Windows ADK Manual

LK-Txx and LK-Txxx and TL, TE

Receipt Printer

Rev. 1.41

1. Method

This is function for DLL(Module)

1.1. long OpenPort(
LPCTSTR szPortName,
long BaudRate
);

This function will be applied to open Port.

[Parameters]

szPortName :

[in] transmits the Name of the Port

BaudRate :

[in] transmits the information of the Port.

please refer to the sample programs.

[Return Values]

LK_SUCCESS : returns after the function success

LK_CREATE_ERROR : failure to create communication target

LK_UNKNOWN_PRINTER : returns when unknown printer has been connected.

1.2. long ClosePort

();

This function will be applied to close the Port.

[Parameters]

None.

[Return Values]

LK_SUCCESS : returns after function success

LK_NOT_OPENED : the communication port is closed

1.3. long PrintBitmap(

LPCTSTR BitmapName,
long Alignment,
long Options,
long Brightness,
long ImageMode
);

The function is used to print with bitmap file.

[Parameters]

BitmapName:

[in] This value is a bitmap filename.

It sets the path of the bitmap file for printing.

Alignment:

[in] This value is alignment. It sets image alignment.

Variable	Description
LK_ALIGNMENT_LEFT	Left alignment
LK_ALIGNMENT_CENTER	Center alignment
LK_ALIGNMENT_RIGHT	Right alignment

Options:

[in] This value is image option. It sets the value for option of image.

Variable	Description
LK_BITMAP_NORMAL	Original : printing of Image.
LK_BITMAP_WIDTH_DOUBLE	width magnification two times.
LK_BITMAP_HEIGHT_DOUBLE	height magnification two times.

LK_BITMAP_WIDTH_HEIGHT_DOUBLE	width and height magnification two times.

Brightness:

[in] This value is brightness of image.

It sets the value for brightness of printing image

[Range] : 0 ~ 10

ImageMode :

[in] This value is HalfTone Method.

It sets the value for HalfTone of printing image

Variable	Description
LK_BITMAP_NO_DITHER	Process image as B/W Level
LK_BITMAP_ERROR_DIFFUSION	Process image as Error Diffusion Level
LK_BITMAP_ORDERED_DITHER	Process image as Ordered Dither Level

[Return Values]

LK_SUCCESS : returns after function success.

1.4. long PrintText(
LPCTSTR Data,
long Alignment,
long Options,
long TextSize
);

The function is used to print text font.

[Parameters]

Data:

[in] This value is alignment. It sets the value for text printing

Alignment:

[in] This value is alignment. It sets text alignment.

Variable	Description
LK_ALIGNMENT_LEFT	Left alignment
LK_ALIGNMENT_CENTER	Center alignment
LK_ALIGNMENT_RIGHT	Right alignment

Options:

[in] This value is text options. It sets the value for Options of text printing.

Variable	Description
LK_FNT_DEFAULT	FontA, Set up as a standard
LK_FNT_FONTB	Set up as FontB
LK_FNT_BOLD	Set up as Bold attribute
LK_FNT_UNDERLINE	Set up as Underline attribute

TextSize:

[in] This value is size of text. It sets the value for the size of text

Variable (Set up width ratio)	Description
LK_TXT_1WIDTH	Set up width ratio as x1
LK_TXT_2WIDTH	Set up width ratio as x2
LK_TXT_3WIDTH	Set up width ratio as x3
LK_TXT_4WIDTH	Set up width ratio as x4
LK_TXT_5WIDTH	Set up width ratio as x5
LK_TXT_6WIDTH	Set up width ratio as x6
LK_TXT_7WIDTH	Set up width ratio as x7
LK_TXT_8WIDTH	Set up width ratio as x8
Variable (Set up height ratio)	Description
LK_TXT_1HEIGHT	Set up height ratio as x1
LK_TXT_2HEIGHT	Set up height ratio as x2
LK_TXT_3HEIGHT	Set up height ratio as x3
LK_TXT_4HEIGHT	Set up height ratio as x4
LK_TXT_5HEIGHT	Set up height ratio as x5
LK_TXT_6HEIGHT	Set up height ratio as x6
LK_TXT_7HEIGHT	Set up height ratio as x7
LK_TXT_8HEIGHT	Set up height ratio as x8

[Return Values]

LK_SUCCESS : returns after function success

1.5. long PrintString(
LPCTSTR Data
);

The function is used to print text without any transformation.

[Parameters]

Data:

[in] This value is NULL-terminated Unicode string.

It sets text the string for text printing.

[Return Values]

LK_SUCCESS : returns after function success.

1.6. long PrintNormal(
LPCTSTR Data
);

This function is to use the function which is provided by OLE POS Specification.
For command list, please refer to the Page-26 ~ Page-27.

[Parameters]

Data:

[in] This value is text data. It sets the data for text printing.

[Return Values]

LK_SUCCESS : returns after function success.

1.7. long PrintBarCode(
LPCTSTR Data,
long Symbology,
long Height,
long Width,
long Alignment,
long TextPosition
);

This is function to print barcode.

[Parameters]

Data:

[in] This value is barcode data. It sets the data for the barcode data

Symbology:

[in] This value is type of barcode. It sets the value for the type of barcode

Variable	Description
LK_BCS_UPCA	Print UPC A BarCode
LK_BCS_UPCE	Print UPC E BarCode
LK_BCS_EAN8	Print EAN-8 BarCode
LK_BCS_EAN13	Print EAN-13 BarCode
LK_BCS_JAN8	Print JAN-8 BarCode
LK_BCS_JAN13	Print JAN-13 BarCode
LK_BCS_ITF	Print Interleaved 2 of 5
LK_BCS_Codabar	Print Codabar BarCode
LK_BCS_Code39	Print Code 3 of 9 BarCode
LK_BCS_Code93	Print Code 93 BarCode

LK_BCS_Code128	Print Code 128 BarCode
LK_BCS_3OF5	Print 3 out of 5(KorMail) BarCode

Height:

[in] This value is barcode height.

It sets the value for barcode height (Default : Dot)

Width:

[in] This value is barcode width.

It sets the value for barcode width (Default : Dot)

Alignment:

[in] This value is barcode alignment. It sets the value for barcode alignment

Variable	Description
LK_ALIGNMENT_LEFT	Left alignment
LK_ALIGNMENT_CENTER	Center alignment
LK_ALIGNMENT_RIGHT	Right alignment

TextPosition :

[in] This value is printing position of HRI.

It sets the printing position of Human Readable font for barcode HRI.

Variable	Description
LK_HRI_TEXT_NONE	Do not print barcode data
LK_HRI_TEXT_ABOVE	Print barcode data above the barcode
LK_HRI_TEXT_BELOW	Print barcode data below the barcode

[Return Values]

LK_SUCCESS : returns after function success

1.8. long PrinterSts()

The function is used to read the printer status value.

[Parameters]

None.

[Return Values]

Variable	Description
LK_STS_NORMAL	Success
LK_STS_COVEROPEN	Cover Open ERROR
LK_STS_PAPEREMPTY	Paper Empty ERROR
LK_STS_POWEROFF	Power OFF ERROR
LK_STS_PAPERNEAREMPTY	Paper Near Empty Warning

1.9. long CutPaper()

Cut Paper Method.

[Parameters]

None.

[Return Values]

LK_SUCCESS : returns after function success

1.10. long OpenDrawer(

long DrawerPinNum,
long PulseOnTime,
long PulseOffTime,
)

Cash Drawer Open Method.

[Parameters]

DrawerPinNum:

[in] This value is Drawer Pin Connector number.

It sets the value for Drawer Pin Connector.

Variable	Description
LK_CD_PIN_TWO	Drawer kick-out connector pin 2.
LK_CD_PIN_FIVE	Drawer kick-out connector pin 5.

PulseOnTime:

[in] Pulse High Time. (Default : milliseconds)

PulseOffTime:

[in] Pulse Low Time.(Default : milliseconds)

[Return Values]

LK_SUCCESS : returns after function success

1.11. long DrawerSts()

the function is used to read the status value for cash Drawer

[Parameters]

None

[Return Values]

LK_SUCCESS : returns after function success (Cash Drawer Close Status)

LK_CASHDRAWER_OPEN : Cash Drawer Open Status.

1.12. long PrintData(
unsigned char * Data,
int Size;
);

The function is used to print control command include NULL-character.

[Parameters]

Data:

[in] This value is text data with NULL character.

It sets the control command for text printing.

Size:

[in] This value is size of data.

It sets the size of data to print control command.

[Return Values]

LK_SUCCESS : returns after function success.

1.13. long PrintText2Image (
LPCTSTR FontName,
long FontStyle,
long FontDotSize,
LPCTSTR TextData,
long ReversePrint
)

This function is used to supporting True-Type font printing.

[Parameters]

FontName:

[in] It sets the True-Type Font name.

FontStyle:

[in] It sets the True-Type Font characteristics.

Variable	Description
LK_TTF_THIN	Weight of True-Type Font is THIN.
LK_TTF_NORMAL	Weight of True-Type Font is NORMAL.
LK_TTF_BOLD	Weight of True-Type Font is BOLD.
LK_TTF_ITALIC	Style of True-Type Font is italic.
LK_TTF_UNDERLINE	Style of True-Type Font is underline.

FontDotSize:

[in] It sets the True-Type Font size.(Dot Size).

TextData:

[in] Pointer to a null-terminated Unicode string. It sets Unicode text to print.

ReversePrint:

[in] It sets the value of reverse printing.

Variable	Description
LK_TTF_REVERSE_NO	Not Reverse Printing.
LK_TTF_REVERSE_YES	Reverse Printing.

[Return Values]

LK_SUCCESS : returns after function success..

1.14. long PrintText2ImageAlignment (LPCTSTR FontName, long FontStyle, long FontDotSize, LPCTSTR TextData, long ReversePrint, long Alignment)

This function is used to supporting True-Type font printing with alignment.

[Parameters]

FontName:

[in] It sets the True-Type Font name.

FontStyle:

[in] It sets the True-Type Font characteristics.

Variable	Description
LK_TTF_THIN	Weight of True-Type Font is THIN.
LK_TTF_NORMAL	Weight of True-Type Font is NORMAL.
LK_TTF_BOLD	Weight of True-Type Font is BOLD.
LK_TTF_ITALIC	Style of True-Type Font is italic.
LK_TTF_UNDERLINE	Style of True-Type Font is underline.

FontDotSize:

[in] It sets the True-Type Font size.(Dot Size).

TextData:

[in] Pointer to a null-terminated Unicode string. It sets Unicode text to print.

ReversePrint:

[in] It sets the value of reverse printing.

Variable	Description
LK_TTF_REVERSE_NO	Not Reverse Printing.
LK_TTF_REVERSE_YES	Reverse Printing.

Alignment:

[in] This value is TTF printing alignment.

It sets the value for TTF printing alignment

Variable	Description
LK_ALIGNMENT_LEFT	Left alignment
LK_ALIGNMENT_CENTER	Center alignment
LK_ALIGNMENT_RIGHT	Right alignment

[Return Values]

LK_SUCCESS : returns after function success..

1.15. long OutputCompletePrinting (
long TimeDelay,
)

The function is used to check printing result.

[Parameters]

TimeDelay:

[in] Wait time to receive the printing result. (Default : milliseconds)

[Return Values]

Variable	Description
LK_STS_NORMAL	Success
LK_STS_COVEROPEN	Cover Open ERROR
LK_STS_PAPEREMPTY	Paper Empty ERROR
LK_STS_POWEROFF	Power OFF ERROR

1.16. long PrintQRCode (
unsigned char * Data,
long Size,
long ModuleSize,
long ECLevel,
long Alignment
)

The function is used to print QRCode using command.

[Parameters]

Data:

[in] This value is the data for QRCode with NULL character.

It sets the data for QRCode printing.

Size:

[in] This value is size of data.

It sets the size of data to print QRCode.

ModuleSize:

[in] This value is module size.

It sets the size of module to print QRCode.

[Range] : 1 ~ 20

ECLevel:

[in] This value is Error Correction Level.

It sets the Error Correction Level to print QRCode.

[Range] : 0 ~ 3

[Default] : 0

Variable	Description
LK_QRCODE_EC_LEVEL_L	Error Correction Level L(7%)
LK_QRCODE_EC_LEVEL_M	Error Correction Level M(15%)
LK_QRCODE_EC_LEVEL_Q	Error Correction Level Q(25%)
LK_QRCODE_EC_LEVEL_H	Error Correction Level H(30%)

Alignment:

[in] This value is QRCode alignment.

It sets the value for QRCode alignment

Variable	Description
LK_ALIGNMENT_LEFT	Left alignment
LK_ALIGNMENT_CENTER	Center alignment
LK_ALIGNMENT_RIGHT	Right alignment

[Return Values]

LK_SUCCESS : returns after function success..

1.17. long MakeQRCodeBitmap (
unsigned char * Data,
long Size,
long ModuleSize,

long ECLevel,
long Version,
long MaskPattern,
LPCTSTR BitmapName
)

The function is used to save QRCode using QR Generator.

[Parameters]

Data:

[in] This value is the data for QRCode with NULL character.

It sets the data for QRCode printing.

Size:

[in] This value is size of data.

It sets the size of data to print QRCode.

ModuleSize:

[in] This value is module size.

It sets the size of module to print QRCode.

[Range] : 1 ~ 20

ECLevel:

[in] This value is Error Correction Level.

It sets the Error Correction Level to print QRCode.

[Range] : 0 ~ 3

[Default] : 0

Variable	Description
LK_QRCODE_EC_LEVEL_L	Error Correction Level L(7%)
LK_QRCODE_EC_LEVEL_M	Error Correction Level M(15%)
LK_QRCODE_EC_LEVEL_Q	Error Correction Level Q(25%)
LK_QRCODE_EC_LEVEL_H	Error Correction Level H(30%)

Version:

[in] This value is version of symbol.

It sets the value of version to print QRCode.

[Range] : 1 ~ 40

Variable	Description
LK_QRCODE_VERSION_00	Auto
LK_QRCODE_VERSION_01	Symbol Version 1
LK_QRCODE_VERSION_02	Symbol Version 2
LK_QRCODE_VERSION_03	Symbol Version 3
…	
LK_QRCODE_VERSION_39	Symbol Version 39

LK_QRCODE_VERSION_40	Symbol Version 40

MaskPattern:

[in] This value is mask pattern.

It sets the value of mask pattern to print QRCode.

Variable	Description
LK_QRCODE_MASK_AUTO	Auto
LK_QRCODE_MASK_0	Mask Pattern 0
LK_QRCODE_MASK_1	Mask Pattern 1
LK_QRCODE_MASK_2	Mask Pattern 2
…	
LK_QRCODE_MASK_6	Mask Pattern 6
LK_QRCODE_MASK_7	Mask Pattern 7

Alignment:

[in] This value is QRCode alignment.

It sets the value for QRCode alignment

Variable	Description
LK_ALIGNMENT_LEFT	Left alignment
LK_ALIGNMENT_CENTER	Center alignment
LK_ALIGNMENT_RIGHT	Right alignment

BitmapName:

[in] This value is bitmap filename to save.

It sets the path of bitmap filename to save QRCode image.

[Return Values]

LK_SUCCESS : returns after function success..

1.18. long PrintQRCodeGenerator (

```
        unsigned char * Data,
        long Size,
        long ModuleSize,
        long ECLevel,
        long Version,
        long MaskPattern,
)
```

The function is used to print QRCode using QR Generator.

[Parameters]

Data:

[in] This value is the data for QRCode with NULL character.

It sets the data for QRCode printing.

Size:

[in] This value is size of data.

It sets the size of data to print QRCode.

ModuleSize:

[in] This value is module size.

It sets the size of module to print QRCode.

[Range] : 1 ~ 20

ECLevel:

[in] This value is Error Correction Level.

It sets the Error Correction Level to print QRCode.

[Range] : 0 ~ 3

[Default] : 0

Variable	Description
LK_QRCODE_EC_LEVEL_L	Error Correction Level L(7%)
LK_QRCODE_EC_LEVEL_M	Error Correction Level M(15%)
LK_QRCODE_EC_LEVEL_Q	Error Correction Level Q(25%)
LK_QRCODE_EC_LEVEL_H	Error Correction Level H(30%)

Version:

[in] This value is version of symbol.

It sets the value of version to print QRCode.

[Range] : 1 ~ 40

Variable	Description
LK_QRCODE_VERSION_00	Auto
LK_QRCODE_VERSION_01	Symbol Version 1
LK_QRCODE_VERSION_02	Symbol Version 2
LK_QRCODE_VERSION_03	Symbol Version 3
…	
LK_QRCODE_VERSION_39	Symbol Version 39
LK_QRCODE_VERSION_40	Symbol Version 40

MaskPattern:

[in] This value is mask pattern.

It sets the value of mask pattern to print QRCode.

Variable	Description
LK_QRCODE_MASK_AUTO	Auto
LK_QRCODE_MASK_0	Mask Pattern 0
LK_QRCODE_MASK_1	Mask Pattern 1
LK_QRCODE_MASK_2	Mask Pattern 2
…	

LK_QRCODE_MASK_6	Mask Pattern 6
LK_QRCODE_MASK_7	Mask Pattern 7

[Return Values]

LK_SUCCESS : returns after function success..

1.19. long PrintQRCodeFromFile (LPCTSTR File4QR, long ModuleSize, long ECLevel, long Version, long MaskPattern, long Alignment)

The function is used to print QRCode from file using QR Generator.

[Parameters]

File4QR:

[in] This value is the data for QRCode with NULL character.

It sets the data for QRCode printing.

ModuleSize:

[in] This value is module size.

It sets the size of module to print QRCode.

[Range] : 1 ~ 20

ECLevel:

[in] This value is Error Correction Level.

It sets the Error Correction Level to print QRCode.

[Range] : 0 ~ 3

[Default] : 0

Variable	Description
LK_QRCODE_EC_LEVEL_L	Error Correction Level L(7%)
LK_QRCODE_EC_LEVEL_M	Error Correction Level M(15%)
LK_QRCODE_EC_LEVEL_Q	Error Correction Level Q(25%)
LK_QRCODE_EC_LEVEL_H	Error Correction Level H(30%)

Version:

[in] This value is version of symbol.

It sets the value of version to print QRCode.

[Range] : 1 ~ 40

Variable	Description
LK_QRCODE_VERSION_00	Auto
LK_QRCODE_VERSION_01	Symbol Version 1
LK_QRCODE_VERSION_02	Symbol Version 2
LK_QRCODE_VERSION_03	Symbol Version 3
…	
LK_QRCODE_VERSION_39	Symbol Version 39
LK_QRCODE_VERSION_40	Symbol Version 40

MaskPattern:

[in] This value is mask pattern.

It sets the value of mask pattern to print QRCode.

Variable	Description
LK_QRCODE_MASK_AUTO	Auto
LK_QRCODE_MASK_0	Mask Pattern 0
LK_QRCODE_MASK_1	Mask Pattern 1
LK_QRCODE_MASK_2	Mask Pattern 2
…	
LK_QRCODE_MASK_6	Mask Pattern 6
LK_QRCODE_MASK_7	Mask Pattern 7

Alignment:

[in] transmits the value for QRCode alignment

Variable	Description
LK_ALIGNMENT_LEFT	Left alignment
LK_ALIGNMENT_CENTER	Center alignment
LK_ALIGNMENT_RIGHT	Right alignment

[Return Values]

LK_SUCCESS : returns after function success..

1.20. long PrintPDF417 (

```
        LPCTSTR PdfData,
        long DataLength,
        long NumberOfColumns,
        long CellWidth,
        long Alignment
)
```

The function is used to print PDF417 using command.

[Parameters]

PdfData:

[in] This value is the data for PDF417 with NULL character.

It sets the data for PDF417 printing.

DataLength:

[in] This value is size of data.

It sets the size of data to print PDF417.

NumberOfColumns:

[in] This value is Column counter.

It sets the size of Column to print PDF417.

[Range] : 3 ~ 13

CellWidth:

[in] This value is size of CellWidth.

It sets the size of Cell to print PDF417.

[Range] : 2 ~ 5

Cell width = 2	Number of columns (3 ~ 13)
Cell width = 3	Number of columns (3 ~ 8)
Cell width = 4	Number of columns (3 ~ 5)
Cell width = 5	Number of columns (3)

Alignment:

[in] This value is PDF417alignment.

It sets the value for PDF417alignment

Variable	Description
LK_ALIGNMENT_LEFT	Left alignment
LK_ALIGNMENT_CENTER	Center alignment
LK_ALIGNMENT_RIGHT	Right alignment

[Return Values]

LK_SUCCESS : returns after function success..

1.21. long SetMasterUnit (long UnitMeasure)

The function is used to setup the unit measure.

[Parameters]

UnitMeasurea:

[in] This value is the data for Unit of length.

Variable	Description
0	Dot
1	Millimeter

2	Centimeter
3	Inch

[Return Values]

LK_SUCCESS : returns after function success..

1.22. long PrintingWidth (long pwidth)

The function is used to setup the width of printing.

[Parameters]

pwidth:

[in] This value is the width of printing.

[Return Values]

LK_SUCCESS : returns after function success..

1.23. long SetLabelSize (long widthsize, long heightsize)

The function is used to setup the printing area.

[Parameters]

widthsize:

[in] This value is the width size of printing area.

heightsize:

[in] This value is the height size of printing area.

[Return Values]

LK_SUCCESS : returns after function success..

1.24. long PrintLabel ()

The function is used to print the buffer in printing aread.

[Parameters]

None

[Return Values]

LK_SUCCESS : returns after function success..

1.25. long PrintTTFXY (

long BaseUnitX,
long BaseUnitY,
LPCTSTR FontName,
long FontStyle,
long FontDotSize,
LPCTSTR TextData,
long ReversePrint
)

This function is used to supporting True-Type font printing.

[Parameters]

BaseUnitX:

[in] It sets the x-coordinates for printing the True-Type Font.

BaseUnitY:

[in] It sets the y-coordinates for printing the True-Type Font.

FontName:

[in] It sets the True-Type Font name.

FontStyle:

[in] It sets the True-Type Font characteristics.

Variable	Description
LK_TTF_THIN	Weight of True-Type Font is THIN.
LK_TTF_NORMAL	Weight of True-Type Font is NORMAL.
LK_TTF_BOLD	Weight of True-Type Font is BOLD.
LK_TTF_ITALIC	Style of True-Type Font is italic.
LK_TTF_UNDERLINE	Style of True-Type Font is underline.

FontDotSize:

[in] It sets the True-Type Font size.(Dot Size).

TextData:

[in] Pointer to a null-terminated Unicode string. It sets Unicode text to print.

ReversePrint:

[in] It sets the value of reverse printing.

Variable	Description
LK_TTF_REVERSE_NO	Not Reverse Printing.
LK_TTF_REVERSE_YES	Reverse Printing.

[Return Values]

LK_SUCCESS : returns after function success..

1.26. long PrintTTFAlign (

long Alignment,
long BaseUnitY,
LPCTSTR FontName,
long FontStyle,
long FontDotSize,
LPCTSTR TextData,
long ReversePrint
)

This function is used to supporting True-Type font printing according to alignment.

[Parameters]

Alignment:

[in] It sets justification for printing the True-Type Font.

BaseUnitY:

[in] It sets the y-coordinates for printing the True-Type Font.

FontName:

[in] It sets the True-Type Font name.

FontStyle:

[in] It sets the True-Type Font characteristics.

Variable	Description
LK_TTF_THIN	Weight of True-Type Font is THIN.
LK_TTF_NORMAL	Weight of True-Type Font is NORMAL.
LK_TTF_BOLD	Weight of True-Type Font is BOLD.
LK_TTF_ITALIC	Style of True-Type Font is italic.
LK_TTF_UNDERLINE	Style of True-Type Font is underline.

FontDotSize:

[in] It sets the True-Type Font size.(Dot Size).

TextData:

[in] Pointer to a null-terminated Unicode string. It sets Unicode text to print.

ReversePrint:

[in] It sets the value of reverse printing.

Variable	Description
LK_TTF_REVERSE_NO	Not Reverse Printing.
LK_TTF_REVERSE_YES	Reverse Printing.

[Return Values]

LK_SUCCESS : returns after function success..

1.27. long PrintBitmapXY (
long BaseUnitX,
long BaseUnitY,
LPCTSTR BitmapName
);

The function is used to print with bitmap file.

[Parameters]

BaseUnitX:

[in] It sets the x-coordinates for printing the bitmap image.

BaseUnitY:

[in] It sets the y-coordinates for printing the bitmap image.

BitmapName:

[in] This value is a bitmap filename.
It sets the path of the bitmap file for printing.

[Return Values]

LK_SUCCESS : returns after function success.

1.28. long PrintBitmapAlign (
long Alignment,
long BaseUnitY,
LPCTSTR BitmapName
);

The function is used to print with bitmap file.

[Parameters]

Alignment:

[in] It sets justification for printing the bitmap image.

BaseUnitY:

[in] It sets the y-coordinates for printing the bitmap image.

BitmapName:

[in] This value is a bitmap filename.
It sets the path of the bitmap file for printing.

[Return Values]

LK_SUCCESS : returns after function success.

1.29. long PrintQRCodeXY (

long BaseUnitX,
long BaseUnitY,
unsigned char * Data,
long Size,
long ModuleSize,
long ECLevel,
long Version,
long MaskPattern,
)

The function is used to print QRCode using QR Generator.

[Parameters]

BaseUnitX:

[in] It sets the x-coordinates for printing the QR Code.

BaseUnitY:

[in] It sets the y-coordinates for printing the QR Code.

Data:

[in] This value is the data for QRCode with NULL character.
It sets the data for QRCode printing.

Size:

[in] This value is size of data.
It sets the size of data to print QRCode.

ModuleSize:

[in] This value is module size.
It sets the size of module to print QRCode.

[Range] : 1 ~ 20

ECLevel:

[in] This value is Error Correction Level.
It sets the Error Correction Level to print QRCode.

[Range] : 0 ~ 3

[Default] : 0

Variable	Description
LK_QRCODE_EC_LEVEL_L	Error Correction Level L(7%)

LK_QRCODE_EC_LEVEL_M	Error Correction Level M(15%)
LK_QRCODE_EC_LEVEL_Q	Error Correction Level Q(25%)
LK_QRCODE_EC_LEVEL_H	Error Correction Level H(30%)

Version:

[in] This value is version of symbol.

It sets the value of version to print QRCode.

[Range] : 1 ~ 40

Variable	Description
LK_QRCODE_VERSION_00	Auto
LK_QRCODE_VERSION_01	Symbol Version 1
LK_QRCODE_VERSION_02	Symbol Version 2
LK_QRCODE_VERSION_03	Symbol Version 3
…	
LK_QRCODE_VERSION_39	Symbol Version 39
LK_QRCODE_VERSION_40	Symbol Version 40

MaskPattern:

[in] This value is mask pattern.

It sets the value of mask pattern to print QRCode.

Variable	Description
LK_QRCODE_MASK_AUTO	Auto
LK_QRCODE_MASK_0	Mask Pattern 0
LK_QRCODE_MASK_1	Mask Pattern 1
LK_QRCODE_MASK_2	Mask Pattern 2
…	
LK_QRCODE_MASK_6	Mask Pattern 6
LK_QRCODE_MASK_7	Mask Pattern 7

[Return Values]

LK_SUCCESS : returns after function success..

1.30. long PrintQRCodeAlign (

```
        long Alignment,
        long BaseUnitY,
        unsigned char * Data,
        long Size,
        long ModuleSize,
        long ECLevel,
        long Version,
        long MaskPattern,
)
```

The function is used to print QRCode using QR Generator.

[Parameters]

Alignment:

[in] It sets justification for printing the QR Code.

BaseUnitY:

[in] It sets the y-coordinates for printing the QR Code.

Data:

[in] This value is the data for QRCode with NULL character.

It sets the data for QRCode printing.

Size:

[in] This value is size of data.

It sets the size of data to print QRCode.

ModuleSize:

[in] This value is module size.

It sets the size of module to print QRCode.

[Range] : 1 ~ 20

ECLevel:

[in] This value is Error Correction Level.

It sets the Error Correction Level to print QRCode.

[Range] : 0 ~ 3

[Default] : 0

Variable	Description
LK_QRCODE_EC_LEVEL_L	Error Correction Level L(7%)
LK_QRCODE_EC_LEVEL_M	Error Correction Level M(15%)
LK_QRCODE_EC_LEVEL_Q	Error Correction Level Q(25%)
LK_QRCODE_EC_LEVEL_H	Error Correction Level H(30%)

Version:

[in] This value is version of symbol.

It sets the value of version to print QRCode.

[Range] : 1 ~ 40

Variable	Description
LK_QRCODE_VERSION_00	Auto
LK_QRCODE_VERSION_01	Symbol Version 1
LK_QRCODE_VERSION_02	Symbol Version 2
LK_QRCODE_VERSION_03	Symbol Version 3
…	
LK_QRCODE_VERSION_39	Symbol Version 39
LK_QRCODE_VERSION_40	Symbol Version 40

MaskPattern:

[in] This value is mask pattern.

It sets the value of mask pattern to print QRCode.

Variable	Description
LK_QRCODE_MASK_AUTO	Auto
LK_QRCODE_MASK_0	Mask Pattern 0
LK_QRCODE_MASK_1	Mask Pattern 1
LK_QRCODE_MASK_2	Mask Pattern 2
…	
LK_QRCODE_MASK_6	Mask Pattern 6
LK_QRCODE_MASK_7	Mask Pattern 7

[Return Values]

LK_SUCCESS : returns after function success..

1.31. long BlackMarkON

This function is used to support the Black Mark Function.

long

BlackMarkON (

long FeedValue

)

[Parameters]

* FeedValue

- It sets the feed length after meet black mark.[Default : mm]

[Return Values]

LK_SUCCESS : returns after function success..

1.32. long BlackMarkSearch

This function is used to search the Black Mark.

long

BlackMarkSearch ()

[Return Values]

LK_SUCCESS : returns after function success..

Reference

Print Normal () Method

One Shots Perform indicated action.

Name	Data	Remarks
Paper cut	ESC |#P	Cuts receipt paper. The character '#' is replaced by an ASCII decimal string telling the percentage cut desired. If '#' is omitted, then a full cut is performed. For example: The C string "\x1B|75P" requests a 75% partial cut.
Feed and Paper cut	ESC |#fP	Cuts receipt paper, after feeding the paper by the **RecLinesToPaperCut** lines. The character '#' is defined by the "Paper cut" escape sequence.
Feed, Per cut, and Stamp	ESC |#sP	Cuts and stamps receipt paper, after feeding the paper by the **RecLinesToPaperCut** lines. The character '#' is defined by the "Paper cut" escape sequence.
Fire stamp	ESC |sL	Fires the stamp solenoid, which usually contains a graphical store emblem.
Print bitmap	ESC |#B	Prints the pre-stored bitmap. The character '#' is replaced by the bitmap number.
Feed lines	ESC |#lF	Feed the paper forward by lines. The character '#' is replaced by an ASCII decimal string telling the number of lines to be fed. If '#' is omitted, then one line is fed.
Feed units	ESC |#uF	Feed the paper forward by mapping mode units. The character '#' is replaced by an ASCII decimal string telling the number of units to be fed. If '#' is omitted, then one unit is fed.
Feed reverse	ESC |#rF	Feed the paper backward. The character '#' is replaced by an ASCII decimal string telling the number of lines to be fed. If '#' is omitted, then one line is fed.

Print Mode Characteristics that are remembered until explicitly changed.

Name	Data	Remarks
Font typeface selection	ESC |#fT	Selects a new typeface for the following data. Values for the character '#' are: 0 = Default typeface. 1 = Select first typeface from the **FontTypefaceList** property. 2 = Select second typeface from the **FontTypefaceList** property. And so on.

Print Line Characteristics that are reset at the end of each print method or by a “Normal” sequence.

Name	Data	Remarks
Bold	ESC |bC	Prints in bold or double-strike.
Underline	ESC |#uC	Prints with underline. The character ‘#’ is replaced by an ASCII decimal string telling the width of the underline in printer dot units. If ‘#’ is omitted, then a printer-specific default width is used.
Italic	ESC |iC	Prints in italics.
Alternate color (Red)	ESC |rC	Prints in alternate color.
Reverse video	ESC |rvC	Prints in a reverse video format.
Shading	ESC |#sC	Prints in a shaded manner. The character ‘#’ is replaced by an ASCII decimal string telling the percentage shading desired. If ‘#’ is omitted, then a printer-specific default level of shading is used.
Single high & wide	ESC |1C	Prints normal size.
Double wide	ESC |2C	Prints double-wide characters.
Double high	ESC |3C	Prints double-high characters.
Double high & wide	ESC |4C	Prints double-high/double-wide characters.
Scale horizontally	ESC |#hC	Prints with the width scaled ‘#’ times the normal size, where ‘#’ is replaced by an ASCII decimal string.
Scale vertically	ESC |#vC	Prints with the height scaled ‘#’ times the normal size, where ‘#’ is replaced by an ASCII decimal string.
Center	ESC |cA	Aligns following text in the center.
Right justify	ESC |rA	Aligns following text at the right.
Normal	ESC |N	Restores printer characteristics to normal condition.

* Please refer to the source on Visual Basic, VC++, Delphi, Java, PowerBuilder and .Net program attached for the detail information