, };
char rspAPDU[512] = {0x00, };
unsigned int cmdLen, rspLen;

ConnectToPrinter(.....);

.....

scrData = ScrExchangeAPDU(cmdAPDU, cmdLen, rspAPDU, rspLen, &response);

if (0x00 != response)
    return;

.....
```

**3-37 ScrCheckStatus**

- Check the smart card status. This function is only available on SPP-R210 SCR.

long ScrCheckStatus (char \*status, char \*pResponse);

**[Parameters]**

- \* char \*status  
[in, out] Smart card status data
- \* char \*pResponse  
[in, out] Response to the command

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
NOT_SUPPORT	-124	The function is not supported.
SCR_RESPONSE_ERROR	-126	The response data is incorrect.

\* Example

```
int ret;
char response = 0xff;
char status = 0x00;

ConnectToPrinter(.....);

.....

ret = ScrCheckStatus(&status, &response);

if (0x00 != response)
    return;

.....
```

**3-38 ScrSelectCard**

- Select Smart card, SAM1 and SAM2 for communication.  
This function is only available on SPP-R210 SCR.

long ScrSelectCard (uint card, char \*pResponse);

**[Parameters]**

- \* UINT card  
[in] Smart card for communication

Constant	Value	Description
SCR_SMARTCARD	48	Set Smart card for communication.
SCR_SAM1	49	Set SAM1 for communication.
SCR_SAM2	50	Set SAM2 for communication.

- \* char \*pResponse  
[in, out] Response to the command

**[Return Values]**

Constant	Value	Description
SUCCESS	0	The function is successful.
WRITE_ERROR	-105	Data transmission failed.
NOT_SUPPORT	-124	The function is not supported.
SCR_RESPONSE_ERROR	-126	The response data is incorrect.

\* Example

```
int ret;
char response = 0xff;

ConnectToPrinter(.....);

.....

ret = ScrSelectCard(SCR_SMARTCARD, &response);

if (0x00 != response)
    return;

.....
```

**3-39 getBatteryStatus**

- Read the SRP-Q300/SRP-Q302 Printer Battery status (FULL, HIGH, MIDDLE, LOW).

int getBatteryStatus();

**[Parameters]**

None

**[Return Values]**

Constant	Value	Description
SUCCESS	0 to 3	The function is successful. 0 : Battery Full 1 : Battery High 2 : Battery Middle 3 : Battery Low
READ_TIMEOUT	-1	No status data

\* Example

```
int status = 0x00;  
  
ConnectToPrinter(.....);  
  
.....  
  
status = getBatteryStatus();  
.....
```

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## Caution

Some semiconductor devices are easily damaged by static electricity. You should turn the printer "OFF", before you connect or remove the cables on the rear side, in order to guard the printer against the static electricity. If the printer is damaged by the static electricity, you should turn the printer "OFF".

