[ZPL Windows SDK]

[Printer ZPL Command Development Manual v1.4]

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1. Information of the Manual

This SDK manual provides the dll file information for Windows application development.

We continuously promote and update the function and quality of all our products. Any change to the product specification and the manual will be without any further notice.

2. Operation System

- Windows 2003/XP/7/8/10

3. Remark

- When error code Return Value is greater than 0, it is the internal error of Windows system, please refer to related help file.

4. Method

4.1 PrinterCreator

Set up the target printer of specified model (should create target printer before using any function).

int PrinterCreator(

void* *handle,*

const TCHAR* *model*

);

Parameter：

void handle*
[in,out] The created target printer object.
const TCHAR model*
[in] Specify the model of target printer.

Return Value：

Error Code	**Value**	**Description**
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_INVALID_MODEL	-8	Invalid model name

4.2 PrinterCreatorS

Set up the target printer of specified model, the function is same to PrinterCreator (should create target printer before using any function).

void* PrinterCreatorS(

const TCHAR* *model*

);

Parameter：

const TCHAR model*
[in] Specify the model of target printer

Return：

Success : return the handle of printer object.

Fail: return NULL, invalid handle.

4.3 PrinterDestroy

Release the resource of specified model printer that has set up (after operation completed and no more operation for printer, it should release the printer that has set up).

```
int PrinterDestroy(

        void* handle

);
```

Parameter：

void handle*

[in] The handle of target printer object which needs to release.

Return Value：

Error Code	**Value**	**Description**
E_SUCCESS	0	Normal
E_BAD_HANDLE	-6	Invalid handle

4.4 PortOpen

Open the communication port and connect with the printer. After successfully connected, other functions can be used. If failed connecting, please check the error information.

int PortOpen(

  void* *handle,*

  const TCHAR* *ioSettings*

);

Parameter：

void handle*
  [in,out] The created target printer object.
const TCHAR ioSettings*
  [in] Set up the parameter of communication port that connected to the target printer.Please see as below:

Configuration List：

Type	Configuration	Description	Sample
USB	**USB***[,Position/Model/PortNum]*	USB：connect any USB printer of our company USB*[,Position]*：When connecting to multi printers of our company, can specify connecting to one particular USB printer through USB position information (Position parameter)	USB USB,Port_#0004.Hub_#0003 USB,LPG4 USB,USB001
NET	**NET**, *IP Add (IPV4)[,Port]*	Specify the IP add and port of internet printer. If not specifying port, the default port is 9100.	NET,192.168.0.36 NET,192.168.0.36,9100
COM	**COM*n*,**BAUDRATE_*rate*	Specify the number and baud rate of connected serial port .	COM5,BAUDRATE_19200
LPT	**LPTn**	Specify the number of connected parallel port.	LPT1

Note：[ ] indicates selective parameter

*If you connect to many different printers of our company at the same time,it is recommended to connect them by”USB,model”.

Return Value：

Error Code	**Value**	**Description**
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_OPEN_FAILED	-311	Port open failed

4.5 PortClose

This function is to close the communication port and disconnect with the printer.

int PortClose(

  void* *handle*

);

Parameter：

void handle*
  [in,out] The created target printer object.

Return Value：

Error Code	**Value**	**Description**
E_SUCCESS	0	Normal
E_BAD_HANDLE	-6	Invalid handle

4.6 WriteData

This function is to send data to the printer.

int WriteData(

void* *handle,*

unsigned char* *writeData,*

unsigned int *writeNum*

);

Parameter：

void handle*
[in,out] The created target printer object.
unsigned char writeData*
[in] The data sent to the printer (hex string).
unsigned int writeNum
[in] The length of the data sent.

Return Value：

Error Code	**Value**	**Description**
E_SUCCESS	0	Normal
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout
E_IO_READ_FAILED	-331	Read failed
E_IO_READ_TIMEOUT	-332	Read timeout

4.7 ReadData

This function is to read the printer data.

int ReadData(

void* *handle,*

unsigned char* *readData,*

unsigned int *readNum,*

unsigned int* *preadedNum*

);

Parameter：

void handle*
[in,out] The created target printer object.
unsigned char readData*
[in] Printer data that needs to be read.
unsigned int readNum
[in] The length of data that needs to be read.
unsigned int preadedNum*
[in] The length of the data actually read.

Return Value：

Error Code	Value	Description
E_SUCCESS	0	Normal
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_READ_FAILED	-331	Read failed
E_IO_READ_TIMEOUT	-332	Read timeout

4.8 DirectIO

This function is for the user to customize the data sent and read by the printer. If some functions do not provide a function interface, the user can send command data to the printer through this interface.

int DirectIO(

void* handle,

unsigned char* writedata,

unsigned int writeNum,

unsigned char* readdata,

unsigned int readNum,

unsigned int* preadedNum

);

Parameter：

void handle*
[in,out] The created target printer object.
unsigned char writedata*
[in] The data written to the printer.
unsigned int writeNum
[in] The length of the data written to the printer.
When writeNum=0, the write data operation is not performed.
unsigned char readdata*
[in,out] Get the data returned by the printer.
unsigned int readNum
[in] Preset the length of data that needs to be read.
When readNum=0, the read data operation is not performed.
unsigned int preadedNum*
[in,out] The length of the data actually read.

Return Value：

Error Code	Value	Description
E_SUCCESS	0	Normal
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout
E_IO_READ_FAILED	-331	Read failed
E_IO_READ_TIMEOUT	-332	Read timeout

4.9 ZPL_StartFormat

This function is to indicate the beginning of a new label format.

int ZPL_StartFormat(

void* *handle*

);

Parameter：

void handle*
[in,out] The created target printer object.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.10 ZPL_EndFormat

This function is to indicate the end of a label format.

int ZPL_EndFormat(

void* *handle*

);

Parameter：

void handle*
[in,out] The created target printer object.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.11 ZPL_ScalableFontText

This function is to print scalable fonts.

int ZPL_ScalableFontText(

void* *handle,*

int *xPos,*

int *yPos,*

char *fontName,*

int *orientation,*

int *fontWidth,*

int *fontHeight,*

char* *text*

);

Parameter：

void handle*
[in,out] The created target printer object.
int xPos
[in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
[in] Vertical starting position (range: 0-32000,unit:dot).
char fontName
[in] Font(range: A-Z and 0-9).
int orientation
[in] Print direction.
0 : normal
90 : Rotate 90 degrees clockwise
180: Rotate 180 degrees clockwise
270: Rotate 270 degrees clockwise

int fontWidth

[in] Font width.

int fontHeight

[in] Font height.

char text*

[in]Text data.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.12 ZPL_Text

This function is to print text.

```
int ZPL_Text(
    void* handle,
    int xPos,
    int yPos,
    int fontNum,
    int orientation,
    int fontWidth,
    int fontHeight,
    char* text
);
```

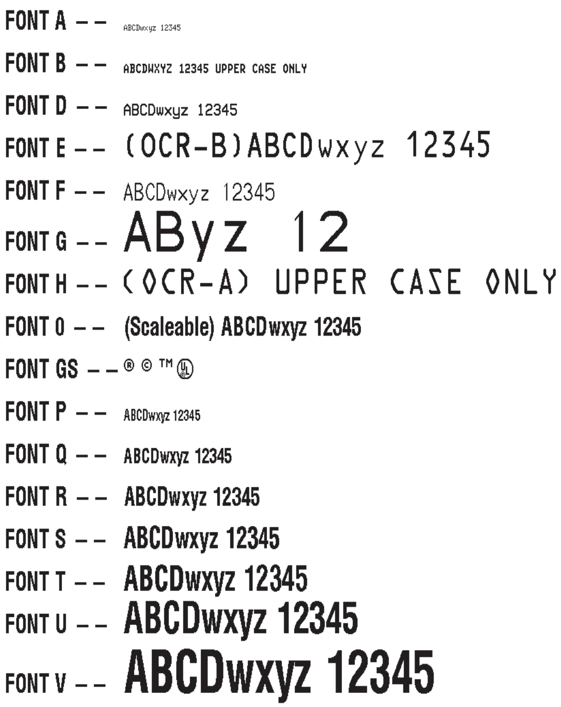
Parameter：

void handle*
 [in,out] The created target printer object.
int xPos
 [in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
 [in] Vertical starting position (range: 0-32000,unit:dot).

int fontNum

[in] Font.

0 : FONT 0 - Scalable font
1 : FONT A - Bitmap font
2 : FONT B - Bitmap font
3 : FONT D - Bitmap font
4 : FONT E - Bitmap font
5 : FONT F - Bitmap font
6 : FONT G - Bitmap font
7 : FONT H - Bitmap font
8 : FONT GS - Bitmap font
9 : FONT P - Bitmap font
10 : FONT Q - Bitmap font
11 : FONT R - Bitmap font
12 : FONT S - Bitmap font
13 : FONT T - Bitmap font
14 : FONT U - Bitmap font
15 : FONT V - Bitmap font
16 : SIMSUN.TTF – Song font
17 : FONT Z - Vietnam font



FONT A -- ABCDwxyz 12345
FONT B -- ABCDWXYZ 12345 UPPER CASE ONLY
FONT D -- ABCDwxyz 12345
FONT E -- (OCR-B)ABCDwxyz 12345
FONT F -- ABCDwxyz 12345
FONT G -- AByz 12
FONT H -- (OCR-A) UPPER CASE ONLY
FONT 0 -- (Scaleable) ABCDwxyz 12345
FONT GS --® © ™ Ⓤ
FONT P -- ABCDwxyz 12345
FONT Q -- ABCDwxyz 12345
FONT R -- ABCDwxyz 12345
FONT S -- ABCDwxyz 12345
FONT T -- ABCDwxyz 12345
FONT U -- ABCDwxyz 12345
FONT V -- ABCDwxyz 12345

int orientation

[in] Print direction.

0 : normal
90 : Rotate 90 degrees clockwise
180: Rotate 180 degrees clockwise
270: Rotate 270 degrees clockwise

int fontWidth

[in] Font width.

int fontHeight

[in] Font height.

Note: When FONT Z is selected, the minimum width and height are 12*24, and can only be multiplied.

char text*

[in]Text data.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.13 ZPL_BarCode39

This function is to print Barcode39 barcodes.

int ZPL_BarCode39(

void* *handle,*

int *xPos,*

int *yPos,*

int *orientation,*

int *moduleWidth,*

int *codeHeight,*

char *line,*

char *lineAboveCode,*

char *digit,*

char* *text*

);

Parameter：

void handle*
[in,out] The created target printer object.
int xPos
[in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
[in] Vertical starting position (range: 0-32000,unit:dot).
int orientation
[in] Print direction.
0 : normal
90 : Rotate 90 degrees clockwise
180: Rotate 180 degrees clockwise
270: Rotate 270 degrees clockwise

int moduleWidth

[in] Bar code width (range: 0-10,unit:dot).

int codeHeight

[in] Bar code height(range: 1-32000,unit:dot).

char line

[in] Comment line.
'N': not print
'Y': print

char lineAboveCode

[in] The comment line above the barcode.
'N': not print above the barcode
'Y': print above the barcode

char digit

[in] Check Digit.
'N': do not print check digit
'Y': print check digit

char text*

[in] Text data.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.14 ZPL_Pdf417

This function is to print the Pdf417 code.

int ZPL_Pdf417(

void* *handle,*

int *xPos,*

int *yPos,*

int *orientation,*

int module*Width,*

int code*Height,*

int *securityLevel,*

int *column,*

int *rows,*

char *truncate,*

char* *text*

);

Parameter：

void handle*
[in,out]The created target printer object.
int xPos
[in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
[in] Vertical starting position (range: 0-32000,unit:dot).

int orientation

[in] Print direction.

0 : normal

90 : Rotate 90 degrees clockwise

180: Rotate 180 degrees clockwise

270: Rotate 270 degrees clockwise

int moduleWidth

[in] Bar code width (range: 0-10,unit:dot).

int codeHeight

[in] Bar code height(range: 1-32000,unit:dot).

int securityLevel

[in] Security level (range:1-8).

int column

[in] The number of columns to encode.

int rows

[in] The number of rows to encode.

char truncate

[in] Truncated layer indication and stop mode.

'N': not truncated

'Y': execution truncation

char text*

[in] QR code data.

Return value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.15 ZPL_CodeEan8

This function is to print CodeEan8 barcodes.

int ZPL_CodeEan8(

void* *handle,*

int *xPos,*

int *yPos,*

int *orientation,*

int *moduleWidth,*

int *codeHeight,*

char *line,*

char *lineAboveCode,*

char* *text*

);

Parameter：

void handle*
[in,out]The created target printer object.
int xPos
[in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
[in] Vertical starting position (range: 0-32000,unit:dot).
int orientation
[in] Print direction.
0 : normal
90 : Rotate 90 degrees clockwise
180: Rotate 180 degrees clockwise
270: Rotate 270 degrees clockwise
int moduleWidth
[in] Bar code width (range: 0-10,unit:dot).

int codeHeight

[in] Bar code height(range: 1-32000,unit:dot).

char line

[in] Comment line.

'N': not print

'Y': print

char lineAboveCode

[in] The comment line above the barcode.

'N': not print above the barcode

'Y': print above the barcode

char text*

[in] Text data.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.16 ZPL_UpceCode

This function is to print UPC-E barcodes.

int ZPL_UpceCode(

void* *handle,*

int *xPos,*

int *yPos,*

int *orientation,*

int *moduleWidth,*

int *codeHeight,*

char *line,*

char *lineAboveCode,*

char* *text*

);

Parameter：

void handle*
[in,out]The created target printer object.
int xPos
[in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
[in] Vertical starting position (range: 0-32000,unit:dot).
int orientation
[in] Print direction.
0 : normal
90 : Rotate 90 degrees clockwise
180: Rotate 180 degrees clockwise
270: Rotate 270 degrees clockwise

int moduleWidth

[in] Bar code width (range: 0-10,unit:dot).

int codeHeight

[in] Bar code height(range: 1-32000,unit:dot).

char line

[in] Comment line.

‘N’: not print

‘Y’: print

char lineAboveCode

[in] The comment line above the barcode.

‘N’: not print above the barcode

‘Y’: print above the barcode

char text*

[in] Text data.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.17 ZPL_BarCode93

This function is to print Barcode93 barcodes.

int ZPL_BarCode93(

void* *handle,*

int *xPos,*

int *yPos,*

int *orientation,*

int *moduleWidth,*

int *codeHeight,*

char *line,*

char *lineAboveCode,*

char *digit,*

char* *text*

);

Parameter：

void handle*
[in,out] The created target printer object.
int xPos
[in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
[in] Vertical starting position (range: 0-32000,unit:dot).
int orientation
[in] Print direction.
0 : normal
90 : Rotate 90 degrees clockwise
180: Rotate 180 degrees clockwise
270: Rotate 270 degrees clockwise

int moduleWidth

[in] Bar code width (range: 0-10,unit:dot).

int codeHeight

[in] Bar code height(range: 1-32000,unit:dot).

char line

[in] Comment line.

‘N’: not print

‘Y’: print

char lineAboveCode

[in] The comment line above the barcode.

‘N’: not print above the barcode

‘Y’: print above the barcode

char digit

[in] Check Digit.

‘N’: do not print check digit

‘Y’: print check digit

char text*

[in] Text data.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.18 ZPL_BarCode128

This function is to print Barcode128 barcodes.

int ZPL_BarCode128(

void* *handle,*

int *xPos,*

int *yPos,*

int *orientation,*

int *moduleWidth,*

int *codeHeight,*

char *line,*

char *lineAboveCode,*

char *checkDigit,*

char *mode,*

char* *text*

);

Parameter：

void handle*
[in,out] The created target printer object.
int xPos
[in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
[in] Vertical starting position (range: 0-32000,unit:dot).

int orientation

[in] Print direction.

0 : normal

90 : Rotate 90 degrees clockwise

180: Rotate 180 degrees clockwise

270: Rotate 270 degrees clockwise

int moduleWidth

[in] Bar code width (range: 0-10,unit:dot).

int codeHeight

[in] Bar code height(range: 1-32000,unit:dot).

char line

[in] Comment line.

'N': not print

'Y': print

char lineAboveCode

[in] The comment line above the barcode.

'N': not print above the barcode

'Y': print above the barcode

char checkDigit

[in] UCC check Digit.

'N': do not print check digit

'Y': print check digit

char mode

[in] Mode.

'N': no choice mode

'U': UCC matching mode

'A': automatic mode

'D': UCC/EAN mode

char text*

[in] Text data.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.19 ZPL_CodeEan13

This function is to print CodeEan13 barcodes.

int ZPL_CodeEan13(

void* *handle,*

int *xPos,*

int *yPos,*

int *orientation,*

int *moduleWidth,*

int *codeHeight,*

char *line,*

char *lineAboveCode,*

char* *text*

);

Parameter：

void handle*
[in,out]The created target printer object.
int xPos
[in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
[in] Vertical starting position (range: 0-32000,unit:dot).
int orientation
[in] Print direction.
0 : normal
90 : Rotate 90 degrees clockwise
180: Rotate 180 degrees clockwise
270: Rotate 270 degrees clockwise

int moduleWidth

[in] Bar code width (range: 0-10,unit:dot).

int codeHeight

[in] Bar code height(range: 1-32000,unit:dot).

char line

[in] Comment line.

'N': not print

'Y': print

char lineAboveCode

[in] The comment line above the barcode.

'N': not print above the barcode

'Y': print above the barcode

char text*

[in] Text data.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.20 ZPL_MicroPdf417

This function is to print MicroPdf417 codes.

int ZPL_MicroPdf417(

void* *handle,*

int *xPos,*

int *yPos,*

int *orientation,*

int *moduleWidth,*

int *codeHeight,*

int mode,

char* *text*

);

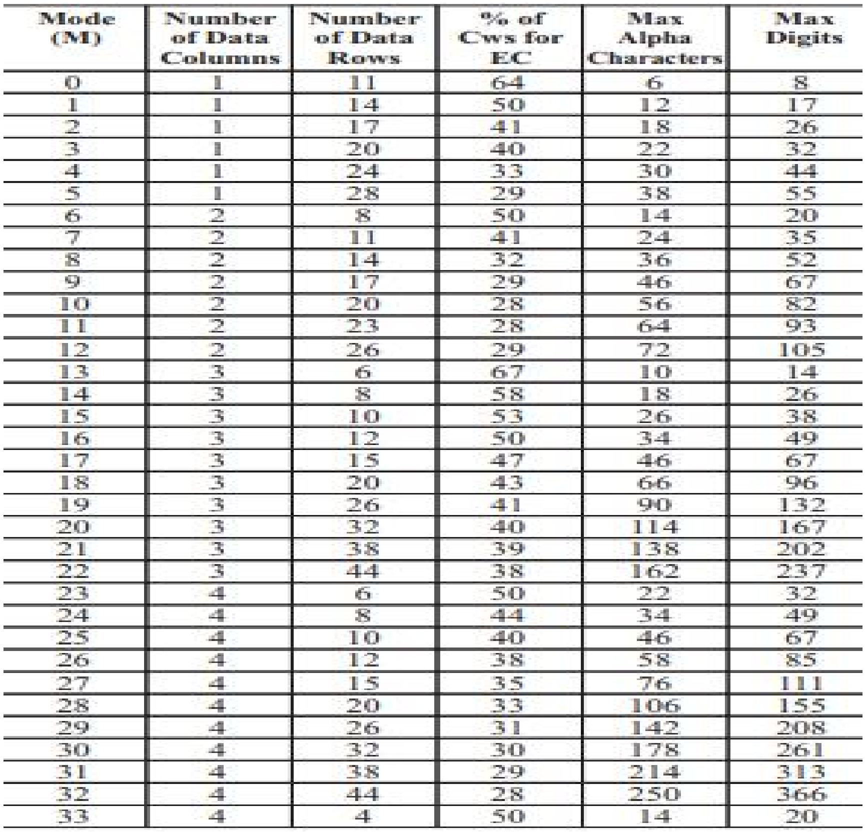
Parameter：

void handle*
[in,out]The created target printer object.
int xPos
[in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
[in] Vertical starting position (range: 0-32000,unit:dot).
int orientation
[in] Print direction.
0 : normal
90 : Rotate 90 degrees clockwise
180: Rotate 180 degrees clockwise
270: Rotate 270 degrees clockwise

int moduleWidth
[in] Bar code width (range: 0-10,unit:dot).
int codeHeight
[in] Bar code height(range: 1-32000,unit:dot).

int mode

[in] Mode(range: 0-33).



Mode (M)	Number of Data Columns	Number of Data Rows	% of Cws for EC	Max Alpha Characters	Max Digits
0	1	11	64	6	8
1	1	14	50	12	17
2	1	17	41	18	26
3	1	20	40	22	32
4	1	24	33	30	44
5	1	28	29	38	55
6	2	8	50	14	20
7	2	11	41	24	35
8	2	14	32	36	52
9	2	17	29	46	67
10	2	20	28	56	82
11	2	23	28	64	93
12	2	26	29	72	105
13	3	6	67	10	14
14	3	8	58	18	26
15	3	10	53	26	38
16	3	12	50	34	49
17	3	15	47	46	67
18	3	20	43	66	96
19	3	26	41	90	132
20	3	32	40	114	167
21	3	38	39	138	202
22	3	44	38	162	237
23	4	6	50	22	32
24	4	8	44	34	49
25	4	10	40	46	67
26	4	12	38	58	85
27	4	15	35	76	111
28	4	20	33	106	155
29	4	26	31	142	208
30	4	32	30	178	261
31	4	38	29	214	313
32	4	44	28	250	366
33	4	4	50	14	20

char text*

[in] Text data.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.21 ZPL_QRCode

This function is to print a QR code.

int ZPL_QRCode(

void* *handle,*

int *xPos,*

int *yPos,*

int *orientation,*

int *model,*

int *dpi,*

char *eccLevel，*

int *maskMode，*

char* *text*

);

Parameter：

void handle*
[in,out] The created target printer object.
int xPos
[in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
[in] Vertical starting position (range: 0-32000,unit:dot).
int orientation
[in] Print direction.
0 : normal
90 : Rotate 90 degrees clockwise
180: Rotate 180 degrees clockwise
270: Rotate 270 degrees clockwise
int model
[in] Set the QR code version (1: original version, 2: enhanced version).

int dpi

[in] Magnification factor (range: 1-10).

char eccLevel

[in] Error correction level.
H: Ultra high reliability
Q: High reliability
M: standard level
L: high density level

int maskMode

[in] Mask mode (range: 0-7).

char text*

[in] QR code data.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.22 ZPL_UpcExtensions

This function is to print UPC extended barcodes.

int ZPL_UpcExtensions(

void* *handle,*

int *xPos,*

int *yPos,*

int *orientation,*

int *moduleWidth,*

int *codeHeight,*

char *line,*

char *lineAboveCode,*

char* *text*

);

Parameter：

void handle*
[in,out]The created target printer object.
int xPos
[in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
[in] Vertical starting position (range: 0-32000,unit:dot).
int orientation
[in] Print direction.
0 : normal
90 : Rotate 90 degrees clockwise
180: Rotate 180 degrees clockwise
270: Rotate 270 degrees clockwise

int moduleWidth

[in] Bar code width (range: 0-10,unit:dot).

int codeHeight

[in] Bar code height(range: 1-32000,unit:dot).

char line

[in] Comment line.

'N': not print

'Y': print

char lineAboveCode

[in] The comment line above the barcode.

'N': not print above the barcode

'Y': print above the barcode

char text*

[in] Text data.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.23 ZPL_UpcaBarcode

This function is to print UPC-A barcodes.

int ZPL_UpcaBarcode(

void* *handle,*

int *xPos,*

int *yPos,*

int *orientation,*

int *moduleWidth,*

int *codeHeight,*

char *line,*

char *lineAboveCode,*

char *digit,*

char* *text*

);

Parameter：

void handle*
[in,out] The created target printer object.
int xPos
[in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
[in] Vertical starting position (range: 0-32000,unit:dot).
int orientation
[in] Print direction.
0 : normal
90 : Rotate 90 degrees clockwise
180: Rotate 180 degrees clockwise
270: Rotate 270 degrees clockwise

int moduleWidth

[in] Bar code width (range: 0-10,unit:dot).

int codeHeight

[in] Bar code height(range: 1-32000,unit:dot).

char line

[in] Comment line.

'N': not print

'Y': print

char lineAboveCode

[in] The comment line above the barcode.

'N': not print above the barcode

'Y': print above the barcode

char digit

[in] Check Digit.

'N': do not print check digit

'Y': print check digit

char text*

[in] Text data.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.24 ZPL_SetChangeFontEncoding

This function is to select an international character set.

int ZPL_ SetChangeFontEncoding(

void* *handle,*

int *encodeType*

);

Parameter：

void handle*
[in,out] The created target printer object.
int encodeType
[in] Character set type (range: 0-31, 33-36).
0 : single byte encoding - US 1 character set
1 : Single-byte encoding - US 2 character set
2 : Single Byte Encoding - British Character Set
3 : Single Byte Encoding - Dutch Character Set
4 : Single-byte encoding - Danish/Norwegian character set
5 : Single-byte encoding - Swedish/Finnish character set
6 : Single byte encoding - German character set
7 : Single-byte encoding - French 1 character set
8 : Single-byte encoding - French 2 character set
9 : Single-byte encoding - Italian character set
10 : Single Byte Encoding - Spanish Character Set
11 : Single Byte Encoding - Miscellaneous Character Set
12 : Single-byte encoding - Japanese character set
13 : Code Page 850
14 : Double Byte Asian Code
15 : Shift-JIS
16 : EUC-JP and EUC-CN
17 : Not recommended - UCS-2 Big Endian
18-23 : Reserved
24 : Single Byte Asian Code
25 : Reserved
26 : Multibyte Asian Code

27 : Code Page 1252
28 : Unicode (UTF-8 encoding) - Unicode character set
29 : Unicode (UTF-16 Big-Endian encoding) - Unicode character set
30 : Unicode (UTF-16 Little-Endian encoding) - Unicode character set
31 : Code Page 1250
33 : Code page 1251
34 : Code page 1253
35 : Code page 1254
36 : Code page 1255
39 : Vietnam Character Set

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.25 ZPL_SetChangeCaret

This function is to change the format command prefix.

int ZPL_SetChangeCaret(

void* *handle,*

char *charactor*

);

Parameter：

void handle*
[in,out] The created target printer object.
char charactor
[in] Format command prefix.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.26 ZPL_SetChangeDelimiter

This function is to change the separator.

int ZPL_SetChangeDelimiter(

  void* *handle,*

  char *charactor*

);

Parameter：

void handle*
  [in,out] The created target printer object.
char charactor
  [in] Separator.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.27 ZPL_SetChangeTilde

This function is to change the control command prefix.

```
int ZPL_SetChangeTilde(

    void* handle,

    char charactor

);
```

Parameter：

void handle*
[in,out] The created target printer object.
char charactor
[in] Control command prefix.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.28 ZPL_GraphicBox

This function is to draw a graphic box.

int ZPL_GraphicBox(

void* *handle,*

int *xPos,*

int *yPos,*

int *width,*

int *height,*

int *thickness,*

int *rounding,*

);

Parameter：

void handle*
[in,out] The created target printer object.
int xPos
[in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
[in] Vertical starting position (range: 0-32000,unit:dot).
int width
[in] The width of the box (range: 1-32000, unit: dot).
int height
[in] The height of the box (range: 1-32000, unit: dot).
int thickness
[in] Boundary thickness (range: 1-32000, unit: dot).
int rounding
[in] Degree of rotation (range: 0-8).

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.29 ZPL_GraphicCircle

This function is to draw a graphic circle.

int ZPL_GraphicCircle(

void* *handle,*

int *xPos,*

int *yPos,*

int *diameter,*

int *thickness,*

);

Parameter：

void handle*
[in,out] The created target printer object.
int xPos
[in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
[in] Vertical starting position (range: 0-32000,unit:dot).
int diameter
[in] Round diameter(range:3-4095,unit:dot).
int thickness
[in] Boundary thickness(range:1-4095,unit:dot).

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.30 ZPL_GraphicDiagonalLine

This function is to draw diagonals.

```
int ZPL_GraphicDiagonalLine(

    void* handle,

    int xPos,

    int yPos,

    int orientation,

    int width,

    int height,

    int thickness

);
```

Parameter：

void handle*
  [in,out] The created target printer object.
int xPos
  [in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
  [in] Vertical starting position (range: 0-32000,unit:dot).
int orientation
  [in] The direction of the diagonal.
   0x52(R or /）： right slanted diagonal
   0x4c (L or \）： left slanted diagonal
int width
  [in] The width of the box (range: 1-32000, unit: dot).
int height
  [in] The height of the box (range: 1-32000, unit: dot).
int thickness
  [in] Boundary thickness (range: 1-32000, unit: dot).

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.31 ZPL_GraphicEllipse

This function is to draw a graphical ellipse.

```
int ZPL_GraphicEllipse(

    void* handle,

    int xPos,

    int yPos,

    int width,

    int height,

    int thickness

);
```

Parameter：

void handle*

[in,out] The created target printer object.

int xPos

[in] Horizontal starting position (range: 0-32000,unit:dot).

int yPos

[in] Vertical starting position (range: 0-32000,unit:dot).

int width

[in] Ellipse width (range: 3-4095, unit: dot).

int height

[in] Ellipse height (range: 3-4095, unit: dot).

int thickness

[in] Boundary thickness (range: 2-4095, unit: dot).

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.32 ZPL_PrintImage

This function is to print image.

int ZPL_PrintImage(

void* *handle,*

int *xPos,*

int *yPos,*

char* *imgName*

);

parameter：

void handle*
[in,out] The created target printer object.
int xPos
[in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
[in] Vertical starting position (range: 0-32000,unit:dot).
char imgName*
[in] The path to the image.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.33 ZPL_GraphicSymbol

This function is to generate registered trademarks, copyright symbols and other symbols.

int ZPL_GraphicSymbol(

void* *handle,*

int *xPos,*

int *yPos,*

int *orientation,*

int *width,*

int *height,*

char* *type*

);

Parameter：

void handle*
[in,out] The created target printer object.
int xPos
[in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
[in] Vertical starting position (range: 0-32000,unit:dot).
int orientation
[in] Print direction.
0 : normal
90 : Rotate 90 degrees clockwise
180: Rotate 180 degrees clockwise
270: Rotate 270 degrees clockwise
int width
[in] Symbol width.
int height
[in] Symbol height.

char type*

[in] Data string.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.34 ZPL_SetDiagnosticsMode

This function is to start the diagnostic mode.

int ZPL_SetDiagnosticsMode(

void* *handle,*

int *isEnable*

);

Parameter：

void handle*

[in,out] The created target printer object.

int isEnable

[in] Whether to enable the diagnostic mode.

1 : Turn on diagnostic mode

0 : Cancel diagnostic mode

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.35 ZPL_SetLabelHome

This function is to set the label home position.

int ZPL_SetLabelHome(

void* *handle*

int *xPos,*

int *yPos*

);

Parameter：

void handle*
[in,out] The created target printer object.
int xPos
[in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
[in] Vertical starting position (range: 0-32000,unit:dot).

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.36 ZPL_SetLabelLength

This function is to set the label length.

int ZPL_SetLabelLength(

void* *handle,*

int *length*

);

Parameter：

void handle*
[in,out] The created target printer object.
int length
[in] Label length (range: 1-32000, unit: dot).

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.37 ZPL_SetLabelShift

This function is to move the contents of the label to the left.

int ZPL_SetLabelShift(

void* *handle,*

int *shift*

);

Parameter：

void handle*
[in,out] The created target printer object.
int shift
[in] The value to move to the left (range: -9999–9999, unit: dot).

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.38 ZPL_SetLabelTop

This function is to move the position of the label up or down a short distance relative to the top edge of the label.

int ZPL_SetLabelTop(

void* *handle,*

int *top*

);

Parameter：

void handle*
[in,out] The created target printer object.
int top
[in] Maximum degree (range: -120–120, unit: dot).

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.39 ZPL_SetPrintMode

This function is to set the action the printer performs after printing a label or label group.

int ZPL_SetPrintMode(

void* *handle,*

char *mode,*

char *prePeelSelect*

);

Parameter：

void handle*

[in,out] The created target printer object.

char mode

[in] Operating mode.

'T': tear open

'P': stripping (depending on the printer model)

'R': rewind (depending on the printer model)

'A': applicator (depending on printer model)

'C': cutter (depending on printer model)

'D': cutter delay

'F': RFID

'L': reserved

'U': reserved

'K': Kiosk

char prePeelSelect

[in] select.

'N': not execute

'Y': execute

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.40 ZPL_SetMediaType

This function is to select the type of media used in the printer.

int ZPL_SetMediaType(

void* *handle,*

char *type*

);

Parameter：

void handle*
[in,out] The created target printer object.
char type
[in] Media type.
‘ T’ : thermal transfer media
‘D’ : direct thermal media

Return Value：

Error code	**Value**	**Description**
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.41 ZPL_SetPrintingMirrorImage

This function is to print the entire printable area of the label as a mirror image.

int ZPL_SetPrintingMirrorImage(

void* *handle,*

char *enable*

);

Parameter：

void handle*

[in,out] The created target printer object.

char enable

[in] Whether to open.

‘N’: not open

‘Y’: open

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.42 ZPL_SetPrintOrientation

This function is to flip the label format 180 degrees.

```
int ZPL_SetPrintOrientation(

    void* handle,

    int orientation

);
```

Parameter：

void handle*
    [in,out] The created target printer object.
int orientation
    [in] Whether to flip.
      0: don’t flip
      180: perform a flip

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.43 ZPL_SetPrintRate

This function is to set the print speed.

int ZPL_SetPrintRate(

void* *handle,*

int *printSpeed***,**

int *slewSpeed***,**

int *backfeedSpeed*

);

Parameter：

void handle*

[in,out] The created target printer object.

int printSpeed

[in] Print speed. （unit: inches/sec）

int slewSpeed

[in] Swing speed. （unit: inches/sec）

int backfeedSpeed

[in] Feedback speed. （unit: inches/sec）

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.44 ZPL_SetPrintWidth

This function is to set print width.

int ZPL_SetPrintWidth(

void* *handle,*

int *width*

);

Parameter：

void handle*
[in,out] The created target printer object.
int width
[in] Set the print width (range: 2-944, unit: dot).

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.45 ZPL_SetSerialCommunications

This function is to change the serial communication parameters.

```
int ZPL_SetSerialCommunications(

    void* handle,

    int baudRate,

    int wordLength,

    char parity,

    int stopBits,

    char protocolModo,

);
```

Parameter：

void handle*

[in,out] The created target printer object.

int baudRate

[in] Bandwidth frequency. The scope is as follows:

110	300	600	1200	2400
4800	9600	14400	19200	28800
38400	57600	115200		

int wordLength

[in] Word length: 7-8, unit: data bits.

char parity

[in] as follows:

‘N’: means: none.

‘E’: means: even.

‘O’: means: odd.

int stopBits

[in] Range: 1-2.

char protocolModo

[in] as follows:

‘X’: indicates: XON/XOFF.

‘D’: indicates: DTR/DSR.

‘R’: indicates: RTS.
‘M’: indicates: DTR/DSR XON/XOFF r.

remark：1、XON/XOFF（transmitter on/transmitter off）
2、DTR（Data Terminal Ready）
3、DSR（Data Set Ready）
4、RTS（Request To Send）

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.46 ZPL_SetPrintDarkness

This function is to set print darkness.

int ZPL_SetPrintDarkness (

void* *handle,*

int *darkness*

);

Parameter：

void handle*

[in,out] The created target printer object.

int darkness

[in] Print darkness(Range: 0-30, unit: dot).

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.47 ZPL_SetTearOffAdjustPosition

This function is to set the position where the label is torn away.

int ZPL_SetTearOffAdjustPosition (

void* *handle,*

int *position*

);

Parameter：

void handle*
[in,out] The created target printer object.
int position
[in] Peel off position (range: -120~+120).

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.48 ZPL_PrintConfigurationLabel

This function is to generate a printer configuration label.

```
int ZPL_PrintConfigurationLabel(
    void* handle
);
```

Parameter：

void handle*

[in,out] The created target printer object.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.49 ZPL_GetPrinterIpAddress

This function is to get the printer IP address.

int ZPL_GetPrinterIpAddress(

void* *handle*

char* *ipAddress*

);

Parameter：

void handle*
[in,out] The created target printer object.
char ipAddress*
[in] Printer's IP address.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.50 ZPL_GetPrinterStatus

This function is to get the status of the printer.

int ZPL_GetPrinterStatus (

void* *handle,*

int* *status*

);

Parameter：

void handle*

[in,out] The created target printer object.

int status*

[in] The status of the printer.

E.g: 00 00 12 34 Convert to binary 0000 0000 0000 0000 0001 0010 0011 0100(bit32<-bit0)

The corresponding bit is 1 as follows：

Status	Value
Normal	0
Standby	1
Label End	2
TOF Error	3
Label End	4
Ribbon End	5
Label Seizing	6
Label Jumpping	7
Label Calibrating	8
Cuter Error	9
Form Error	10
Memory Write Error	11
illegal Command	12
Lid Not In Place	13
Ribbon Almost End	14

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.51 ZPL_GetLabelLength

This function is to get the length of the label.(not available on HT130/300)

int ZPL_GetLabelLength (

void* *handle,*

char* *length*

);

Parameter：

void handle*
[in,out] The created target printer object.
char length*
[in] The length of the label.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.52 ZPL_GetLabelWidth

This function is to get the width of the label. (not available on HT130/300)

int ZPL_GetLabelWidth(

void* *handle,*

char* *width*

);

Parameter：

void handle*

[in,out] The created target printer object.

char width*

[in] The width of the label.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.53 ZPL_GetPrinterSeriesNumber

This function is to get the printer serial number.

int ZPL_GetPrinterSeriesNumber(

void* *handle,*

char* *sn*

);

Parameter：

void handle*
[in,out] The created target printer object.
char sn*
[in] Printer serial number.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.54 ZPL_GetPrinterMacAddress

This function is to get the printer's MAC address.

int ZPL_GetPrinterMacAddress(

void* *handle,*

char* *macAddresss*

);

Parameter：

void handle*
[in,out] The created target printer object.
char macAddress*
[in] The MAC address of the printer.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.55 ZPL_GetPrinterName

This function is to get the printer's name.

int ZPL_GetPrinterName(

void* *handle,*

char* *name*

);

Parameter：

void handle*
[in,out] The created target printer object.
char name*
[in] The name of the printer.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.56 ZPL_GetPrinterFirmwareVersion

This function is to get the firmware version number of the printer.

int ZPL_GetPrinterFirmwareVersion(

void* *handle,*

char* *version*

);

Parameter：

void handle*
[in,out] The created target printer object.
char version*
[in] The firmware version number of the printer.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.57 ZPL_GetPrinterDpi

This function is to get the resolution of the printer.

int ZPL_GetPrinterDpi(

void* *handle,*

char* *dpi*

);

Parameter：

void handle*
[in,out] The created target printer object.
char dpi*
[in] The resolution of the printer.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.58 ZPL_LearnLabel

This feature is used for automatic label learning.

int ZPL_LearnLabel(

void* *handle,*

);

Parameter：

void handle*
[in,out] The created target printer object.
(The interface needs to be called before ZPL_StartFormat)

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.59 ZPL_SetReprintAfterError

This function is to reprint the labels that failed to print due to an error (error conditions include Ribbon Out, Media Out, Head Open).

int ZPL_SetReprintAfterError(

void* *handle,*

char* p*Enable*

);

Parameter：

void handle*
[in,out] The created target printer object.
Char pEnable*
[in] Whether to enable reprint.
"on": turn on reprint switch
"off": close reprint switch
（The interface needs to be called before ZPL_StartFormat）

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.60 ZPL_SetNetworkSetting

This function is to change the network settings on the printer.

int ZPL_SetNetworkSetting(

void* *handle,*

char* *network*

);

Parameter：

void handle*

[in,out] The created target printer object.

char network*

[in] **Format** “a,b,c,d,e,f,g,h,i,j”

a position (the device that is being modified)：

1 express： external wired；

2 express： internal wired；

3 express： wireless；

b position (IP resolution)：

A express： All；

B express： BOOTP；

C express： DHCP and BOOTP；

D express： DHCP；

G express： Gleaning only (Not recommended when the Wireless Print Server
or Wireless Plus Print Server is installed.)；

R express： RARP；

P express： Permanent；

c position (IP address) : format： xxx.xxx.xxx.xxx

d position (subnet mask) : format： xxx.xxx.xxx.xxx

e position (default gateway) : format： xxx.xxx.xxx.xxx

f position (WINS server address) : format： xxx.xxx.xxx.xxx

g position (connection timeout checking) : Whether timeout detection： Y=yes, N=no

h position (timeout value) : range： 0-9999。

i position (ARP broadcast interval) :range： 0-30。

j position (ARP broadcast interval) :range： 1-65535。

Parameter setting example：“1， A， 192.168.1.1， 255.255.255.0， 192.168.1.1， 192.168.1.1， Y， 300， 0， 9100”

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.61 ZPL_SetMediaTracking

This function is to specify the media type being used and the black mark offset.

int ZPL_SetMediaTracking(

void* *handle,*

char *mediaType,*

int *offset*

);

Parameter:

void handle*

[in,out] The created target printer object.

char mediaType

[in] Media Type.

'N': continuous media(continuous paper)

'Y': non-continuous media web sensing(label paper)

'W': non-continuous media web sensing(label paper)

'M': non-continuous media mark sensing(black mark paper)

'A': auto-detects the type of media during calibration

'V': continuous media, variable length(Same as continuum, but if the portion of the printed label exceeds the defined label length, the label size will automatically expand to include them)

int offset

[in] Black mark offset（unused, set to 0）.

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.62 ZPL_SetUserFontName

This function is to Set user-defined fonts,use for print text

int ZPL_ SetPrintDefaultGateway (

void* *handle*

const TCHAR* *text*

);

参数：

void handle*

[in,out] The created target printer object.

const TCHAR text*

[in] Font name

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.63 ZPL_SetVietMode

This function is to Set Vietnamese mode

int ZPL_ SetVietMode(

void* *handle*

int *vietmode*

);

参数：

void handle*

[in,out] The created target printer object.

int vietmode

[in] mode

1：ASCII

2：UTF-8

（The interface needs to be called before ZPL_StartFormat）

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.64 ZPL_SetVietFontEncoding

This function is to set Vietnamese character

int ZPL_SetVietFontEncoding(

void* *handle*

);

参数：

void handle*

[in,out]   The created target printer object.

（The interface needs to be called before ZPL_StartFormat）

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout

4.65 ZPL_Text_Block

This function is to print text block.

int ZPL_Text_Block(

void* *handle,*

int *xPos,*

int *yPos,*

int *fontNum,*

int *orientation,*

int *fontWidth,*

int *fontHeight,*

int *textBlockWidth,*

int *textBlockHeight,*

char* *text*

);

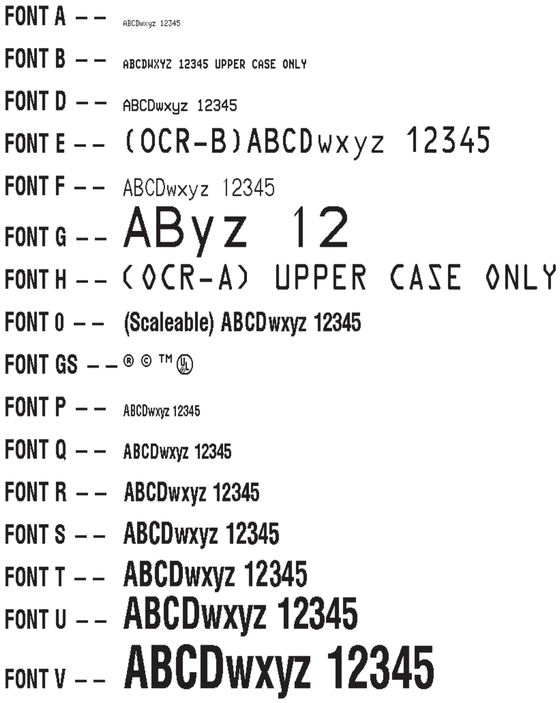
Parameter：

void handle*
[in,out] The created target printer object.
int xPos
[in] Horizontal starting position (range: 0-32000,unit:dot).
int yPos
[in] Vertical starting position (range: 0-32000,unit:dot).

int fontNum

[in] Font.

0 : FONT 0 - Scalable font
1 : FONT A - Bitmap font
2 : FONT B - Bitmap font
3 : FONT D - Bitmap font
4 : FONT E - Bitmap font
5 : FONT F - Bitmap font
6 : FONT G - Bitmap font
7 : FONT H - Bitmap font
8 : FONT GS - Bitmap font
9 : FONT P - Bitmap font
10 : FONT Q - Bitmap font
11 : FONT R - Bitmap font
12 : FONT S - Bitmap font
13 : FONT T - Bitmap font
14 : FONT U - Bitmap font
15 : FONT V - Bitmap font



FONT A -- ABCDwxyz 12345
FONT B -- ABCDWXYZ 12345 UPPER CASE ONLY
FONT D -- ABCDwxyz 12345
FONT E -- (OCR-B)ABCDwxyz 12345
FONT F -- ABCDwxyz 12345
FONT G -- AByz 12
FONT H -- (OCR-A) UPPER CASE ONLY
FONT 0 -- (Scaleable) ABCDwxyz 12345
FONT GS --® © ™
FONT P -- ABCDwxyz 12345
FONT Q -- ABCDwxyz 12345
FONT R -- ABCDwxyz 12345
FONT S -- ABCDwxyz 12345
FONT T -- ABCDwxyz 12345
FONT U -- ABCDwxyz 12345
FONT V -- ABCDwxyz 12345

int orientation

[in] Print direction.

0 : normal
90 : Rotate 90 degrees clockwise
180: Rotate 180 degrees clockwise
270: Rotate 270 degrees clockwise

int fontWidth

[in] Font width.

int fontHeight

[in] Font height.

int textBlockWidth

[in] Text block width

int textBlockHeight

[in] Text block height

char text*

[in]Text data.

Note: The data does not support Chinese at this time

Return Value：

Error code	Value	Description
E_SUCCESS	0	Normal
E_INVALID_PARAMETER	-1	Invalid parameter
E_NOT_ENOUGH_BUFFER	-2	No enough memory
E_INVALID_MODEL_TYPE	-3	This model does not support this feature.
E_BAD_HANDLE	-6	Invalid handle
E_IO_PORT_NOT_OPEN	-309	Communication port not open
E_IO_WRITE_FAILED	-321	Write failed
E_IO_WRITE_TIMEOUT	-322	Write timeout