

EPSON OPOS ADK MANUAL

**APPLICATION DEVELOPMENT
GUIDE**

POSPrinter (TM-U675)

Version 3.00 Feb. 2019

Notes

- (1) Reproduction of any part of this documentation by any means is prohibited.
- (2) The contents of this documentation are subject to change without notice.
- (3) Comments and notification of any mistakes in this documentation are gratefully accepted.
- (4) This software cannot be used with other equipment than the specified.
- (5) EPSON will not be responsible for any consequences resulting from the use of any information in this documentation.

Trademarks

Microsoft®, Windows®, Visual Basic® and Visual C++® are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

EPSON® and ESC/POS® are registered trademarks of Seiko Epson Corporation.

Other product and company names used herein are for identification purposes only and may be trademarks or registered trademarks of their respective companies.

Contents

SECTION 1. INTRODUCTION	1
SECTION 2. DETAILS ON SETTINGS	2
2.1 References of Firmware Versions	2
2.2 Settings of DIP Switches	2
2.3 Port Information	5
2.4 Device Settings	7
2.4.1 Usable Device Specific Settings.....	7
SECTION 3. FUNCTION DETAILS	8
3.1 Property Set Values and Default Values	8
3.1.1 Capability Set Values.....	8
3.1.2 List Properties.....	10
3.1.3 Width and Height Properties	11
3.1.4 Common Property Strings	12
3.1.5 PageMode Print Properties.....	12
3.2 Methods	13
3.3 Escape Sequences	14
3.4 Printable Barcode Type	15
3.5 Power Condition Reports.....	15
3.6 Synchronous Processing	15
3.7 Printing Positions	16
3.8 Electronic Logo Function (NVRAM)	16
3.9 Printable Bitmap Types and Sizes	17
3.10 Maintenance Counter	17
3.11 Automatic Recovery Function	17
3.12 Output without flow control on the USB/Ethernet interfaces.....	18
3.13 LED Blinking when BeginInsertion is executed	18
3.14 Compatible Mode with the TM-U375	18
3.15 Validation Printing.....	18
SECTION 4. WARNINGS.....	19

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	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	Settable
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.

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
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.

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
!bC	O	O	O
#uC	1	1	O
iC	X	X	X
!iC	X	X	X
#rC	1	1	O
rvC	X	X	X
!rvC	X	X	X
#sC	X	X	X
#fC	X	X	X
tbC	X	X	X
!tbC	X	X	X
tpC	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.