

EPSON OPOS ADK MANUAL

APPLICATION DEVELOPMENT GUIDE

POSPrinter (TM-U675)

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Section 1. Introduction

This manual describes the method of use and related items, as well as machine-specific precautions, when the EPSON TM-U675 Series POS Printers are used with the EPSON OPOS ADK program.

This manual applies to the following devices.

Device List

| Serial | Parallel | USB | Ethernet |
|----------|-----------|-----------|-----------|
| TM-U675 | TM-U675P | TM-U675U | TM-U675E |
| TM-U675M | TM-U675PM | TM-U675MU | TM-U675ME |

Before reading the manual, see the following explanation about the characteristic of the TM-U675 models.

- Station: Receipt / Slip / Validation (Serial impact dot matrix)
- Supports the compatible mode with the TM-U375

Throughout the manual, the various model names will be referred to as TM-U675.

Compatibility mode

The compatibility mode for upward compatibility was added in OPOS Ver2.60.

For the details of the compatibility mode, please refer to “EPSON OPOS ADK MANUAL APPLICATION DEVELOPMENT GUIDE Compatibility Mode”.

Section 2. Details on Settings

This section describes connection configurations and how to make the settings for the TM-U675 printers.

2.1 References of Firmware Versions

Refer to the release notes (Relnote.txt).

2.2 Settings of DIP Switches

Confirm that the following settings have been made correctly.

1) Serial port

DIP-SW1

| No. | Setting | |
|-----|---------|--------------|
| 1 | OFF | Recommended |
| 2 | OFF | Recommended |
| 3 | OFF | Fixed at OFF |
| 4 | OFF | Fixed at OFF |
| 5 | OFF | Settable |
| 6 | OFF | Settable |
| 7 | ON | Settable |
| 8 | OFF | Settable |

DIP-SW2

| No. | Setting | |
|-----|---------|--------------|
| 1 | OFF | Settable |
| 2 | OFF | Settable |
| 3 | OFF | Recommended |
| 4 | OFF | Settable |
| 5 | OFF | Fixed at OFF |
| 6 | OFF | Fixed at OFF |
| 7 | OFF | Fixed at OFF |
| 8 | OFF | Fixed at OFF |

- It is possible to change the settings of DIP-SW1-1 and DIP-SW1-2, but it is recommended to leave them OFF.
- Set DIP-SW1-3 (Handshake) to DTR/DSR.
- Set DIP-SW1-4 (Bit length) to 8 bits.
- Set DIP-SW1-5 to DIP-SW1-8 accordance with the port information.
- The described set values are the default values. For the details, refer to the product manual of the POSPrinter. Also, if these settings are changed, make sure to change the port information using the SetupPOS utility.
- Set DIP-SW2-2 in accordance with whether or not a customer display is connected.
- If connected, set to ON. If not, set to OFF.
- Set DIP-SW2-4 (compatible mode with the TM-U375) to match the environment of use. When the switch is set to ON, DIP-SW2-3 is settable; set to OFF fixed.
- Make other settings in accordance with the settings described above.

2) Parallel Port

DIP-SW1

| No. | Setting |
|-----|---------|
| 1 | OFF |
| 2 | OFF |
| 3 | OFF |
| 4 | OFF |
| 5 | OFF |
| 6 | OFF |
| 7 | OFF |
| 8 | OFF |

Recommended
Recommended
Fixed at OFF
Fixed at OFF
Fixed at OFF
Fixed at OFF
Fixed at OFF
Fixed at OFF

DIP-SW2

| No. | Setting |
|-----|---------|
| 1 | OFF |
| 2 | OFF |
| 3 | OFF |
| 4 | OFF |
| 5 | OFF |
| 6 | OFF |
| 7 | OFF |
| 8 | ON |

Settable
Fixed at OFF
Recommended
Settable
Fixed at OFF
Fixed at OFF
Fixed at OFF
Fixed at ON

- It is possible to change the settings of DIP-SW1-1 and DIP-SW1-2, but it is recommended to leave them OFF.
- Set DIP-SW2-4 (compatible mode with the TM-U375) to match the environment of use. When the switch is set to ON, DIP-SW2-3 is settable; set to OFF fixed.
- When parallel I/F is used with Windows 2000, Windows XP or Windows Vista, please set Busy Condition of DIP-SW2-1 to ON (Buffer full).
- Make other settings in accordance with the settings described above.

3) USB Port

DIP-SW1

| No. | Setting |
|-----|---------|
| 1 | OFF |
| 2 | OFF |
| 3 | OFF |
| 4 | OFF |
| 5 | OFF |
| 6 | OFF |
| 7 | OFF |
| 8 | OFF |

Recommended
Recommended
Fixed at OFF
Fixed at OFF
Fixed at OFF
Fixed at OFF
Fixed at OFF
Fixed at OFF

DIP-SW2

| No. | Setting |
|-----|---------|
| 1 | OFF |
| 2 | OFF |
| 3 | OFF |
| 4 | OFF |
| 5 | OFF |
| 6 | OFF |
| 7 | OFF |
| 8 | ON |

Recommended
Fixed at OFF
Recommended
Settable
Fixed at OFF
Fixed at OFF
Fixed at OFF
Fixed at ON

- It is possible to change the settings of DIP-SW1-1 and DIP-SW1-2, but it is recommended to leave them OFF.
- Set DIP-SW2-4 (compatible mode with the TM-U375) to match the environment of use. When the switch is set to ON, DIP-SW2-3 is settable; set to OFF fixed.
- Make other settings in accordance with the settings described above.

4) Ethernet Port

DIP-SW1

| No. | Setting | |
|-----|---------|--------------|
| 1 | OFF | Recommended |
| 2 | OFF | Recommended |
| 3 | OFF | Fixed at OFF |
| 4 | OFF | Fixed at OFF |
| 5 | OFF | Fixed at OFF |
| 6 | OFF | Fixed at OFF |
| 7 | OFF | Fixed at OFF |
| 8 | OFF | Fixed at OFF |

DIP-SW2

| No. | Setting | |
|-----|---------|--------------|
| 1 | OFF | Recommended |
| 2 | OFF | Fixed at OFF |
| 3 | OFF | Recommended |
| 4 | OFF | Settable |
| 5 | OFF | Fixed at OFF |
| 6 | OFF | Fixed at OFF |
| 7 | OFF | Fixed at OFF |
| 8 | ON | Fixed at ON |

- It is possible to change the settings of DIP-SW1-1 and DIP-SW1-2, but it is recommended to leave them OFF.
- Set DIP-SW2-4 (compatible mode with the TM-U375) to match the environment of use. When the switch is set to ON, DIP-SW2-3 is settable; set to OFF fixed.
- Make other settings in accordance with the settings described above.

2.3 Port Information

1) Port information when serial port is used

The port information that can be set with the SetupPOS utility is as follows.

| Item | Setting range |
|-----------------------------|----------------------|
| Baud rate [bps] | 2400,4800,9600,19200 |
| Bit length [bit] | 8 |
| Parity | NONE, ODD, EVEN |
| Stop bit [bit] | 1 |
| Handshake | DTR/DSR |
| Output buffer length [byte] | 32 to 1024 |
| Output interval time [ms] | 0 to 9999 |

The default settings are as shown in the following table.

| Item | Setting range |
|-----------------------------|---------------|
| Baud rate [bps] | 19200 |
| Bit length [bit] | 8 |
| Parity | NONE |
| Stop bit [bit] | 1 |
| Handshake | DTR/DSR |
| Output buffer length [byte] | 1024 |
| Output interval time [ms] | 2500 |

2) Port information when using parallel port

The port information that can be set with the SetupPOS utility is as follows.

| Item | Setting range |
|-----------------------------|---------------|
| Output buffer length [byte] | 32 to 1024 |
| Output interval time [ms] | 0 to 9999 |

The default settings are as shown in the following table.

| Item | Setting range |
|-----------------------------|---------------|
| Output buffer length [byte] | 1024 |
| Output interval time [ms] | 2500 |

3) Port information when using USB port

The port information that can be set with the SetupPOS utility is as follows.

| Item | Setting range |
|---------------------------|---------------|
| Output interval time [ms] | 0 to 9999 |

The default setting is as shown in the following table.

| Item | Setting range |
|---------------------------|---------------|
| Output interval time [ms] | 2500 |

4) Port information when using Ethernet port

The port information that can be set with the SetupPOS utility is as follows.

| Item | Setting range |
|-----------------------------|---------------|
| Output buffer length [byte] | 32 to 1024 |
| Output interval time [ms] | 0 to 9999 |

The default settings are as shown in the following table.

| Item | Setting range |
|-----------------------------|---------------|
| Output buffer length [byte] | 1024 |
| Output interval time [ms] | 2500 |

2.4 Device Settings

The following explanation is about the settings for TM-U675.

2.4.1 Usable Device Specific Settings

For the TM-U675, the following device specific settings are settable by the SetupPOS utility. For the detail, please refer to the Section 2 of “EPSON OPOS ADK MANUAL APPLICATION DEVELOPMENT GUIDE POSPrinter (TM Series)”.

| Tab | Settings |
|---------------|---|
| General | Ignore panel buttons |
| | Assume print complete when data output finishes |
| | Ignore firmware version check |
| | Output complete timeout |
| Slip | Reverse feed removal |
| | Flash BeginInsertion LED |
| Bitmap | TMFlogo... |
| Color Bitmap | Method |
| | Brightness |
| | Primary |
| Status Log | ERROR |
| | OFFLINE |
| | Log file name (include full path) |
| | Maximum file size [KB] |
| Default Value | Multilingual font ^{*1} |
| | Auto cutter installation |
| | U375 compatible |

^{*1} Available only for the Multilingual character model.

Section 3. Function Details

This section describes the functions of the TM-U675 printers in details. Supplementary explanation of the parts not described in detail in the "UPOS" is also given here.

3.1 Property Set Values and Default Values

The following explanation is about the property set values and the default values.

3.1.1 Capability Set Values

The following values are the Capability set values.

| Capability Name | Set Value |
|-----------------------|---------------|
| CapTransaction | TRUE |
| CapCoverSensor | TRUE |
| CapConcurrentRecSlp | FALSE |
| CapConcurrentJrnSlp | FALSE |
| CapConcurrentJrnRec | FALSE |
| CapConcurrentPageMode | FALSE |
| CapCharacterSet | PTR_CCS_ASCII |
| CapMapCharacterSet | FALSE |
| CapJrnUnderline | FALSE |
| CapJrnNearEndSensor | FALSE |
| CapJrnItalic | FALSE |
| CapJrnEmptySensor | FALSE |
| CapJrnDwideDhigh | FALSE |
| CapJrnDwide | FALSE |
| CapJrnDhigh | FALSE |
| CapJrnColor | 0 |
| CapJrnCartridgeSensor | 0 |
| CapJrnBold | FALSE |
| CapJrn2Color | FALSE |
| CapJrnPresent | FALSE |
| CapRecPageMode | TRUE |
| CapRecUnderline | TRUE |
| CapRecStamp | FALSE |
| CapRecRotate180 | TRUE |
| CapRecRight90 | TRUE |
| CapRecPapercut | TRUE *1 |
| CapRecNearEndSensor | TRUE |
| CapRecMarkFeed | 0 |
| CapRecLeft90 | TRUE |
| CapRecItalic | FALSE |
| CapRecEmptySensor | TRUE |
| CapRecDwideDhigh | TRUE |
| CapRecDwide | TRUE |

| | |
|-----------------------|-------------------|
| CapRecDhigh | TRUE |
| CapRecColor | PTR_COLOR_PRIMARY |
| CapRecCartridgeSensor | 0 |
| CapRecBold | TRUE |
| CapRecBitmap | TRUE |
| CapRecBarCode | TRUE |
| CapRec2Color | FALSE |
| CapRecPresent | TRUE |
| CapSlpUnderline | TRUE |
| CapSlpRotate180 | TRUE |
| CapSlpRight90 | TRUE |
| CapSlpNearEndSensor | TRUE |
| CapSlpLeft90 | TRUE |
| CapSlpItalic | FALSE |
| CapSlpEmptySensor | TRUE |
| CapSlpDwideDhigh | TRUE |
| CapSlpDwide | TRUE |
| CapSlpDhigh | TRUE |
| CapSlpColor | PTR_COLOR_PRIMARY |
| CapSlpCartridgeSensor | 0 |
| CapSlpBothSidesPrint | FALSE |
| CapSlpBold | TRUE |
| CapSlpBitmap | TRUE |
| CapSlpBarCode | TRUE |
| CapSlp2Color | FALSE |
| CapSlpFullslip | TRUE |
| CapSlpPresent | TRUE |
| CapSlpPageMode | TRUE |

*1 If the printer model has an auto cutter, it is set to TRUE. Otherwise, FALSE is set.

3.1.2 List Properties

The List Properties are explained in the following.

| List Property | Settings |
|---|---|
| CharacterSetList | "437,850,852,858,860,863,865,866,998,999,1252" *1 |
| JrnLineCharsList | "" |
| RecLineCharsList | "37,50" |
| RecLineCharsList (Compatible with the TM-U375) | "33,40" |
| SlpLineCharsList | "45,60" |
| SlpLineCharsList (Compatible with the TM-U375) | "33,40" |
| RecBarCodeRotationList | "0, 180" |
| RecBitmapRotationList | "0,R90, L90, 180" |
| SlpBarCodeRotationList | "0, 180" |
| SlpBitmapRotationList | "0,R90, L90, 180" |
| FontTypefaceList | "" |

See the DIP-SW setting to confirm the compatible mode-in, or not with the TM-U375.

*1 If Multilingual character model, "932", "936" or "950" is added to the list.

3.1.3 Width and Height Properties

The width and height properties are described below.

| Property | Settings | | |
|--|---------------|---------------------|---------------------|
| | Default Value | Maximum value [dot] | Minimum value [dot] |
| RecLineSpacing | 12 | 127 | 0 |
| JrnLineSpacing | X | X | X |
| SlpLineSpacing | 12 | 127 | 0 |
| SlpLineHeight [dot] | | 9 | |
| RecLineHeight [dot] | | 9 | |
| JrnLineHeight [dot] | | X | |
| SlpLineWidth [dot] | | 270 | |
| SlpLineWidth [dot] (Compatible with the TM-U375) | | 200 | |
| RecLineWidth [dot] | | 225 | |
| RecLineWidth [dot] (Compatible with the TM-U375) | | 200 | |
| JrnLineWidth [dot] | | X | |
| RecSidewaysMaxLines | | 19 ^{*3} | |
| RecSidewaysMaxLines (Compatible with the TM-U375) | | 16 ^{*3} | |
| RecSidewaysMaxChars (When Font A is selected) | | 117 ^{*3} | |
| RecSidewaysMaxChars (When Font B is selected) | | 117 ^{*3} | |
| RecLinesToPaperCut (With an auto-cutter) | | 12 ^{*1} | |
| RecLinesToPaperCut (Without an auto-cutter) | | 10 ^{*1} | |
| SlpSidewaysMaxLines | | 22 ^{*2} | |
| SlpSidewaysMaxLines (Compatible with the TM-U375) | | 16 ^{*2} | |
| SlpSidewaysMaxChars | | 117 ^{*3} | |
| SlpMaxLines | | 0 | |
| SlpMaxLines (When selecting Validation) | | 8 ^{*2} | |

X : No settings

^{*1} It can be changed by the settings of the RecLineSpacing or the character height.

^{*2} It can be changed by the settings of the XxxLineSpacing or the XxxLineHeight.

^{*3} It can be changed by the settings of the font width.

When the RecLineSpacing is 0, the RecLinesToPaperCut is -1.

When the XxxLineSpacing is 0, the XxxSidewaysMaxLines is -1.

3.1.4 Common Property Strings

The Device information properties are described below.

| I/F | DeviceName | DeviceDescription |
|-----|------------|-----------------------------|
| S | TM-U675 | EPSON TM-U675 POS Printer |
| | TM-U675M | EPSON TM-U675M POS Printer |
| P | TM-U675P | EPSON TM-U675P POS Printer |
| | TM-U675PM | EPSON TM-U675PM POS Printer |
| U | TM-U675U | EPSON TM-U675U POS Printer |
| | TM-U675MU | EPSON TM-U675MU POS Printer |
| E | TM-U675E | EPSON TM-U675E POS Printer |
| | TM-U675ME | EPSON TM-U675ME POS Printer |

I/F indicate the connected interface.

The following is the list of the four connecting interfaces.

S: Serial

P: Parallel

U: USB

E: Ethernet

3.1.5 PageMode Print Properties

The Device information properties are described below.

| Property | Station ^{*2} | | |
|----------------------------------|------------------------------|------------------------------|-----------------------------|
| | Receipt | Slip | Slip (Validation) |
| PageModeArea | (Normal dot) "225", "704" | (Normal dot) "270", "704" | (Normal dot) "270", "93" |
| | (Half dot) "225", "352" | (Half dot) "270", "352" | (Half dot) - |
| PageModeDescriptor ^{*1} | BM/BMR | BM/BMR | BM/BMR |

^{*1} Following setting values are used for the PageModeDescriptor property.

BM : Bitmap printing is available.

BC : Barcode printing is available.

BMR : Rotated printing of bitmap is available.

BCR : Rotated printing of barcode is available.

^{*2} If the Station's CapRecPageMode and/or CapSlpPageMode property values are FALSE, the PageModeArea property shall have "" and the PageModeDescriptor property shall have "0" respectively as a setting value.

3.2 Methods

The following explanation is about supported/unsupported Methods, and the detailed information.

| Method | Supported/Unsupported | Compatibility with the PageMode printing |
|-------------------|---------------------------------------|--|
| PrintNormal | O | O |
| PrintTwoNormal | X | X |
| PrintImmediate | O | O *1 |
| PrintBarCode | O | O *2 |
| PrintBitmap | O | O *3 |
| PrintMemoryBitmap | O | O *3 |
| CutPaper | O (1~100: One point remains uncut) | X |
| MarkFeed | X | X |
| ChangePrintSide | X | X |
| ValidateData | O | O |
| TransactionPrint | O | O |
| SetLogo | O | O |
| SetBitmap | O | O |
| RotatePrint | O | X |
| EndRemoval | O | O |
| BeginRemoval | O | O |
| EndInsertion | O | O |
| BeginInsertion | O | O |
| ClearPrintArea | O | O |
| PageModePrint | O | O |

O: Supported

X : Unsupported

*1 If the specified Station is ready to print, the printing data shall not be stored in the PageMode printing buffer but, instead, go straight to printing. If the Station is not ready to print, an error is returned.

*2 If other than "LEFT" is specified for the printing position of barcode, the printing shall be done, regardless of the PageModeHorizontalPosition property setting, based on the PageModePrintArea property setting in the horizontal direction.

*3 If other than "LEFT" is specified for the printing position of bitmap, the printing shall be done, regardless of the PageModeHorizontalPosition property setting, based on the PageModePrintArea property setting in the horizontal direction.

3.3 Escape Sequences

The following figure is about supported/unsupported Escape Sequences.

| Escape Sequence | Receipt | Slip | Compatibility with the PageMode printing |
|-----------------------|---------------------|------------------|--|
| #P | 0~100 ^{*1} | X | X |
| #fP | 0~100 ^{*1} | X | X |
| #sP | X | X | X |
| sL | X | X | X |
| #B | O | O | O |
| tL | O | O | O |
| bL | O | O | O |
| #R | O | O | O |
| #lF | 0~9999 | 0~9999 | O |
| #uF | 0~ approx. 50 cm | 0~ approx. 50 cm | O |
| #rF Maximum [inch] | X | 327 | X |
| #E | 0~65535 | 0~65535 | X |
| #fT | X | X | X |
| [!]bC | O | O | O |
| #uC | 1 | 1 | O |
| [!]iC | X | X | X |
| #rC | 1 | 1 | O |
| [!]rvC | X | X | X |
| #sC | X | X | X |
| #fC | X | X | X |
| [!]tbC | X | X | X |
| [!]tpC | X | X | X |
| 1C | O | O | O |
| 2C | O | O | O |
| 3C | O | O | O |
| 4C | O | O | O |
| #hC | 1~2 | 1~2 | O |
| #vC | 1~2 | 1~2 | O |
| cA | O | O | O ^{*2} |
| rA | O | O | O ^{*2} |
| lA | O | O | O |
| N | O | O | O |

O: Supported

X : Unsupported

Numbers: Settable range

^{*1} Supports only for the models with an auto cutter.

^{*2} Regardless of the PageModeHorizontalPosition property setting, center or right adjust what is to be printed based on the PageModePrintArea property setting in the horizontal direction.

3.4 Printable Barcode Type

The TM-U675 models allow the following barcode types.

- Code 128
- Code 128 Parsed
- Code 93
- Codabar
- ITF
- Code 39
- JAN 13 (EAN 13)
- JAN 8 (EAN 8)
- UPC-E
- UPC-A

3.5 Power Condition Reports

The TM-U675 models support Power Condition Reports as follows.

Powered on reporting: Supported.

Powered off reporting: Unsupported.

3.6 Synchronous Processing

The TM-U675 models use Process ID to determine output completion.

Use of the Process ID allows for multiple print commands to be queued to the printer simultaneously. For this reason, Asynchronous output (AsyncMode = TRUE) gives a performance improvement.

3.7 Printing Positions

The TM-U675 models support the function for setting printing position.

| Function | Receipt | Slip |
|-------------------|---------|------|
| Left margin | O | O |
| Printing Position | O | O |

O: Supported

X : Unsupported

When the left margin setting function is supported, it is possible to specify the horizontal printing position of the bitmap or barcode by dots unit.

When the printing position settings are supported, it is possible to specify the horizontal printing position of the text, bitmap, or the barcode to the left, center, or the right side of the paper.

3.8 Electronic Logo Function (NVRAM)

The TM-U675 models feature a function for electronic logo. To use the electronic logo function (NVRAM), start “TMFlogo utility” from the “Device Specific Settings” of SetupPOS utility, and register image files (BMP style) at the function in advance. For the details of the registration, please refer to the “Help” of “TMFlogo utility” and/or “EPSON OPOS ADK MANUAL User’s Manual TMFlogo Utility”

To print the registered image file, please use the following DirectIO.

PTR_DI_FLASH_BITMAP

PTR_DI_FLASH_BITMAP2

For the details of the printing, please refer to the Section 4 of “EPSON OPOS ADK APPLICATION DEVELOPMENT GUIDE POSPrinter (TM Series)”. The available NVRAM size for the TM-U675 is 393216 bytes or 262144 bytes for Multilingual character models.

3.9 Printable Bitmap Types and Sizes

The TM-U675 models support the following bitmap commands. For the detail, please refer to the Section 3 of “EPSON OPOS ADK MANUAL APPLICATION DEVELOPMENT GUIDE POSPrinter (TM Series)”. The allowance ranges for bitmaps are as follows.

| Bitmap command type | Allowance range | | |
|---------------------|------------------|---------|----------|
| Download bitmap | X (dot) | y (dot) | xy |
| | 1-2040 | 1-2040 | <= 32768 |
| luster bitmap | 1-1024 | 1-1024 | |
| One-line bitmap | No setting range | | |

3.10 Maintenance Counter

The TM-U675 models feature a maintenance counter function for retaining an operation log of the printer. The following chart shows the available maintenance counters for the TM-U675.

| Counter number Hexadecimal | Counter | Unit | Max. Value | Counter Type |
|-------------------------------|---|------------|---------------|-----------------|
| 0A | Paper feed in number of lines: Slip | Lines | 178,956,970 | Resettable |
| 0B | Number of printed characters: Slip (front side) | Characters | 715,827,882 | Resettable |
| 32 | Number of auto-cutter operations | Times | 4,294,967,295 | Resettable |
| 3C | Number of check paper readings | Times | 4,294,967,295 | Resettable |
| 46 | Uptime of product | Hours | 71,582,788 | Resettable |
| 8A | Paper feed in number of lines | Lines | 178,956,970 | Cumulative |
| 8B | Number of printed characters: Slip (front side) | Characters | 715,827,882 | Cumulative |
| B2 | Number of auto-cutter operations | Times | 4,294,967,295 | Cumulative |
| BC | Number of check paper readings | Times | 4,294,967,295 | Cumulative |
| C6 | Uptime of product | Hours | 71,582,788 | Cumulative |

3.11 Automatic Recovery Function

The TM-U675 models feature a function for automatic recovery when the power is turned on again after an interruption of power. Recovery processing is performed automatically when the printer's power is turned on again after an interruption. The recovery processing restores the printer to the condition it was in before the power was turned off.

3.12 Output without flow control on the USB/Ethernet interfaces

The TM-U675 models support outputting without flow control on the USB/Ethernet interfaces. The operations differ by the firmware versions. See the section 2 of this manual.

3.13 LED Blinking when BeginInsertion is executed

In the case of the TM-U675, settings can be made in the SetupPOS utility so that the LED of the Slip starts blinking when BeginInsertion is executed. When the settings have been made in the SetupPOS utility, the LED of the slip will start blinking to indicate that the device is waiting for the paper to be inserted when the BeginInsertion method is executed.

3.14 Compatible Mode with the TM-U375

The TM-U675 models are equipped with a TM-U375 compatible mode.

When use the mode, please refer to the information on dipswitch settings described in the manual. The printing area and related property values will be amended accordingly when in the TM-U375 compatibility mode. However, the operation may fail if unsupported firmware version is used. Use the firmware version correctly informed in the manual.

3.15 Validation Printing

The TM-U675 models support both slip and validation printing.

Select Validation using the DirectIO method.

Specify `PTR_DI_SELECT_SLIP` in the first parameter, then specify `PTR_DI_SLIP_FULLSLIP` or `PTR_DI_SLIP_VALIDATION` in the second parameter. After switching slip and validation, execute the `Begin/EndInsertion`, `Begin/EndRemoval`, or `PrintNormal` as normal printing operation. Some properties are automatically changed by the switching.

For the detail of the DirectIO methods, please refer to the Section 4 of "EPSON OPOS ADK MANUAL APPLICATION DEVELOPMENT GUIDE POSPrinter (TM Series)". Also refer to the Section 5 of the manual for the programming examples.

Section 4. Warnings

This section describes precautions in use of TM-U675.

There is no specific warning.