

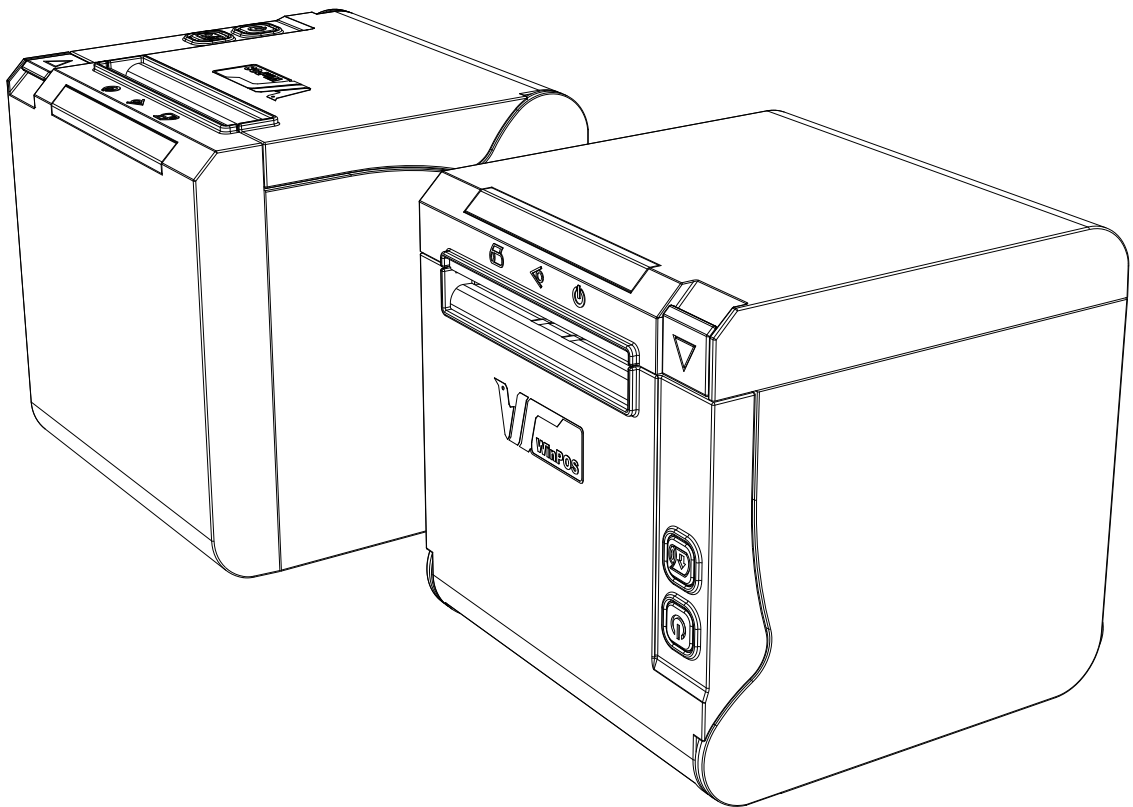
WinPOS

USER MANUAL

1 Station Thermal Line
Receipt Printer

Model: WP-T720

Version: 1.00



WP-T720 Thermal Printer

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WP-T720 Thermal Printer

1. General Description

1.1 Overview

The WP-T720 is of a cube-shaped design. And it is able to output paper in top or front directions. Users can set up the WP-T720 printer based on the counter space and environment.

The printer's status reflects in the LED light. The LED flashes in different colors that keep users track the printer status at any time. For example, blue LTD flashes indicating the ticket is on the exit door for users to take it off. Besides LED lights, the printer built-in a reminder sound that also reacts by printer status.

The product serial has two different models for 58mm and 80mm width thermal paper. All the models are with a USB interface, cash drawer connector, and an interface slot. The slot can insert different interfaces like RS-232, Ethernet, and Bluetooth.

The printer WP-T720 is applicable to retail, catering, department stores, and will offer you the best printing experience.

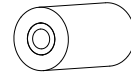
WP-T720 Thermal Printer

1.2 Features

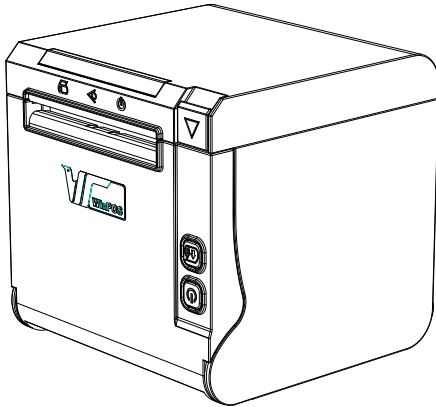
1. Compact and cubic desktop line thermal printer.
2. Easy loading designed for dropping the paper roll.
3. Built-in USB and an interface slot to insert an interface card. Users can insert RS-232C, Ethernet, or Bluetooth cards based on the application.
4. Command protocol is compatible with ESC/POS.
5. Drawer kick-out connector.
6. The resident data buffer has storage capacity of 128K-bytes, enable data to be received while printing.
7. Support download bit image, directly bit image, bar-code and QR code printing.
8. The sensors indicate paper end, paper near end, ticket untaken, cover open, and printer-head overheat.

WP-T720 Thermal Printer

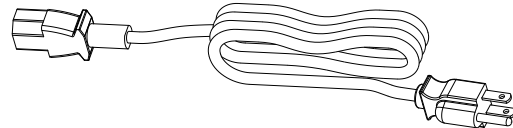
1.3 Unpacking check



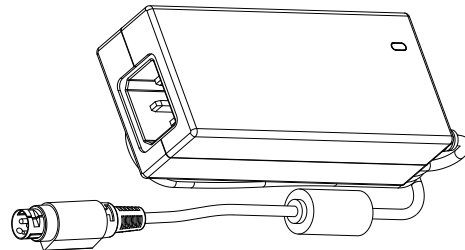
Thermal paper



WP-T720 thermal printer



Power cord



Power supply



RS-232 cable (packed with RS-232 interface version)



USB cable (packed with USB interface version)

WP-T720 Thermal Printer

2. Specifications

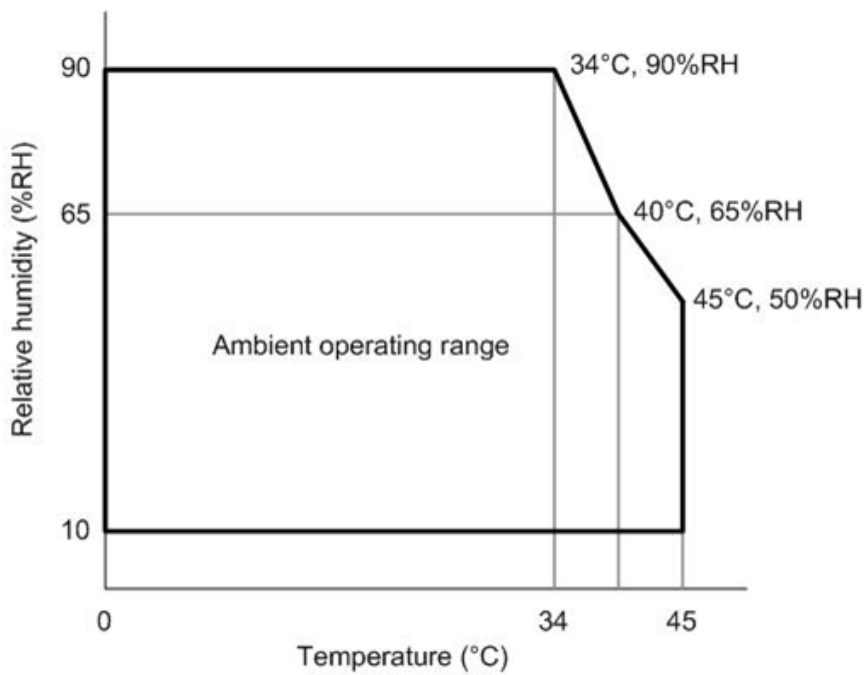
2.1 Main Specifications

Item			Description		
1	Printing method		Thermal line		
2	Printing speed		Approx. 250 mm/s		
3	Command		ESC/POS		
4	Driver		Linux, Windows and OPOS		
5	Character structure		Alphanumeric (A)	Alphanumeric(B)	Kanji
			12 x 24 dots	9 x 17 dots	24 x 24 dots
6	58/80mm columns		34/48 columns	45/64 columns	17/24 columns
7	Character size		1.50 x 3.00 mm	1.13 x 2.13 mm	3.00 x 3.00 mm
8	Density		203dpi		
9	Fonts		Multilingual code page x 46 Chinese, Japanese, Thai, Korean, and Unicode		
10	Bar code		UPC-A, UPC-E, EAN13, EAN8, Code39, Code93, CODABAR, Code128, ITF, QR Code		
11	Detectors		Paper end, Paper near end, Cover, Printer head overheat Cutter jam, and paper untaken		
12	Paper		Single-ply thermal paper roll		
13	Paper roll size		57.5±0.5 (W) x 83 mm (Dia.)	79.5±0.5 (W) x 83 mm (Dia.)	
14	Paper thickness		0.05 ~ 0.06 mm		
15	Drawer output		2 (RJ11 / 6 PIN)		
16	Reliability	Head	150 km or more		
		Cutter	1,500,000 times		
17	Memory	Buffer	4K bytes		
		SRAM	128K bytes		
		Flash	1M bytes (NV image)		
18	Power supply		+24 VDC / 2.5 A		
19	Interface		Built-in USB / RS-232, Parallel and Ethernet, Bluetooth, and Wi-Fi are optional		
20	Weight		750g		
21	External dimension		129 (W) x 129 (D) x 129 (H) mm		
22	Temperature		Operating: 0 ~ 45°C Storage: -10 ~ 50°C		
23	Humidity		Operating: 10 ~ 90 %RH Storage: 10 ~ 90 %RH		

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2.2 Operating Specifications

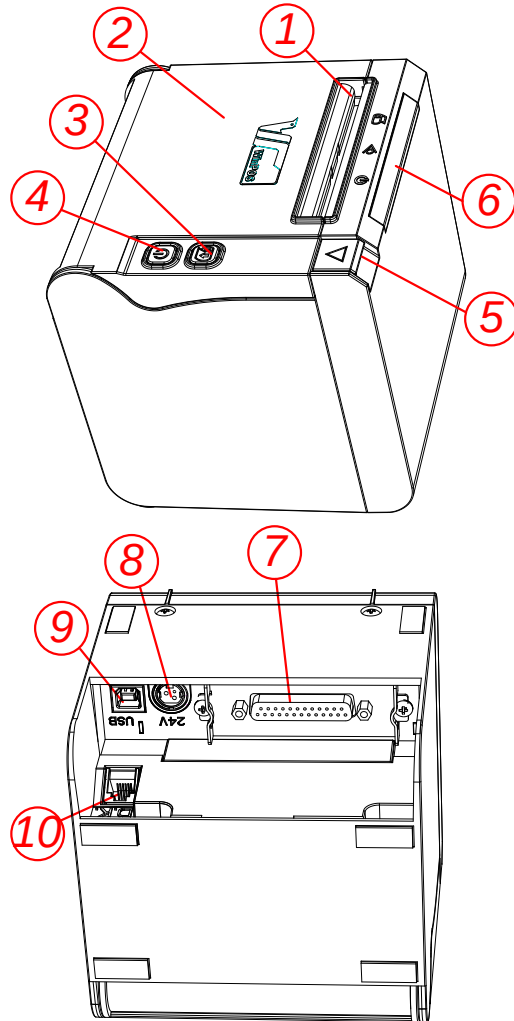
Item		Description
Temperature/ Humidity	Operating	0 to 45°C (32 to 113°F), 0 to 90% RH no condensation allowed. (Refer to ambient operating ranges in the figure below.)
	Storage (shipped packed state)	-10 to +50°C (14 to 122°F), 0 to 90% RH (excluding paper)



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3. External Appearance and Descriptions

1. Printer paper exit
2. Printer cover
3. Paper feed button
4. Power ON/OFF
5. Cover open lever
6. Status LED
7. Interface card
8. Power connector
9. USB interface
10. Cash drawer connector

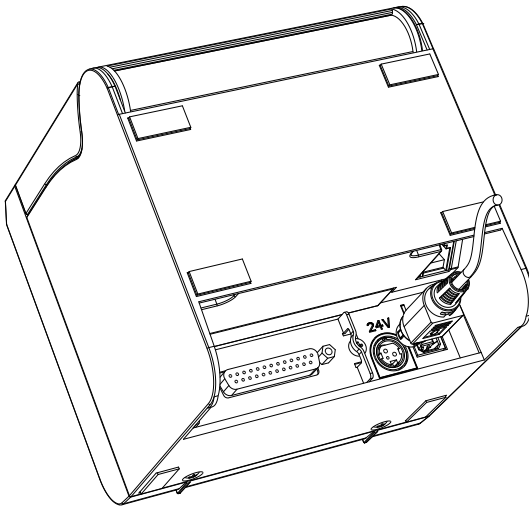


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4. Installation

4.1 How to Connect Power Adapter

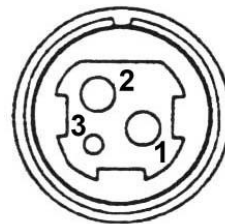
1. Plug the power connector into the printer's power connector.
2. Plug the power cord into the outlet, and turn on the power.



3. Connector Specifications shows as below.

Power connector pin-assignment

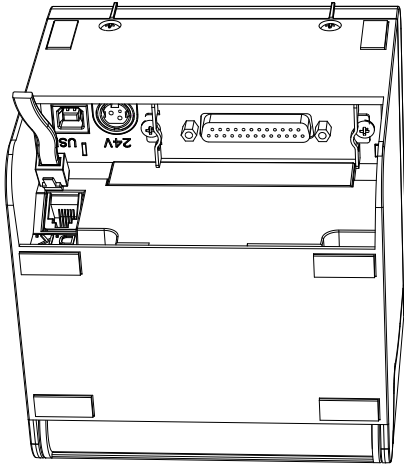
Pin Number	Signal Name
1	+24VDC
2	GND
3	NC
Shell	Frame GND



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4.2 How to Connect Cash Drawer

1. Ensure that the power is OFF.
2. Plug the connector into the RJ11 phone jack.

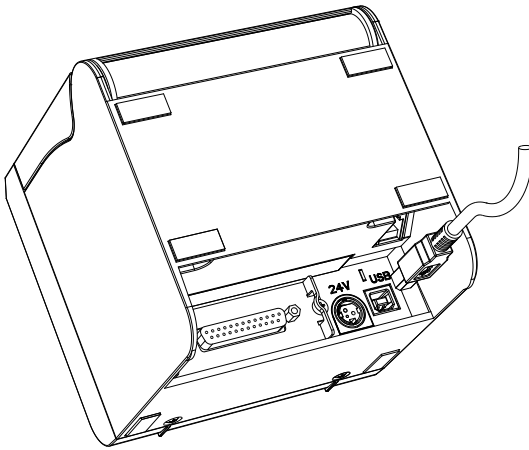


Note: The voltage for drawer kick out is 24VDC. If voltage of cash drawer is different that may harm the cash drawer.

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4.3 How to Connect USB Connector

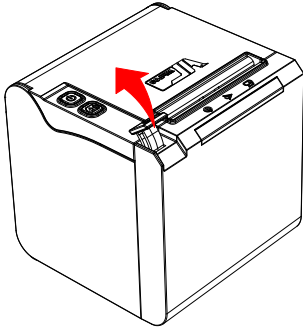
1. Ensure that the power is OFF.
2. Plug B type USB into the USB connector.



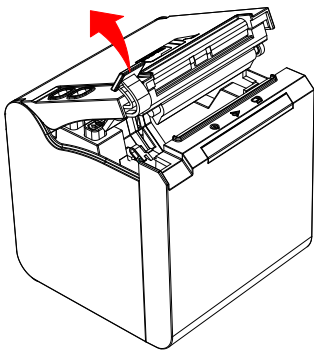
WP-T720 Thermal Printer

4.4 How to Load Thermal Paper (paper out from the topside)

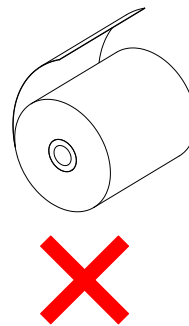
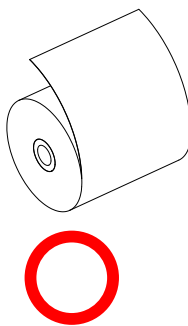
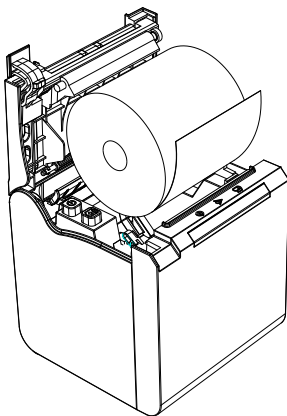
1. Pull the lever of the printer.



2. Open the printer cover

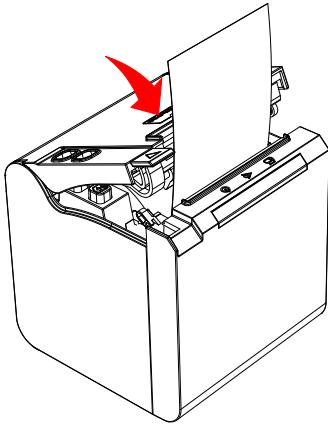


3. Load the roll of thermal paper at correct direction.

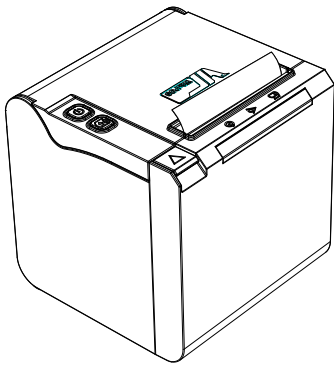


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4. Pull out the paper and close the printer's cover.



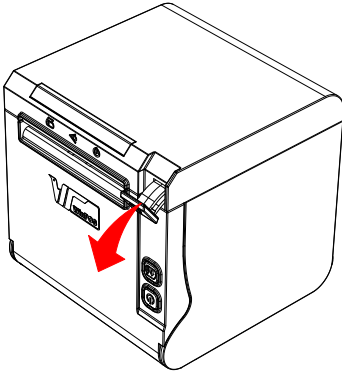
5. The printer will automatically cut the rest after power on.



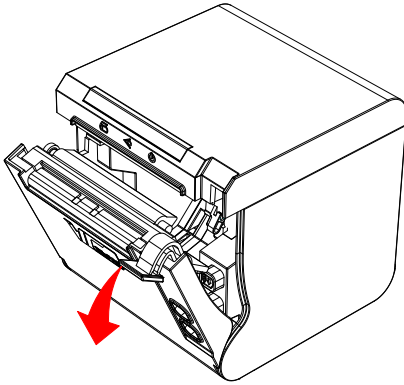
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4.5 How to Load Thermal Paper (paper out from the front side)

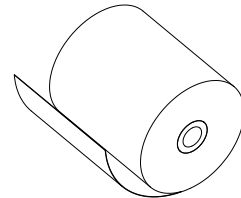
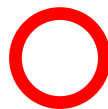
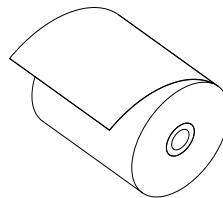
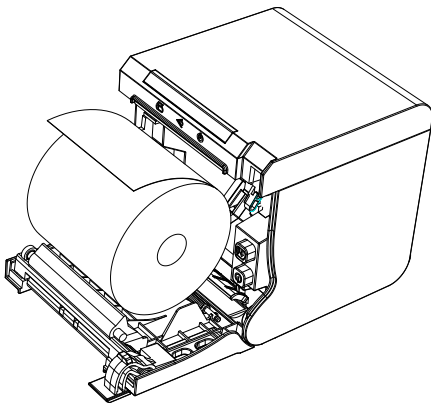
1. Pull the lever of the printer.



2. Open the printer cover.

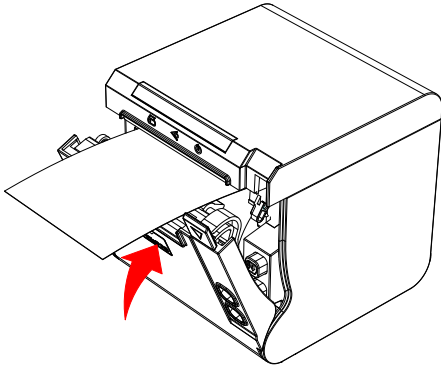


3. Load the roll of thermal paper at correct direction.

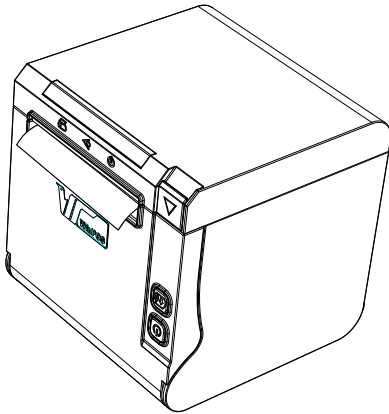


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4. Pull out the paper and close the printer's cover.



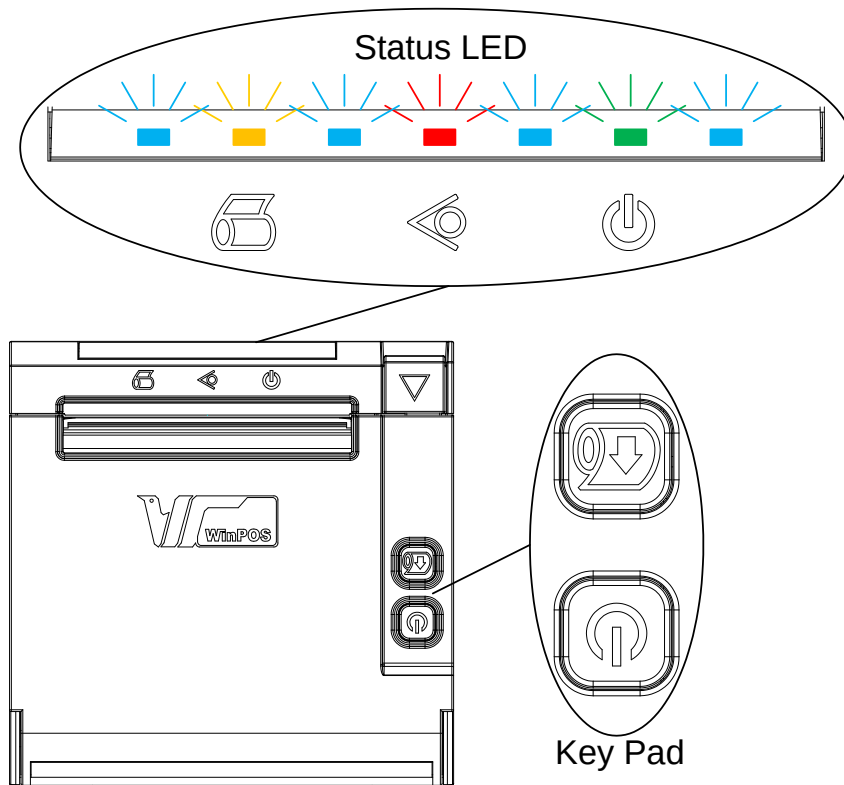
5. The printer will automatically cut the rest after power on.



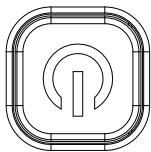
WP-T720 Thermal Printer

5. Control Panel

5.1 Basic Operation



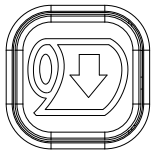
1. Power ON/OFF button



Press about 0.5 second to power ON or OFF the printer

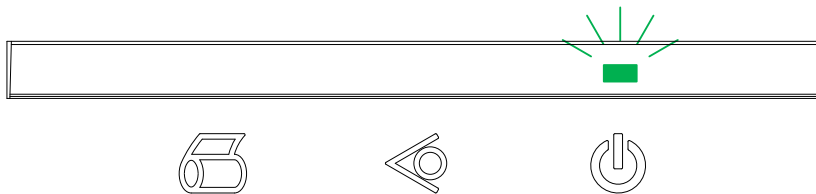
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2. Feed button.



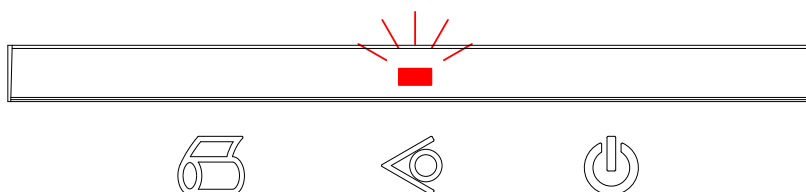
When this push-button switch is pressed once briefly (for 0.5 seconds or less), the paper is fed forward by one line. When it is held down continuously, the paper is fed forward continuously until the switch is released.

3. Power LED indicator



The power LED remains lighting indicates the power supply well connected.

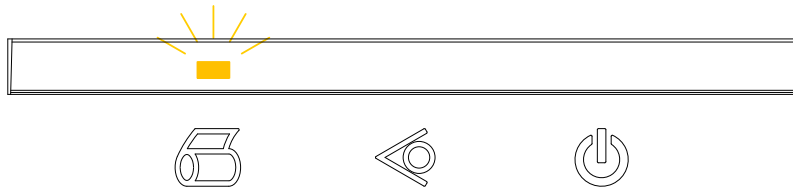
4. Error LED indicator



When printer cover is not properly closed or paper jam happen on cutter part or paper is not put properly, the error indicator lamp (red LED) will light.

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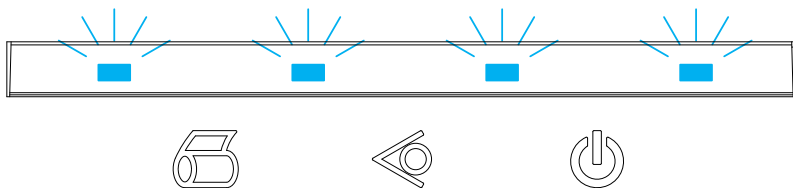
5. Paper LED indicator



- The indicator remains lighting when paper near end or paper end.
- The indicator keeps sparkling when printer process in self-test or hexadecimal dump mode.
- The flash timing chart shows as below.

Printer status	Blinking Pattern
Self-Testing	
Paper end	

6. Reminder LED indicator



The reminder LED flashes to remind users to take the printed ticket.

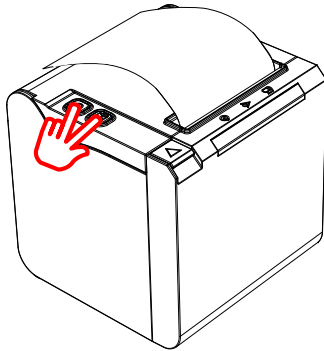
7. Beep reminder

The number of beep sounds reflects the status of the printer as the following form.

Number of beeps	Printer status
2 beeps	Cover open
3 beeps	Paper end
4 beeps	Cutter jam

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5.2 Self-printing mode



Turn off the printer power. Then press the power button and the feed button simultaneously to perform a self-test print.

Example of self-test printing result:

```
*** WP-T720 ***

F/W Version: 0.91a
H/W Version: 1.0
Ext. Flash: 4M Bytes
Printing Speed: 250mm/s
Command: ESC/POS
Error Alarm: On
Paper Width: 80mm
Print Energized: Level 0
Default Code Page: Not found
Near-End Detect Voltage: 2.4V
Cut Mode: By Command

Interface:
USB

RS-232C:
115200,N,8,1,DTR/DSR

Font:
USA,

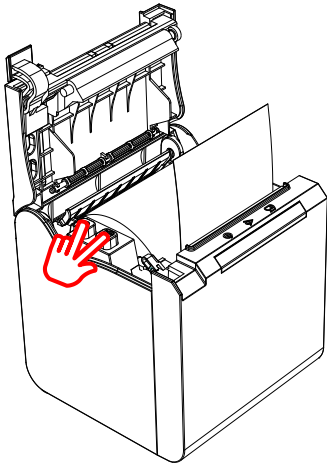
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNO
PQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNO
PQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

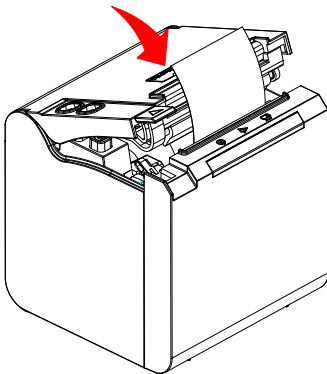
-----
*** Test Completely ***
```

WP-T720 Thermal Printer

5.3 Hexadecimal dump mode

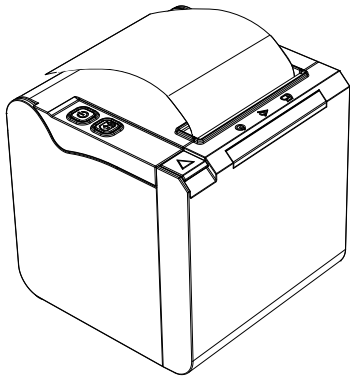


1. Turn on the printer power and open the printer's cover.
2. Press the power button and the feed button simultaneously about 3 seconds.



3. Fingers release both buttons.
4. Close the printer cover.

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5. The printer will feed out paper for a length and set the printer in Hexadecimal Dump mode

Example of hexadecimal dump printing result:

```
=== Hexadecimal Dump ===  
  
31 32 33 34 35 36 37 38 39 30 41 1234567890A  
42 43 44 45 46 47 48 49 4A 4B 4C BCDEFGHIJKL  
4D 4E 4F 50 51 52 53 54 55 56 57 MNOPQRSTUVWXYZ  
58 59 5A XYZ
```

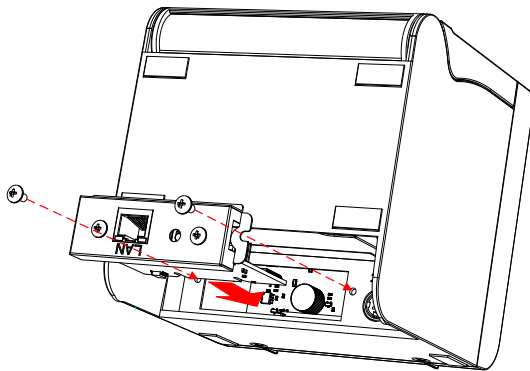
To turn off the hexadecimal dump mode, it is necessary to turn off the printer power completely.

6. Interface Specifications

WP-T720 has a built-in USB and an interface card slot. The interface card slot can insert RS232c, parallel, Ethernet, and other interface cards according to the application.

6.1 How to replace an interface card

Turn off the printer power and release the screws. Then remove the interface card and Insert the new interface card and finally tighten the screws.



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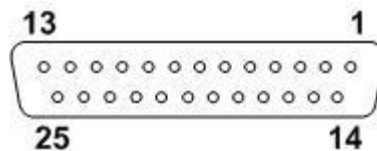
6.2 Serial Interface Specifications

1. Specifications (Conform to RS-232C)

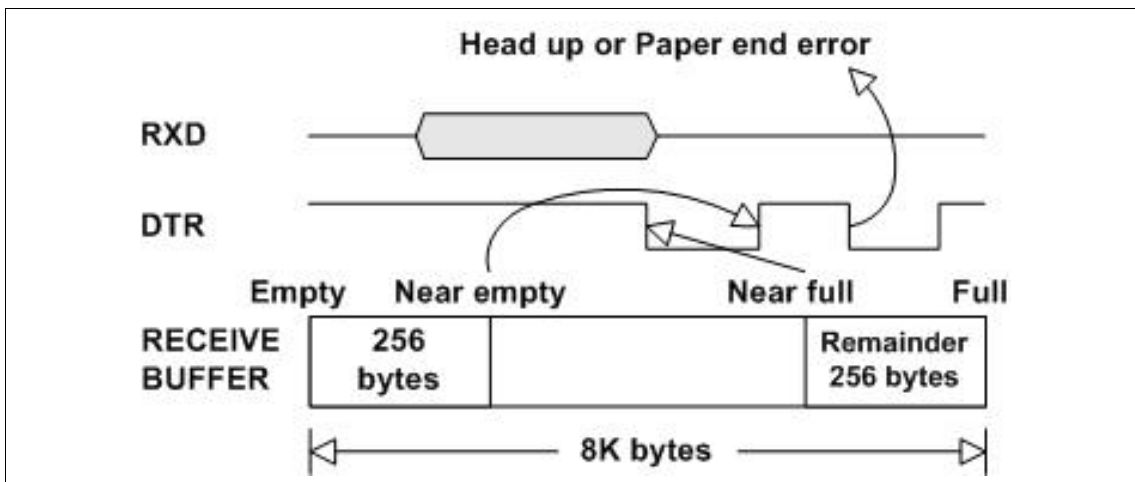
Synchronizing system	Asynchronous system
Handshaking	DTR/DSR control
Baud rate	9600,19200,38400,115200 (Refer chapter 5.3)
Data length	7 or 8 bit length
Parity	None, even or odd

2. Pin assignment

No.	Signal Name	I/O	Signal Name
2	TXD	Output	Transmit data
3	RXD	Input	Receive data
6	DSR	Input	Data set ready
20	DTR	Output	Data terminal ready
7	GND	-	Signal ground



3. Timing Chart



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6.3 Parallel interface specifications

1. Specifications (Conform to Centronics)

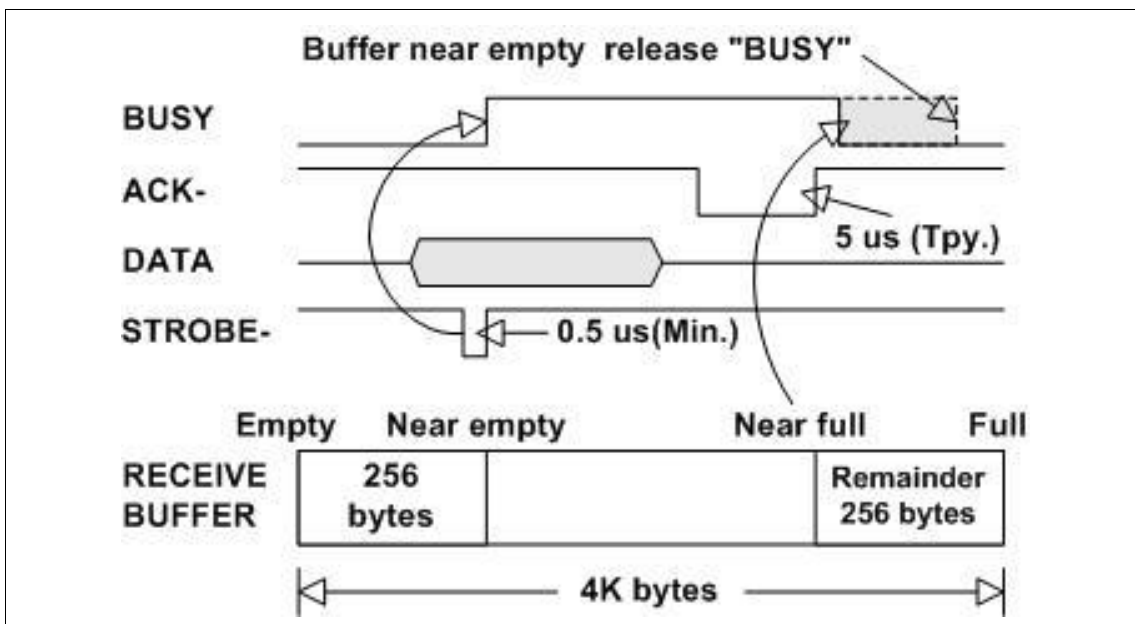
Data transmission format	8-bit parallel
Synchronizing system	According to the strobe pulses
Handshaking	According to the BUSY signal
Signal level	TTL level

2. Pin assignment

No.	Signal Name	I/O	Signal Name
1	STB-	17	F.G.
2-9	DATA 1 – DATA 8	18	NC
10	ACK-	19-30	TWISTED PAIR GND
11	BUSY	31	RESET-
12	PE	32	FAULT-
13-15	NC	33	GND
16	GND	34-36	NC



3. Timing Chart



WP-T720 Thermal Printer

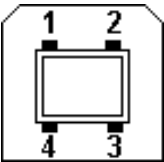
6.4 USB interface specifications

1. Specifications

- USB B type/ female
- USB specification 2.0 complaint, full speed mode (12 Mbps)

2. Pin assignment

No.	Signal Name	Function
1	5VDC	Power input
2	USBD-	USB data signal -
3	USBD+	USB data signal +
4	GND	Signal ground



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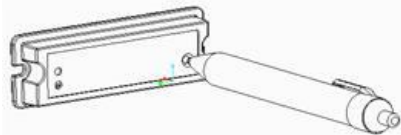
6.5 Bluetooth interface specifications

1. Specifications

Compatibility	Bluetooth 3.0+EDR and Bluetooth 4.0 stack
Transmitter power out put	+2 dBm typical
Receive sensitivity	-90 dBm (Classic)
Range	10m (free space)
Antenna	Internal ceramic chip antenna

2. Bluetooth interface card panel



Panel	Description	
Link LED	ON	Connecting
	OFF	Disconnecting
Status LED	The LED will be blinking while data transmission	
Pair button	Hold the button for two seconds to turn the printer to self-test mode and to set the Bluetooth interface to discoverable status for 60 seconds. The printer will make 2 short beeps when the above mentioned setting is complete. When a device pairs the Bluetooth interface card. . . ● If pairing is successful, the printer will make 3 short beeps. ● If no pairing in 60 seconds, the printer will make a long beep for 1.5 seconds. The printer and the Bluetooth card will be turned back in normal status after 60 seconds. And the Bluetooth will be in indiscoverable status.	
	How to hold the pair button 	

7. Cash Drawer Connector

1. Specifications

(1) Data Transfer System

The pulse specified by “ESC p” is output to this connector. The host can confirm the status of the input signal by using the “ESC u” command.

(2) Electrical Characteristics

Drive voltage : DC 24V

Drive current : 0.8A at maximum (Should be within 510 ms)

Switch signal : Signal level “L” = 0 to 0.5V

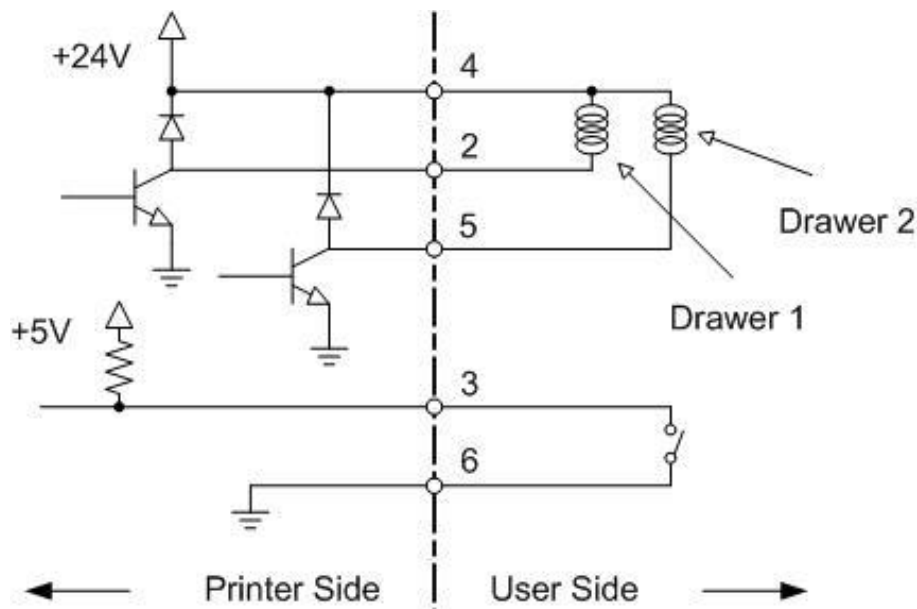
“H” = 3 to 3.3V

2. Pin assignment

No.	Signal Name	Description
1	-	NC
2	DRAW1	Drawer kick-out 1
3	DRAW-S	Drawer open/close signal
4	V+	+24V
5	DRAW1	Drawer kick-out 2
6	GND	Signal ground



3. Drive Circuit



8. Commands

8.1 Commands Description

Command	HT
Code (Hex)	09
Name	Horizontal tab
Command	LF
Code (Hex)	0A
Name	Print and line feed
Command	FF
Code (Hex)	0C
Name	Print and return to standard mode in page mode
Command	CR
Code (Hex)	0D
Name	Print and carriage return
Command	CAN
Code (Hex)	18
Name	Cancel print data on page mode
Command	DLE EOT n
Code (Hex)	10 04 n
Name	Real-time status transmission (Ref. 7.2)
Command	DLE ENQ n
Code (Hex)	10 05 n
Name	Real-time request to printer
Command	DLE DC4 n m t
Code (Hex)	10 14 n m t
Name	Generate pulse at real-time
Command	ESC FF
Code (Hex)	1B 0C
Name	Print data in page mode

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Command	ESC SP n
Code (Hex)	1B 20 n
Name	Set right-side character spacing
Command	ESC ! n
Code (Hex)	1B 21 n
Name	Select print mode(s)
Command	ESC \$ nL nH
Code (Hex)	1B 24 nL nH
Name	Set absolute print position
Command	ESC % n
Code (Hex)	1B 25 n
Name	Select/cancel user-defined character set
Command	ESC * m nL nH d1...dk
Code (Hex)	1B 2A m nL nH d1...dk
Name	Select bit-image mode
Command	ESC – n
Code (Hex)	1B 2D n
Name	Turn underline mode on/off
Command	ESC 2
Code (Hex)	1B 32
Name	Select default line spacing
Command	ESC 3 n
Code (Hex)	1B 33 n
Name	Set line spacing
Command	ESC = n
Code (Hex)	1B 3D n
Name	Set peripheral device
Command	ESC ? n
Code (Hex)	1B 3F n
Name	Cancel user-defined characters

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Command	ESC @
Code (Hex)	1B 40
Name	Initialize printer
Command	ESC D n1...nk NUL
Code (Hex)	1B 44 n1 ...nk 00
Name	Set Horizontal tab positions
Command	ESC E n
Code (Hex)	1B 45 n
Name	Turn emphasized mode on/off
Command	ESC G n
Code (Hex)	1B 47 n
Name	Turn on/off double-strike mode
Command	ESC J n
Code (Hex)	1B 4A n
Name	Print and feed paper
Command	ESC L
Code (Hex)	1B 4C
Name	Select page mode
Command	ESC M n
Code (Hex)	1B 4D n
Name	Select character font
Command	ESC R n
Code (Hex)	1B 52 n
Name	Select an international character set
Command	ESC W xL xH yL yH dxL dxH dyL dyH
Code (Hex)	1B 57 xL xH yL yH dxL dxH dyL dyH
Name	Set printing area in page mode
Command	ESC \ nL nH
Code (Hex)	1B 5C nL nH
Name	Set relative print position

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Command	ESC a n
Code (Hex)	1B 61 n
Name	Select justification
Command	ESC c 3 n
Code (Hex)	1B 63 33 n
Name	Select paper sensors to output paper end signals
Command	ESC c 4 n
Code (Hex)	1B 63 34 n
Name	Select paper sensor(s)s to stop printing
Command	ESC c 5 n
Code (Hex)	1B 63 35 n
Name	Enable/disable panel buttons
Command	ESC d n
Code (Hex)	1B 64 n
Name	Print and feed n lines
Command	ESC p m t1 t2
Code (Hex)	1B 70 m t1 t2
Name	Generate pulse
Command	ESC t n
Code (Hex)	1B 74 n
Name	Select character code table
Command	ESC { n
Code (Hex)	1B 7B n
Name	Turns on/off upside-down printing mode
Command	FS p n m
Code (Hex)	1C 70 n m
Name	Print NV bit image
Command	GS ! n
Code (Hex)	1D 21 n
Name	Select character size

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Command	GS \$ nL nH
Code (Hex)	1D 24 nL nH
Name	Set absolute vertical print position in page mode
Command	GS * x y d1..d(x*y*8)
Code (Hex)	1D 2A
Name	Define downloaded bit image
Command	GS (A pL pH n m
Code (Hex)	1D 28 41
Name	Execute test print
Command	GS / m
Code (Hex)	1D 2F m
Name	Print downloaded bit image
Command	GS B n
Code (Hex)	1D 42 n
Name	Turn white/black reverse printing mode
Command	GS H n
Code (Hex)	1D 48 n
Name	Select printing position for HRI characters
Command	GS I n
Code (Hex)	1D 49 n
Name	Transmit printer ID
Command	GS L nL nH
Code (Hex)	1D 4C nL nH
Name	Set left margin
Command	GS P x y
Code (Hex)	1D 50 x y
Name	Set horizontal and vertical motion units
Command	GS W nL nH
Code (Hex)	1D 57 nL nH
Name	Set printing area width

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Command	GS \ nL nH
Code (Hex)	1D 5C nL nH
Name	Set relative vertical print position in page mode
Command	GS a n
Code (Hex)	1D 61 n
Name	Enable/disable automatic status back(ASB)
Command	GS b n
Code (Hex)	1D 62 n
Name	Turns smoothing mode on/off
Command	GS f n
Code (Hex)	1D 66 n
Name	Select font for Human Readable
Command	GS h n
Code (Hex)	1D 68 n
Name	Select bar code height
Command	①GS k m d1 dk NULL ②GS k m n d1 dn
Code (Hex)	1D 6B ①m d1 dk 00 ②m n d1 dn
Name	Print bar code
Command	GS r n
Code (Hex)	1D 72 n
Name	Transmit status
Command	GS v 0 m xL xH yL yH d1...dk
Code (Hex)	1D 76 30 m xL xH yL yH d1...dk
Name	Print raster bit image
Command	GS w n
Code (Hex)	1D 77
Name	Set bar code width
Command	FS ! n
Code (Hex)	1C 21 n
Name	Set print mode(s) for Kanji characters

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Command	FS &
Code (Hex)	1C 26
Name	Select Kanji character mode
Command	FS - n
Code (Hex)	1C 2D n
Name	Turn underline mode on/off for Kanji characters
Command	FS .
Code (Hex)	1C 2E
Name	Cancel Kanji character mode
Command	FS C n
Code (Hex)	1C 43 n
Name	Select Kanji character code system
Command	FS S n1 n2
Code (Hex)	1C 53 n1 n2
Name	Set left- and right-side Kanji character spacing
Command	FS W n
Code (Hex)	1C 57 n
Name	Turn quadruple-size mode on/off for Kanji characters
Command	FS q n [xL xH yL yH d1...dk]1...[xL xH yL yH
Code (Hex)	1C 71 n[xL xH yL yH d1...dk]1...[xL xH yL yH d1...dk]n
Name	Define NV bit image

8.2 Real-Time Status Transmission

1. Command Format

ASCII	DLE	EOT	n
Hex	10	04	
Decimal	16	4	

2. Command Description

Real time status transmission command “n” is described as follow.

n	Function
1	Transmit printer status
2	Transmit offline status
3	Transmit error status
4	Transmit roll paper sensor status
5	Transmit kiosk paper sensor status

3. Transmit printer status

Transmit printer status (n = 1) is described as follow

Bit	Content	Status	
		“0”	“1”
0	Fixed at “0”		
1	Fixed at “1”		
2	Drawer kick-out	Connector pin 3 is low	Connector pin 3 is high
3	Connection	Online	Offline
4	Fixed at “1”		
5	Online recovery	Not waiting for online recovery	Waiting for online recovery
6	Paper feed	Paper it not being fed by the paper feed button	Paper is being fed by the paper feed button
7	Fixed at “0”		

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4. Transmit offline status

Transmit offline status (n = 2) is described as follow

Bit	Content	Status	
		"0"	"1"
0	Fixed at "0"		
1	Fixed at "1"		
2	Printer cover	Closed	Open
3	Paper feed	Paper it not being fed by the paper feed button	Paper is being fed by the paper feed button
4	Fixed at "1"		
5	Printing stop	No paper-end stop	Printing stop due to a paper-end
6	Error	No error	Error occurred
7	Fixed at "0"		

5. Transmit error status

Transmit error status (n = 3) is described as follow

Bit	Content	Status	
		"0"	"1"
0	Fixed at "0"		
1	Fixed at "1"		
2	Recoverable error	No recoverable error	Recoverable error occurred
3	Auto-cutter error	No auto-cutter error	Auto-cutter error occurred
4	Fixed at "1"		
5	Unrecoverable error	No unrecoverable error	Unrecoverable error occurred
6	Auto-recoverable error	No auto-recoverable error	Auto-recoverable error occurred
7	Fixed at "0"		

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6. Transmit roll sensor status

Transmit roll sensor status (n = 4) is described as follow

Bit	Content	Status	
		"0"	"1"
0	Fixed at "0"		
1	Fixed at "1"		
2	Roll paper near end sensor	Paper adequate	Paper near end
3			
4	Fixed at "1"		
5	Roll paper end sensor	Paper present	Paper not present
6			
7	Fixed at "0"		

7. Transmit paper status

Transmit paper status (n = 5) is described as follow

Bit	Content	Status	
		"0"	"1"
0	Fixed at "0"		
1	Fixed at "1"		
2	Fixed at "0"		
3	Paper taken out	Paper taken out	Paper exist
4	Fixed at "1"		
5	Paper width	80mm	58mm
6	Fixed at "0"		
7	Fixed at "0"		

Transmit paper status example

Response (Hex)	Status
0x12	Paper taken out
	Paper width 80mm
0x1A	Paper exist
	Paper width 80mm
0x32	Paper taken out
	Paper width 58mm
0x3A	Paper exist
	Paper width 58mm

9. Character Code Tables

9.1 International Character sets

Country \ Hex	23	24	40	5B	5C	5D	5E	60	7B	7C	7D	7E
U.S.A	#	\$	@	[	\	]	^	`	{		}	~
France	#	\$	à	°	ç	§	^	`	é	ù	è	¨
Germany	#	\$	§	Ä	Ö	Ü	^	`	ä	ö	ü	ß
U.K	£	\$	@	[	\	]	^	`	{		}	~
Denmark I	#	\$	@	Æ	Ø	Å	^	`	æ	ø	å	~
Sweden	#	¤	É	Ä	Ö	Å	Ü	é	ä	ö	å	ü
Italy	#	\$	@	°	\	é	^	ù	à	ò	è	ì
Spain I	Pt	\$	@	i	Ñ	¿	^	`	¨	ñ	}	~
Japan	#	\$	@	[	¥	]	^	`	{		}	~
Norway	#	¤	É	Æ	Ø	Å	Ü	é	æ	ø	å	ü
Denmark II	#	\$	É	Æ	Ø	Å	Ü	é	æ	ø	å	ü
Spain II	#	\$	á	i	Ñ	¿	é	´	í	ñ	ó	ú
Korea	#	\$	@	[	₩	]	^	´	{		}	~

9.2 Characters: 00H to 7FH

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	NUL				EOT	ENQ				HT	LF		FF	CR		
10	DLE	XON		XOF	DC4				CAN			ESC	FS	GS		
20	<u>SP</u>	!	“	#	\$	%	&	‘	(	)	*	+	,	-	.	/
30	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
40	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
50	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_
60	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
70	p	q	r	s	t	u	v	w	x	y	z	{		}	~	<u>DEL</u>

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9.3 Code Page 0: PC437 (USA, European Standard)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Ç	ü	é	â	ä	à	å	ç	ê	ë	è	ï	î	ì	Ä	Å
90	É	æ	Æ	ô	ö	ò	û	ù	ÿ	Ö	Ü	ø	£	¥	Pt	f
A0	á	í	ó	ú	ñ	Ñ	ª	º	¿	¬	¬	½	¼	¡	«	»
B0					┌	┐	└	┘	┐	┌	└	┘	┐	┌	└	┘
C0	┐	┌	└	┘	┐	┌	└	┘	┐	┌	└	┘	┐	┌	└	┘
D0	┐	┌	└	┘	┐	┌	└	┘	┐	┌	└	┘	┐	┌	└	┘
E0	α	β	Γ	π	Σ	σ	μ	τ	Φ	θ	Ω	δ	∞	ø	ε	∩
F0	≡	±	≥	≤	∫	∫	÷	≈	°	•	·	√	n	²	■	<u>NBSP</u>

9.4 Code Page 1: Katakana (Japanese)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	ー	ー	ー	ー	ー	ー	ー	ー								+
90	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐
A0		。	「	」	、	・	ヲ	ア	イ	ウ	エ	オ	ヤ	コ	サ	ツ
B0	-	ア	イ	ウ	エ	オ	カ	キ	ク	ケ	コ	サ	シ	ス	セ	ソ
C0	タ	チ	ツ	テ	ト	ナ	ニ	ヌ	ネ	ノ	ハ	ヒ	フ	ヘ	ホ	マ
D0	ミ	ム	メ	モ	ヤ	ユ	ヨ	ラ	リ	ル	レ	ロ	ワ	ン	ゝ	°
E0	=	┐	┐	┐	┐	┐	┐	┐	♠	♥	♦	♣	●	○	/	\
F0	×	円	年	月	日	時	分	秒	〒	市	区	町	村	人		<u>NBSP</u>

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9.5 Code Page 2: PC850 (Multilingual)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Ç	ü	é	â	ä	à	å	ç	ê	ë	è	ï	î	ì	Ä	Å
90	É	æ	Æ	ô	ö	ò	û	ù	ÿ	ö	Ü	ø	£	Ø	×	f
A0	á	í	ó	ú	ñ	Ñ	a	o	¿	®	¬	½	¼	¡	«	»
B0	▒	▒	▒		┐	Á	Â	À	©	¶		¶	¶	¢	¥	¬
C0	L	┐	┐	┐	—	┐	ã	Ã	ℒ	ℒ	ℒ	ℒ	ℒ	=	ℒ	α
D0	ø	Ð	Ê	Ë	È	Ì	Í	Î	Ï	Ɔ	Ɔ	■	■	!	!	■
E0	ó	ß	ô	ò	õ	Õ	μ	þ	Þ	Ú	Û	Ù	ý	Ý	—	,
F0	—	±	=	¾	¶	§	÷	,	°	..	·	1	3	2	■	<u>NBSP</u>

9.6 Code Page 3: PC860 (Portuguese)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Ç	ü	é	â	ã	à	Á	ç	ê	Ê	è	í	Ô	ì	Ã	Â
90	É	À	È	ô	õ	ò	Ú	ù	ì	Õ	Ü	¢	£	Ù	Pt	Ó
A0	á	í	ó	ú	ñ	Ñ	a	o	¿	®	¬	½	¼	¡	«	»
B0	▒	▒	▒		┐	¶	¶	π	¶	¶		¶	¶	¶	¶	¬
C0	L	┐	┐	┐	—	┐	¶		ℒ	ℒ	ℒ	ℒ	ℒ	=	ℒ	ℒ
D0	ℒ	ℒ	π	ℒ	ℒ	ℒ	π		¶	Ɔ	ℒ	■	■	■	■	■
E0	α	β	Γ	π	Σ	σ	μ	τ	Φ	θ	Ω	δ	∞	ø	ε	∩
F0	≡	±	≥	≤	∫	∫	÷	≈	°	•	·	√	n	2	■	<u>NBSP</u>

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9.7 Code Page 4: PC863 (Canadian-French)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Ç	ü	é	â	Â	à	¶	ç	ê	ë	è	ï	î	=	Ä	§
90	É	È	Ê	ô	Ë	ï	û	ù	æ	Ô	Ü	ø	£	Ù	Û	f
A0		'	ó	ú	¨	,	³	¬	î	¬	¬	½	¼	¾	«	»
B0	▒	▒	▒		└	┐	┌	┐	┐	┐	┐	┐	┐	┐	┐	┐
C0	L	└	┐	└	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐
D0	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐	▀	▀	▀	▀	▀
E0	α	β	Γ	Π	Σ	σ	μ	τ	Φ	θ	Ω	δ	∞	ø	ε	∩
F0	≡	±	≥	≤	∫	∫	÷	≈	°	•	·	√	n	²	■	<u>NBSP</u>

9.8 Code Page 5: PC865 (Nordic)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Ç	ü	é	â	ä	à	å	ç	ê	ë	è	ï	î	ì	Ä	Å
90	É	æ	Æ	ô	ö	ò	û	ù	ÿ	Ö	Ü	ø	£	Ø	Pt	f
A0	á	í	ó	ú	ñ	Ñ	ª	º	¿	¬	¬	½	¼	¿	«	»
B0	▒	▒	▒		└	┐	┌	┐	┐	┐	┐	┐	┐	┐	┐	┐
C0	L	└	┐	└	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐
D0	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐	▀	▀	▀	▀	▀
E0	α	β	Γ	Π	Σ	σ	μ	τ	Φ	θ	Ω	δ	∞	ø	ε	∩
F0	≡	±	≥	≤	∫	∫	÷	≈	°	•	·	√	n	²	■	<u>NBSP</u>

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9.9 Code Page 6: PC851 (Greek)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Ç	ü	é	â	ä	à	À	ç	ê	ë	è	ï	î	É	Ä	Ḥ
90	ı		Ó	ô	ö	Υ	û	ù	Ω	Ö	Ü	ά	£	έ	ή	ί
A0	İ	Î	ó	ú	Α	Β	Γ6	Δ	Ε	Ζ	Η	½	Θ	Ι3	«	»
B0					†	Κ	Λ	Μ	Ν	¶		¶	¶	≡	Ο	Γ
C0	Ł	⊥	⊥	†	—	†	Π	Ρ	ℒ	℞	⊥	⊥	⊥	=	⊥	Σ
D0	Τ	Υ	Φ	Χ	Ψ	Ω	α	β	γ	Ј	Г			δ	ε	
E0	ζ	η	θ	ι	κ	λ	μ	ν	ξ	ο	π	ρ	σ	ς	τ	'
F0	-	±	υ	φ	χ	§	ψ	ˆ	°	ˆ	ω	ü	Û	ώ		<u>NBSP</u>

9.10 Code Page 7: PC853 (Turkish)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Ç	ü	é	â	ä	à	â	ç	ê	ë	è	ï	î	ı	Ä	Ĉ
90	É	ć	Ĉ	ô	ö	ò	û	ù	ı	Ö	Ü	ĝ	£	Ĝ	×	ĵ
A0	á	í	ó	ú	ñ	Ñ	Ğ	ğ	Ĥ	ĥ		½	Ĵ	ş	«	»
B0					†	Á	Â	À	Ş	¶		¶	¶	Ž	ž	Γ
C0	Ł	⊥	⊥	†	—	†	Ŝ	ŝ	ℒ	℞	⊥	⊥	⊥	=	⊥	α
D0			Ê	Ë	È	ı	í	î	ï	Ј	Г				ì	
E0	Ó	ß	Ô	Ò	Ġ	ğ	μ	℥	ħ	Ú	Û	Ù	Ŭ	ŭ	.	'
F0	-		ł	ˆ	ˆ	§	÷	,	°	ˆ	.		3	2		<u>NBSP</u>

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9.11 Code Page 8: PC857 (Turkish)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Ç	ü	é	â	ä	à	å	ç	ê	ë	è	ï	î	ı	Ä	Å
90	É	æ	Æ	ô	ö	ò	û	ù	ì	Ö	Ü	ø	£	Ø	Ş	ş
A0	á	í	ó	ú	ñ	Ñ	Ğ	ğ	ı	®	¬	½	¼	ı	«	»
B0	▒	▒	▒		┐	Á	Â	À	©	¶	¶	¶	¶	¢	¥	¬
C0	L	┐	┐	┐	—	┐	ã	Ã	ℒ	ℒ	ℒ	ℒ	ℒ	=	ℒ	α
D0	◊	◊	Ê	Ë	È		Í	Î	Ï	┐	┐	■	■	ı	ı	■
E0	Ó	ß	Ô	Ò	õ	Õ	μ		×	Ú	Û	Ù	ì	ÿ	—	'
F0	-	±		¾	¶	§	÷	,	°	¨	.	1	3	2	■	<u>NBSP</u>

9.12 Code Page 9: PC737 (Greek)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	A	B	Γ	Δ	E	Z	H	Θ	I	K	Λ	M	N	Ξ	O	Π
90	P	Σ	T	Υ	Φ	X	Ψ	Ω	α	β	γ	δ	ε	ζ	η	θ
A0	ι	κ	λ	μ	ν	ξ	ο	π	ρ	σ	ς	τ	υ	φ	χ	ψ
B0	▒	▒	▒		┐	┐	┐	π	¶	¶	¶	¶	¶	¶	¶	┐
C0	L	┐	┐	┐	—	┐	┐	┐	ℒ	ℒ	ℒ	ℒ	ℒ	=	ℒ	ℒ
D0	ℒ	ℒ	π	ℒ	ℒ	ℒ	π	ℒ	ℒ	┐	┐	■	■	■	■	■
E0	ω	ά	έ	ή	ϊ	ί	ό	ύ	ϋ	ώ	Α	Ε	Η	1	Ο	Υ
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9.13 Code Page 10: ISO8859-7 (Greek)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
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B0	°	±	²	³	´	µ	À	·	Έ	Ή	Ί	»	Ό	½	Υ	Ω
C0	ΐ	Α	Β	Γ	Δ	Ε	Ζ	Η	Θ	Ι	Κ	Λ	Μ	Ν	Ξ	Ο
D0	Π	Ρ		Σ	Τ	Υ	Φ	Χ	Ψ	Ω	Ϊ	Ϋ	ά	έ	ή	ί
E0	Û	α	β	γ	δ	ε	ζ	η	θ	ι	κ	λ	μ	ν	ξ	ο
F0	π	ρ	ς	σ	τ	υ	φ	χ	ψ	ω	ϊ	ϋ	ό	ύ	ώ	

9.14 Code Page 11: WPC1252 (Windows Latin 1)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
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90		‘	’	“	”	•	—	—	~	™	š	›	œ		ž	ÿ
A0	<u>NBSP</u>	ı	ç	£	¤	¥	¦	§	¨	©	ª	«	¬	-	®	¯
B0	°	±	²	³	´	µ	¶	·	,	¹	º	»	¼	½	¾	¿
C0	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
D0	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß
E0	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
F0	ð	ñ	ò	ó	ô	õ	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ

9.15 Code Page 12: PC866 (Russian)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	А	Б	В	Г	Д	Е	Ж	З	И	Й	К	Л	М	Н	О	П
90	Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ	Ъ	Ы	Ь	Э	Ю	Я
A0	а	б	в	г	д	е	ж	з	и	й	к	л	м	н	о	п
B0					┌	┐	└	┘	┌	┐	└	┘	┌	┐	└	┘
C0	Л	└	┐	┌	─	└	┐	└	┐	└	┐	└	┐	─	└	┐
D0	└	┐	└	┐	└	┐	└	┐	└	┐	└	┐	└	┐	└	┐
E0	р	с	т	у	ф	х	ц	ч	ш	щ	ъ	ы	ь	э	ю	я
F0	Ё	ё	Є	е	Ї	ї	Ў	ў	°	•	·	√	№	¤	■	<u>NBSP</u>

9.16 Code Page 13: PC852 (Slavonic)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	
80	Ç	ű	é	â	ä	ű	ć	ç	ł	ë	Ő	ő	î	Ž	Ä	Ć	
90	É	Í	í	ô	ö	Ł	ł	Ś	ś	Ö	Ü	Ť	ť	Ł	x	Č	
A0	á	í	ó	ú	À	à	Ž	ž	Ę	ę	¬	ž	Č	š	«	»	
B0					┌	Á	Â	Ě	Š	Ť	└	┘	└	┘	└	┘	
C0	Л	└	┐	┌	─	└	Ä	ä	└	┐	└	┐	└	┐	─	└	┐
D0	ď	Đ	Ď	Ě	ď	Ň	í	î	ě	└	┐	■	■	└	┐	■	
E0	Ó	ß	Ô	Ó	ń	ň	Š	š	Ř	Ú	ř	Ů	ý	Ý	ť	´	
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9.17 Code Page 14: PC858 (Multilingual with Euro Symbol)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	Ç	ü	é	â	ä	à	å	ç	ê	ë	è	ï	î	ì	Ä	Å
90	É	æ	Æ	ô	ö	ò	û	ù	ÿ	ö	Ü	ø	£	Ø	×	f
A0	á	í	ó	ú	ñ	Ñ	a	o	¿	®	¬	½	¼	¡	«	»
B0	⌘	⌘	⌘		┘	Á	Â	À	©	¶	¶	¶	¶	¢	¥	¬
C0	L	┘	┘	┘	—	┘	ã	Ã	ℒ	ℒ	ℒ	ℒ	ℒ	=	ℒ	¤
D0	ð	Ð	Ê	Ë	È	€	í	î	ï	┘	┘	■	■	¡	ì	■
E0	ó	ß	ô	ò	õ	Õ	μ	þ	þ	Ú	Û	Ù	ý	Ý	—	,
F0	—	±	=	¾	¶	§	÷	,	°	..	·	1	3	2	■	<u>NBSP</u>

9.18 Code Page 15: KU42 (Thai)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
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A0	<u>NBSP</u>	ก	ข	ค	ฆ	ง	จ	ฉ	ช	ซ	ฌ	ญ	ฎ	ฏ	ฐ	ฑ
B0	ฒ	ณ	ด	ต	ถ	ท	ธ	น	บ	ป	ผ	ฝ	พ	ฟ	ภ	ม
C0	ย	ร	ฤ	ล	ว	ศ	ษ	ส	ห	ฬ	อ	ฮ	ะ	ภ	า	ำ
D0	เ	แ	โ	ใ	ไ	ๆ	ๆ	ๆ	ๆ	ๆ	ๆ	ๆ	ๆ	ๆ	ๆ	ๆ
E0	ิ	ุ	ู	+	ิ	ุ	ุ	ุ	ุ	ุ	ุ	ุ	ุ	ุ	ุ	ุ
F0	ุ	ุ	ุ	ุ	ุ	ุ	ุ	ุ	ุ	ุ	ุ	ุ	ุ	ุ	ุ	<u>NBSP</u>

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9.19 Code Page 16: TIS11 (Thai)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑	๒	๓	๔	๕	๖
90	๗	๘	๙	๐	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑	๒
A0	ค	ก	ข	ฅ	ค	ค	ฅ	ง	จ	ฉ	ช	ซ	ฅ	ญ	ฎ	ฏ
B0	ฐ	ท	ฒ	ณ	ด	ต	ถ	ท	ธ	น	บ	ป	ผ	ฝ	พ	ฟ
C0	ภ	ม	ย	ร	ฤ	ล	ภ	ว	ศ	ษ	ส	ห	ฬ	อ	ฮ	ฯ
D0	ะ	ั	า	ำ	ิ	ี	ึ	ุ	ิ	ุ	ิ	ุ	ิ	ุ	ิ	ุ
E0	เ	แ	โ	ใ	ไ	า	า	อ	ิ	ุ	ิ	ุ	ิ	ุ	ิ	ุ
F0	อ	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑	๒	๓	๔	๕

9.20 Code Page 17: TIS13 (Thai)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80		๑	๒	๓	๔		๖	๗	๘	๙		๑	๒	๓	๔	๖
90	๗	๘	๙	๐		๑	๒	๓	๔		๑	๒	๓	๔		
A0	NBSP	ก	ข	ฅ	ค	ค	ฅ	ง	จ	ฉ	ช	ซ	ฅ	ญ	ฎ	ฏ
B0	ฐ	ท	ฒ	ณ	ด	ต	ถ	ท	ธ	น	บ	ป	ผ	ฝ	พ	ฟ
C0	ภ	ม	ย	ร	ฤ	ล	ภ	ว	ศ	ษ	ส	ห	ฬ	อ	ฮ	ฯ
D0	ะ	ั	า	ำ	ิ	ี	ึ	ุ	ิ	ุ	ิ	ุ	ิ	ุ	ิ	ุ
E0	เ	แ	โ	ใ	ไ	า	า	อ	ิ	ุ	ิ	ุ	ิ	ุ	ิ	ุ
F0	อ	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑	๒	๓	๔	๕

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9.21 Code Page 18: TIS14 (Thai)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
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90	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊
A0	<u>NBSP</u>	ก	ข	ฃ	ค	ค	ฅ	ง	จ	ฉ	ช	ซ	ฌ	ญ	ฎ	ฏ
B0	ฐ	ฑ	ฒ	ณ	ด	ต	ถ	ท	ธ	น	บ	ป	ผ	ฝ	พ	ฟ
C0	ภ	ม	ย	ร	ฤ	ล	ภ	ว	ศ	ษ	ส	ห	ฬ	อ	ฮ	ฯ
D0	ะ	ั	า	ำ	ิ	ี	ึ	ุ	เ	อ	๑	๒	๓	๔	๕	๖
E0	๗	๘	๙	๐	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑	๒
F0	๓	๔	๕	๖	๗	๘	๙	๐	๑	๒	๓	๔	๕	๖	๗	๘

9.22 Code Page 19: TIS16 (Thai)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
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90	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊
A0	<u>NBSP</u>	ก	ข	ฃ	ค	ค	ฅ	ง	จ	ฉ	ช	ซ	ฌ	ญ	ฎ	ฏ
B0	ฐ	ฑ	ฒ	ณ	ด	ต	ถ	ท	ธ	น	บ	ป	ผ	ฝ	พ	ฟ
C0	ภ	ม	ย	ร	ฤ	ล	ภ	ว	ศ	ษ	ส	ห	ฬ	อ	ฮ	ฯ
D0	ะ	ั	า	ำ	ิ	ี	ึ	ุ	เ	อ	๑	๒	๓	๔	๕	๖
E0	๗	๘	๙	๐	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑	๒
F0	๓	๔	๕	๖	๗	๘	๙	๐	๑	๒	๓	๔	๕	๖	๗	<u>NBSP</u>

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9.23 Code Page 20: TIS17 (Thai)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
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90	๗	๘	๙	๐	๑		—	+	┐	┌	L	J	└	┘	┐	┌
A0	<u>NBSP</u>	ก	ข	ฃ	ค	ฅ	ฆ	ง	จ	ฉ	ช	ฌ	ญ	ฎ	ฏ	ฐ
B0	ฑ	ท	ฒ	ณ	ด	ต	ถ	ท	ธ	น	บ	ป	ผ	ฝ	พ	ฟ
C0	ภ	ม	ย	ร	ฤ	ล	ภ	ว	ศ	ษ	ส	ห	ฬ	อ	ฮ	ฯ
D0	ะ	ั	า	ำ	ิ	ี	ึ	ุ	ิ	ุ	ิ	ุ	ิ	ุ	ิ	ุ
E0	เ	แ	โ	ใ	ไ	า	ๆ	๐	๑	๒	๓	๔	๕	๖	๗	๘
F0	๐	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑	๒	๓	๔	๕

9.24 Code Page 21: TIS18 (Thai)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
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A0	<u>NBSP</u>	ก	ข	ฃ	ค	ฅ	ฆ	ง	จ	ฉ	ช	ฌ	ญ	ฎ	ฏ	ฐ
B0	ฑ	ท	ฒ	ณ	ด	ต	ถ	ท	ธ	น	บ	ป	ผ	ฝ	พ	ฟ
C0	ภ	ม	ย	ร	ฤ	ล	ภ	ว	ศ	ษ	ส	ห	ฬ	อ	ฮ	ฯ
D0	ะ	ั	า	ำ	ิ	ี	ึ	ุ	ิ	ุ	ิ	ุ	ิ	ุ	ิ	ุ
E0	เ	แ	โ	ใ	ไ	า	ๆ	๐	๑	๒	๓	๔	๕	๖	๗	๘
F0	๐	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑	๒	๓	๔	<u>NBSP</u>

9.25 Code Page 22: TCVN-3 (Vietnamese)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
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A0									ă	â	ê	ô	ơ	ư	đ	
B0						à	ả	ã	á	ạ		ằ	ẳ	ẵ	ắ	
C0							ặ	ằ	ẳ	ẵ	ắ	ậ	ề		ẻ	ẽ
D0	é	ẹ	ề	ẻ	ẽ	ế	ệ	ì	ỉ				ĩ	í	ị	ò
E0		ỏ	õ	ó	ọ	ồ	ở	ỗ	ố	ộ	ờ	ở	ỡ	ớ	ợ	ù
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9.26 Code Page 23: TCVN-3 (Vietnamese)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
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90																
A0		Ă	Â					Đ			Ê	Ô	Ơ	Ư		
B0						À	Ả	Ã	Á	Ạ		Ầ	Ẳ	Ẵ	Ắ	
C0							Ặ	Ằ	Ẳ	Ẵ	Ắ	Ậ	Ề		Ễ	Ẽ
D0	É	Ẹ	Ề	Ễ	Ẽ	Ế	Ệ	Ì	Ỉ				Ĩ	Í	Ị	Ò
E0		Ỏ	Õ	Ó	Ọ	Ồ	Ở	Ỗ	Ố	Ộ	Ờ	Ở	Ỡ	Ớ	Ợ	Ù
F0		Ủ	Ũ	Ú	Ụ	Ừ	Ữ	Ử	Ứ	Ự	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	<u>NBSP</u>

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9.27 Code Page 24: PC720 (Arabic)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80			é	â		à		ç	ê	ë	è	ï	î			
90		¸	°	ô	¸	-	û	ù	ء	آ	أ	ؤ	£	إ	ئ	ا
A0	ب	ة	ت	ث	ج	ح	خ	د	ذ	ر	ز	س	ش	ص	«	»
B0	⋮	⋮	⋮		┌	┐	└	┘	┙	┚	┛	├	┤	┥	┦	┧
C0	L	┐	└	┌	─	┐	└	┘	┙	┚	┛	├	┤	┥	┦	┧
D0	┐	└	└	┐	┐	┐	┐	┐	┐	┐	┐	■	■	■	■	■
E0	ض	ط	ظ	ع	غ	ف	μ	ق	ك	ل	م	ن	ه	و	ى	ي
F0	≡							≈	°	.	.	√	n	2	■	<u>NBSP</u>

9.28 Code Page 25: PC775 (Baltic)

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90	É	æ	Æ	ō	ö	Ģ	č	Š	ś	Ö	Ü	ø	£	Ø	×	¸
A0	Ā	Ī	ó	Ž	ž	ž	”		©	®	¬	½	¼	Ł	«	»
B0	⋮	⋮	⋮		┌	┐	└	┘	┙	┚	┛	├	┤	┥	┦	┧
C0	L	┐	└	┌	─	┐	└	┘	┙	┚	┛	├	┤	┥	┦	┧
D0	ą	č	ę	è	ì	š	ų	ū	ž	┐	└	■	■	■	■	■
E0	Ó	ß	Ō	Ń	õ	Õ	μ	ń	Ų	ķ	Ł	Į	ŋ	Ē	Ņ	'
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9.29 Code Page 26: PC855 (Cyrillic)

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90	љ	Љ	њ	Њ	ћ	Ћ	ќ	Ќ	џ	Џ	џ	џ	ю	Ю	ъ	Ъ
A0	а	А	б	Б	ц	Ц	д	Д	е	Е	ф	Ф	г	Г	«	»
B0	▒	▒	▒		┐	х	Х	и	И	џ		т	Љ	й	Й	г
C0	Л	┐	т	┐	—	┐	к	К	ℒ	т	┐	т	т	т	т	т
D0	л	Л	м	М	н	Н	о	О	п	п	г	■	■	П	я	■
E0	Я	р	Р	с	С	т	Т	у	У	ж	Ж	в	В	ь	Ь	№
F0	-	ы	Ы	з	З	ш	Ш	э	Э	щ	Щ	ч	Ч	§	■	<u>NBSP</u>

9.30 Code Page 27: PC861 (Iceland)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	ç	ü	é	â	ä	à	å	ç	ê	ë	è	Ð	ð	Þ	Ä	Å
90	É	æ	Æ	ô	ö	þ	û	Ý	ý	Ö	Ü	ø	£	Ø	Þ	f
A0	á	í	ó	ú	Á	Í	Ó	Ú	ı	ı	ı	½	¼	ı	«	»
B0	▒	▒	▒		┐	┐	┐	т	т	т		т	т	т	т	т
C0	Л	┐	т	┐	—	┐	т	т	ℒ	т	┐	т	т	т	т	т
D0	т	т	т	т	т	т	т	т	т	т	г	■	■	■	■	■
E0	α	β	Γ	π	Σ	σ	μ	τ	Φ	Θ	Ω	δ	∞	φ	€	∩
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9.31 Code Page 28: PC862 (Hebrew)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	א	ב	ג	ד	ה	ו	ז	ח	ט	י	ך	כ	ל	מ	נ	ס
90	ע	פ	צ	ק	ר	ש	ת	ף	£	¥	Pt	f				
A0	á	í	ó	ú	ñ	Ñ	ª	º	¿	¬	¬	½	¼	¡	«	»
B0	⌘	⌘	⌘		⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘
C0	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘
D0	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘
E0	α	β	Γ	π	Σ	σ	μ	τ	Φ	θ	Ω	δ	∞	∅	ε	∩
F0	≡	±	≥	≤	∫	∫	÷	≈	°	•	•	√	n	²	■	<u>NBSP</u>

9.32 Code Page 29: PC864 (Arabic)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
80	°	•	•	√	⌘	—		+	+	+	+	+	+	+	+	+
90	β	∞	φ	±	½	¼	≈	«	»	لأ	لأ			لا	لا	ـ
A0		-	آ	£	¤	أ		€	ا	ب	ت	ث	،	ج	ح	خ
B0	•	١	٢	٣	٤	٥	٦	٧	٨	٩	ف	؛	س	ش	ص	؟
C0	¢	ء	آ	أ	ؤ	ع	ئ	ا	ب	ة	ت	ث	ج	ح	خ	د
D0	ذ	ر	ز	س	ش	ص	ض	ط	ظ	ع	غ	ا	ب	÷	×	ع
E0	-	ف	ق	ك	ل	م	ن	ه	و	ي	ي	ض	ع	غ	غ	م
F0	ـ	ـ	ن	ه	ه	ي	ي	غ	ق	لأ	لأ	ل	ك	ي	■	<u>NBSP</u>

9.33 Code Page 30: PC869 (Greek)

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D0	Τ	Υ	Φ	Χ	Ψ	Ω	α	β	γ	⌋	⌈	■	■	δ	ε	■
E0	ζ	η	θ	ι	κ	λ	μ	ν	ξ	ο	π	ρ	σ	ς	τ	'
F0	-	±	Υ	Φ	Χ	§	Ψ	ˆ	°	ˆ	Ω	ÿ	ÿ	Ω	■	<u>NBSP</u>

9.34 Code Page 31: ISO8859-2 (Central European)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
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C0	Ř	Á	Â	Ă	Ä	Í	Ć	Ç	Č	É	Ę	Ě	Ě	Í	Î	Ď
D0	Đ	Ń	Ň	Ó	Ô	Õ	Ö	×	Ř	Ú	Ú	Ů	Ü	Ý	Ť	ß
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9.35 Code Page 32: ISO8859-15 (Latin 9)

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C0	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
D0	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß
E0	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
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9.36 Code Page 33: PC1098 (Farsi)

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A0	ح	خ	خ	د	ذ	ر	ز	ژ	س	س	ش	ش	ص	ص	«	»
B0	۰	۱	۲	۳	۴	۵	۶	۷	۸	۹	۰	۱	۲	۳	۴	۵
C0	۶	۷	۸	۹	۰	۱	۲	۳	۴	۵	۶	۷	۸	۹	۰	۱
D0	ع	ع	ع	غ	غ	غ	غ	ف	ف	ل	ر	■	■	ق	ق	■
E0	ک	ک	گ	گ	ل	ل	م	م	ن	ن	و	ه	ه	ه	ه	ی
F0	-	ی	ی	-	ه	۱	۲	۳	۴	۵	۶	۷	۸	۹	■	

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9.37 Code Page 34: PC1118 (Lithuanian)

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A0	á	í	ó	ú	ñ	Ñ	ª	º	¿	¬	¬	½	¼	¡	«	»
B0	▒	▒	▒		†	À	Č	£	È	¶	¶	¶	¶	¶	Š	Œ
C0	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ž
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9.38 Code Page 35: PC1119 (Lithuanian)

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90	Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ	Ъ	Ы	Ь	Э	Ю	Я
A0	a	б	в	г	д	е	ж	з	и	й	к	л	м	н	о	п
B0	▒	▒	▒		†	À	Č	£	È	¶	¶	¶	¶	¶	Š	Œ
C0	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ž
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9.39 Code Page 36: PC1125 (Ukrainian)

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A0	а	б	в	г	д	е	ж	з	и	й	к	л	м	н	о	п
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C0	␣	␣	␣	␣	␣	␣	␣	␣	␣	␣	␣	␣	␣	␣	␣	␣
D0	␣	␣	␣	␣	␣	␣	␣	␣	␣	␣	␣	■	■	■	■	■
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9.40 Code Page 37: WPC1250 (Central European)

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9.41 Code Page 38: WPC1251 (Cyrillic)

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C0	А	Б	В	Г	Д	Е	Ж	З	И	Й	К	Л	М	Н	О	П
D0	Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ	Ъ	Ы	Ь	Э	Ю	Я
E0	а	б	в	г	д	е	ж	з	и	й	к	л	м	н	о	п
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9.42 Code Page 39: WPC1253 (Greek)

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D0	Π	Ρ		Σ	Τ	Υ	Φ	Χ	Ψ	Ω	Ϊ	Ϋ	ά	έ	ή	ί
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9.43 Code Page 40: WPC1254 (Turkish)

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9.44 Code Page 41: WPC1255 (Hebrew)

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9.45 Code Page 42: WPC1256 (Arabic)

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D0	ذ	ر	ز	س	ش	ص	ض	×	ط	ظ	ع	غ	-	ف	ق	ك
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9.46 Code Page 43: WPC1257 (Baltic)

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9.47 Code Page 44: WPC1258 (Vietnamese)

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D0	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	~	ß
E0	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
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9.48 Code Page 45: KZ1048 (Kazakhstan)

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B0	°	±	І	і	е	µ	¶	·	ё	№	Ғ	»	ө	Ғ	Ғ	Ү
C0	А	Б	В	Г	Д	Е	Ж	З	И	Й	К	Л	М	Н	О	П
D0	Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ	Ъ	Ы	Ь	Э	Ю	Я
E0	а	б	в	г	д	е	ж	з	и	й	к	л	м	н	о	п
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10. External Dimensions

