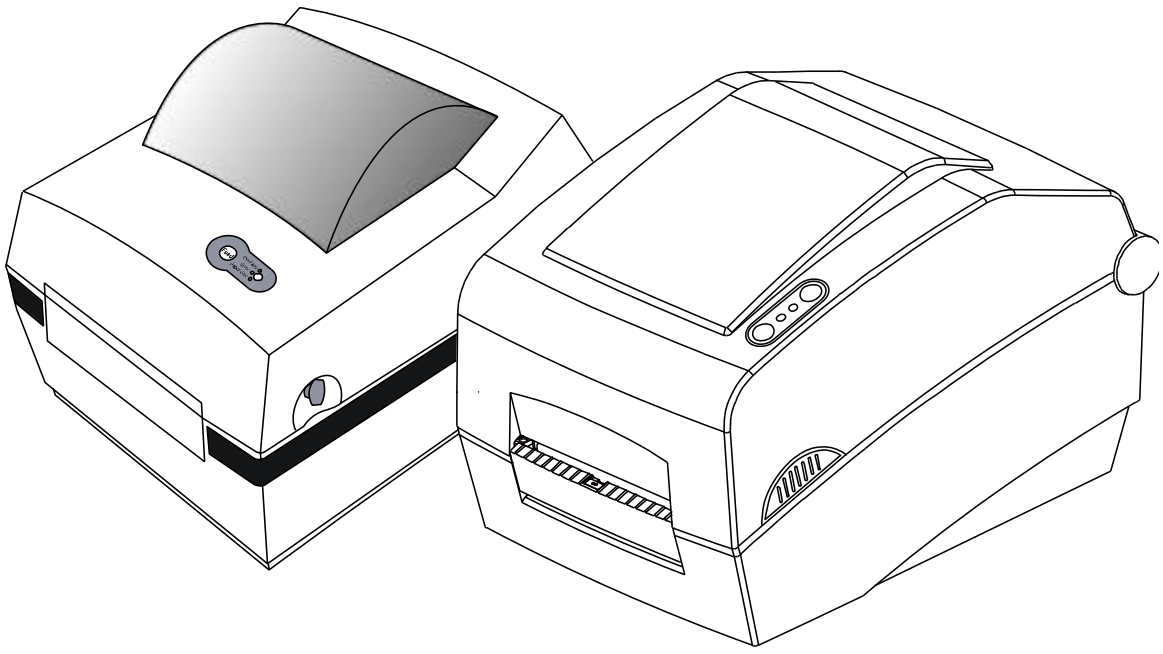
BIXOLON®

Windows Printer Driver
SDK Reference Guide
Label Printers

Rev. 2.03 **BXLLIB.DLL**



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1. ConnectPrinter

The ConnectPrinter function connect to instance of printer which is installed in system.

```
BOOL ConnectPrinter(
        LPCSTR szPrinterName
);
```

Parameters

szPrinterName
[in] Name of printer instance to connect

Return Values

If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.

2. DisconnectPrinter

The DisconnectPrinter function disconnect to instance of printer which is connected.

```
BOOL DisconnectPrinter();
```

Return Values

If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.

3. StartLabel

The StartLabel function start to make label in printer.

```
BOOL StartLabel();
```

Return Values

If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.

Remarks

Must be called this function after call “ConnectPrinter” function.

4. EndLabel

The EndLabel function stop to make label in printer.

```
void EndLabel();
```

Remarks

Must be called this function before call “DisconnectPrinter” function.

5. SetConfigOfPrinter

The SetConfigOfPrinter function set up properties of printer.

```
BOOL SetConfigOfPrinter(
    int nSpeed,
    int nDensity,
    int nOrientation,
    BOOL bAutoCut,
    int nCuttingPeriod,
    BOOL bBackFeeding,
);
```

Parameters

nSpeed
[in] Printing Speed
0: 2.5 ips
1: 3.0 ips
2: 4.0 ips
3: 5.0 ips
4: 6.0 ips
5: 7.0 ips

nDensity
[in] Printing Density (0 ~ 20)

nOrientation
[in] Printing Direction
0: Print from top to bottom
1: Print from bottom to top

bAutoCut
[in] Cut paper
0 or FALSE: Disable Cutter
1 or TRUE: Enable Cutter

nCuttingPeriod
[in] Cutting period

bBackFeeding
[in] Backfeed paper when printing start first
0 or FALSE: Disable backfeeding
1 or TRUE: Enable backfeeding

Return Values

If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.

6. SetPaper

The SetPaper function set up paper of printer.

```
BOOL SetPaper(
    int nHorizontalMargin,
    int nVerticalMargin,
    int nPaperWidth,
    int nPaperLength,
    int nMediaType,
    int nOffSet
    int nGapLengthORThicknessOfBlackLine
);
```

Parameters

nHorizontalMargin
[in] Horizontal margin
nVerticalMargin
[in] Vertical margin
nPaperWidth
[in] Paper width
nPaperHeight
[in] Paper height
nMediaType
[in] Media type
0: Gap
1: Continues
2: Blackmark
nOffset
[in] Offset of gap or blackmark
nGapLengthORThicknessOfBlackLine
[in] Gap length or thickness of black line [dots]

Return Values

If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.

7. PrintDirect

The PrintDirect function send data to port directly.

```
BOOL PrintDirect(
    LPCSTR pDirectData,
    BOOL bAddCrLf
);
```

Parameters

pDirectData
[in] Data to send
bAddCrLf
[in] 0x0D and 0x0A to send

Return Values

If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.

8. Prints

The Prints function start to print.

```
BOOL Prints(
    int nLabelSet,
    int nCopiesOfEachlabel
);
```

Parameters

nLabelSet
[in] Number of label sets (1 ~ 65535)
nCopiesOfEachLabel
[in] Number of copies of each label.

Return Values

If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.

9. PrintDeviceFont

The PrintDeviceFont function print the device font of printer.

```
BOOL PrintDeviceFont(
    int nHorizontalPos,
    int nVerticalPos,
    int nFontName,
    int nHorizontalMulti,
    int nVerticalMulti,
    int nRotation,
    BOOL bBold,
    LPCSTR szText
);
```

Parameters

nHorizontalPos
[in] Horizontal position

nVerticalPos
[in] Vertical position

nFontName
[in] Font Name

Value	Font Size(pt)	Width × Height(dots)
0	6	9 × 15
1	8	12 × 20
2	10	16 × 25
3	12	19 × 30
4	15	24 × 38
5	20	32 × 50
6	30	48 × 76
7	14	22 × 34
8	18	28 × 44
9	24	37 × 58
a	KOREAN 1	16 × 16 (ascii 9×15)
b	KOREAN 2	24 × 24 (ascii 12×24)
c	KOREAN 3	20 × 20 (ascii 12×20)
d	KOREAN 4	26 × 26 (ascii 16×30)
e	KOREAN 5	20 × 26 (ascii 16×30)
f	KOREAN 6	38 × 38 (ascii 22×34)
m	GB2312	24 × 24 (ascii 12×24)
n	BIG5	24 × 24 (ascii 12×24)
j	Shift JIS	24 × 24 (ascii 12×24)

nHorizontalMulti
[in] Font width multiplier (1 ~ 4)

nVerticalMulti
[in] Font height multiplier

nRotation
[in] Rotation type

Value	Rotation
0	No Rotation
1	90 degrees
2	180 degrees
3	270 degrees

bBold
[in] Bold font
0 or FALSE: Normal
1 or TRUE: Bold
szText
[in] Text to print

Return Values

If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.

10. PrintTrueFont

The PrintTrueFont function send data to port directly.

```
BOOL PrintTrueFont(
    int nHorizontalPos,
    int nVerticalPos,
    LPCSTR strFontName,
    int nFontSize,
    int nRotaion,
    BOOL bItalic,
    BOOL bBold,
    BOOL bUnderline,
    LPCSTR strText,
    BOOL bDataCompression
)
```

Parameters

nHorizontalPos
[in] Horizontal position
nVerticalPos
[in] Vertical position
strFontName
[in] Pointer to a null-terminated string that specifies the name of true font
nFontSize
[in] Number of the size of true font.
nRotation
[in] Roation type

Value	Rotation
0	No Rotation
1	90 degrees
2	180 degrees
3	270 degrees

bItalic
[in] Italic font
0 or FALSE: Normal
1 or TRUE: Italic
bBold
[in] Bold font
0 or FALSE: Normal
1 or TRUE: Bold
bUnderline
[in] Underline font
0 or FALSE: Normal
1 or TRUE: Bold
szText
[in] Text to print
bDataCompression
[in] Data compressed

Return Values

If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.

11. Print1DBarcode

The Print1DBarcode function print the 1D Barcode.

```
BOOL Print1DBarcode(
    Int nHorizontalPos,
    int nVerticalPos,
    int nBarcodeType,
    int nNarrowBarWidth,
    int nWideBarWidth,
    int nBarcodeHeight,
    int nRotation,
    int nHRI,
    LPCSTR pData
);
```

Parameters

nHorizontalPos
[in] Horizontal position

nVerticalPos
[in] Vertical position

nBarcodeType
[in] Barcode symbol type

nNarrowBarWidth
[in] Narrow bar width

nWideBarWidth
[in] Wide bar width

nBarcodeHeight
[in] Height of Barcode

nRotation
[in] Rotation type

Value	Rotation
0	No Rotation
1	90 degrees
2	180 degrees
3	270 degrees

nHRI
[in] Human Readable Interpretation

Value	Printing position	Font Size
0	Not printed	0
1	Below the bar code	1
2	Above the bar code	1
3	Below the bar code	2
4	Above the bar code	2
5	Below the bar code	3
6	Above the bar code	3
7	Below the bar code	4
8	Above the bar code	4

pData
[in] Barcode data

Return Values

If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.

12. PrintQRCode

The PrintQRCode function print the QRCode.

```
BOOL PrintQRCode(
    Int nXPos,
    Int nYPos,
    Int nModel,
    Int nECCLevel,
    Int nQRCodeSize,
    Int nRotation,
    LPCSTR pData,
);
```

Parameters

nXPos
[in] Horizontal position (X) [dot]
nYPos
[in] Vertical position (Y) [dot]
nModel
[in] MODEL selection (1 or 2)
nECCLevel
[in] ECC Level
L : 7%
M : 15%
Q : 25%
H : 30%
nQRCodeSize
[in] Barcode Size : 1~4
nRotation
[in] Rotation

Value	Rotation
0	No Rotation
1	90 degrees
2	180 degrees
3	270 degrees

pData
[in] Barcode data

Return Values

If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.

13. PrintBlock

The PrintBlock function draw line block.

```
BOOL PrintBlock(
    int nHorizontalStartPos,
    int nVerticalStartPos,
    int nHorizontalEndPos,
    int nVerticalEndPos,
    int nOption,
    int nThickness
);
```

Parameters

nHorizontalStartPostion
[in] Horizontal start position of line block
nVerticalStartPosition
[in] Vertical start position of line block
nHorizontalEndPosition
[in] Horizontal end position of line block
nVerticalEndPosition
[in] Vertical end position of line block
nOption
[in] Option of line block
0: Line Overwriting
1: Line Exclusive OR
2: Line Delete
3: Slope
4: Box
nThickness
[in] Thickness of line block

Return Values

If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.

14. PrintCircle

The PrintCircle function draw circle.

```
BOOL PrintCircle(
    int nHorizontalStartPos,
    int nVerticalStartPos,
    int nDiameter,
    int nMulti,
);
```

Parameters

nHorizontalStartPostion
[in] Horizontal start position of line block
nVerticalStartPosition
[in] Vertical start position of line block
nDiameter
[in] Circle diameter (1~6)
nMulti
[in] Circle multiplier (1~4)

Return Values

If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.

15. PrintImageLib

The PrintImageLib function print image from image file.

```
BOOL PrintImageLib(
    int nHorizontalStartPos,
    int nVerticalStartPos,
    LPCSTR pImageFilename,
    int nDither,
    BOOL bDataCompression
);
```

Parameters

nHorizontalStartPostion
    [in] Horizontal start position of line block
nVerticalStartPosition
    [in] Vertical start position of line block
pImageFilename
    [in] Pointer to a null-terminated string that specifies the name of the image file.
nDither
    [in] Dither option (-1, 0, 1, 6, 7)
bDataCompression
    [in] Data compressed

Return Values

If the function succeeds, the return value is 1 or TRUE.
If the function fails, the return value is zero or FALSE.