CX-1 Micro panel printer User Manual



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1 General Specifications

ITEM	SPECIFICATION
Print method	thermal direct line printing
Paper loading method	easy paper loading
Paper width	57mm
Print width	48mm
Resolution ration	8dots/mm(384dots/line)
Life of printing head	50km
Printing speed	50mm/sec.; Max.:80MM/sec.(voltage 8.5V)
Character size	9x17,12×24
Chinese character fonts	GB18030: 12x24 or 24x24dots
Outline dimension	76.8 Wx77.4Dx47.6H mm
Installation:	72.8Wx73.4D mm
Embedded depth	34.65 mm
Paper roll specification	(width: 58mm, Max. diameter: 40mm)
Interface	Serial(RS232C,TTL)/ USB
Input power	DC5-9V or 12V
Operating temperature	0°C~55°C
Storage temperature	-25°C~70°C
Operating humidity	10°C~80°C
Storage humidity	10°C~90°C

2. Features

- λ Low-noise direct thermal printing method
- λ Fast printing speed, low noise
- λ Can support Max.40MM (diameter) paper roll, around 16-20 meter.
- λ Optional serial interface (RS-232C, TTL) / USB port
- λ Rich of graphics / curves / characters print function
- λ Easy paper loading structure.
- λ Support 5V-9V wide power voltage, or 12V DC.

3 Printer outline pictures and dimension

3.1 Outline pictures



 $\begin{array}{lll} \lambda & \text{Outline dimension: } 76.8Wx77.4Dx47.6H \text{ mm} \\ \lambda & \text{Embedded dimension: } 72.8Wx73.4Dx34.65H \text{ mm} \end{array}$

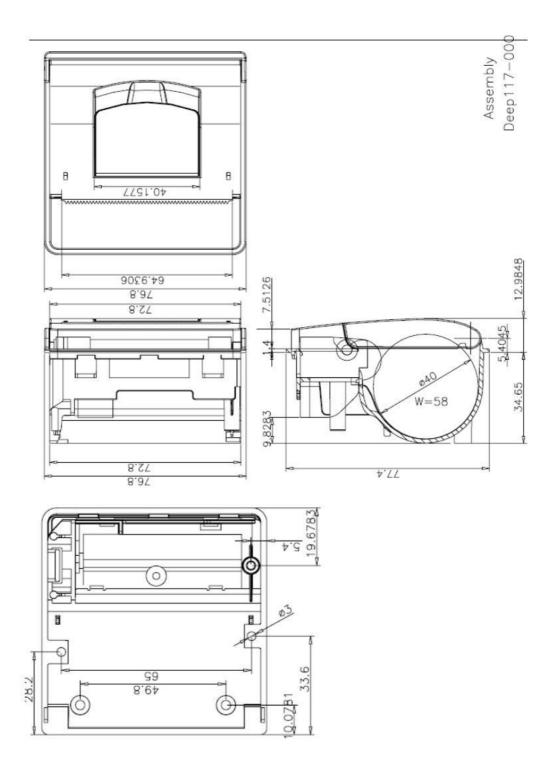
 λ Front panel Size: 76.8Wx77.4D mm

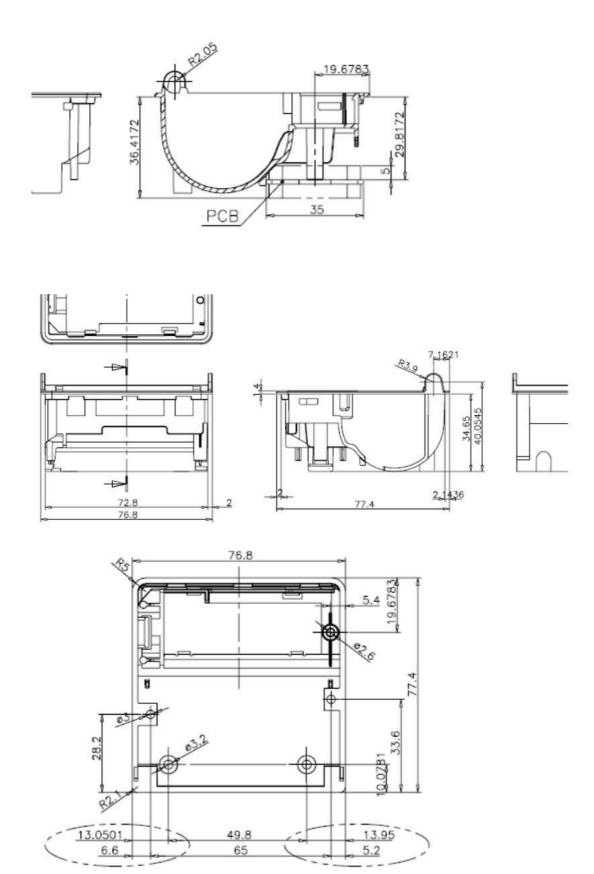
 λ Embedded depth: 34.65 mm

 λ Max diameter of paper roll: 40 mm

3.2 Dimension

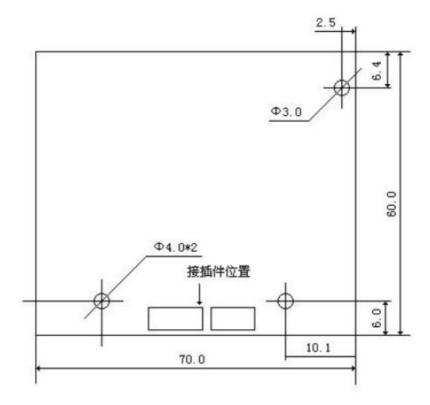
Outline is as follows:





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The installation method as below picture:



4 How to use

4.1 Printing test

After power up, press K1 button, or connect J1 and disconnect on the controller board, one test page will be printed.

Note: The name of short-circuit point is different from each board.

4.2 Panel LED Indicators

There is one LED on board to indicate the status of the board. The indicator is as follows:

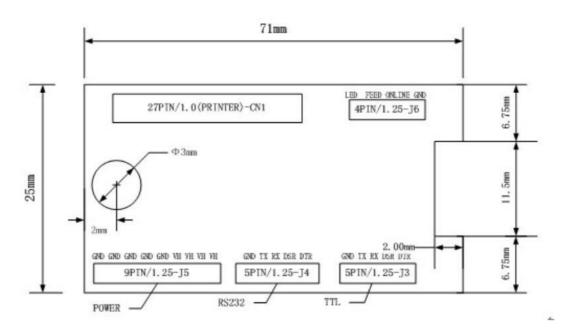
- λ Blink one times: Work well
- λ Blink two times: No printer is detected
- λ Blink three times: No paper is detected
- λ Blink five times: Printer mechanism is overheating.
- λ Blink ten times: No Chinese word stock IC is detected

5 Connector

Please refer to chart printing control board size and interface definition.

You can choose to use RS232, RS232 with TTL level or USB port before leaving factory. RS232 with TTL level can get less cost.

5.1 Serial (RS232, TTL)



5.1.1 Power supply connector

J5 User side matching conne	
Molex, 53047 Series 9 contacts (male)	Molex 51021 Series (female)
	Contacts: 50079/50058

Pin number	Signal name	Pin number	Signal name
1	GND	6	V bat
2	GND	7	V bat
3	GND	8	V bat
4	GND	9	V bat
72	5	GND	×

5.1.2 RS232 connector

J4	User side matching connector
Molex, 53047 Series 5 contacts (male)	Molex 51021 Series (female)
	Contacts: 50079/50058

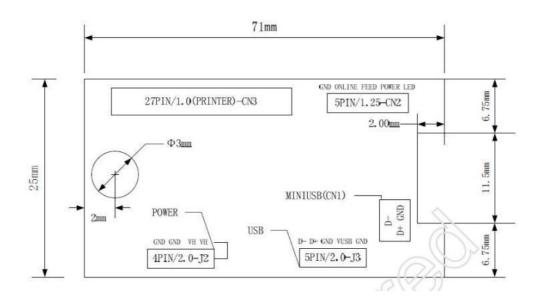
Pin number	Signal name
1	GND
2	Transmit data(Txd, printer output)
3	Receive data(Rxd, printer input)
4	CTS/DSR(printer input)
5	RTS/DTR(printer output)

5.1.3 TTL connector

J3 User side matching co	
Molex, 53047 Series 5 contacts (male)	Molex 51021 Series (female)
	Contacts: 50079/50058

Pin number	Signal name
1	GND
2	Transmit data(Txd, printer output)
3	Receive data(Rxd, printer input)
4	CTS/DSR(printer input)
5	RTS/DTR(printer output)

5.2 USB port



5.2.1 J2 Power supply connector

Pin number	Signal name
1	GND
2	GND
3	V bat
4	V bat

5.2.2 CN3 USB /MINID connector

Pin number	Signal name
1	VUSB
2	D-
3	D+
4	NC

5	GND

6 printer functions

CN1/CN3	FPC27/1.0
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Pin number	Signal name	Function
1	СО	Collector of photo-transistor
2	VF	Anode of photo-sensor
3	L_GND	Gnd for logic
4	VH	Dotline voltage
5	VH	Dotline voltage
6	DI	Data input
7	STB6	Sixth strobe
8	STB5	Fifth strobe
9	STB4	Fourth strobe
10	P_GND	Gnd for logic
11	P_GND	Gnd for dotline
12	P_GND	Gnd for dotline
13	P_GND	Gnd for dotline
14	TM	Thermistor first terminal(second in Gnd)
15	STB3	Third strobe
16	STB2	Second strobe
17	STB1	First strobe
18	Vdd	Logic voltage
19	CLK	Serial clock
20	\LTA	Latch
21	DO	Data output
22	VH	Dotline voltage
23	VH	Dotline voltage
24	SM4	Fourth phase of stepper motor
25	SM3	Third phase of stepper motor
26	SM2	Second phase of stepper motor
27	SM1	First phase of stepper motor

7 Using attention

- 7.1 Please notice, the ESD wrist ring and the humidity manufactures ETC, when using the printer, to protect the inner electronic parts of the printer from the damage of ESD, because the TPH of the Printer and photoelectric sensor are ESD Sensitive parts.
- 7.2 For protecting plastic shaft, don't smear any oil or others on the rubber parts.

- 7.3 Don't touch the TPH, TPH having the palm oil, will induce the usage of the printer. If any oil or others in the TPH, pls using alcohol cotton stick clean the area between plastic shaft and printer head at once.PS, don't strike the TPH.
- 7.4 Due to the printer is easy-paper structure, you need pick up the rubber stick only push the rubber stick. So, if the paper jam, push harder will cause the rubber stick gearwheel damaged. So pls don't push the paper harder, pls do open the cover and re-fill the paper
- 7.5 The temperature of the TPH protection must be below 65°C, if you print continously, Because the exterior of the temperature of the IC protection & motor can't not over 90°C to protect the motor thread ring.
- 7.6 Pls use the good quality paper, because the sensitive of the paper will infuence print effect, meanwhile, rough paper will increase the excessive wear to the printer head, and reduce the life of the printer.

8 ESC/POS Printing Command Set

8.1 Command list

Type Command		Name		
	<u>LF</u>	Print and line feed		
	CR	Print and carriage return		
	<u>HT</u>	Horizontal tab		
Print Commands	<u>FF</u>	Print the data in buffer		
1 Till Commands	ESC D	Set horizontal tab positions		
	ESC J n	Print and Feed n dots paper		
	ESC d n	Print and Feed n lines		
	ESC = n	Set peripheral device		
	ESC 2	Select default line spacing		
	ESC 3 n	Set line spacing		
Line spacing setting	ESC a n	Select justification		
Commands	GS L nL nH	Set left margin		
	ESC \$ nL nH	Set absolute print position		
	ESC B n	Set Left Space		
Character Setting	ESC! n	Select print mode(s)		
Commands	<u>GS! n</u>	Select character size		
	GS B n	Turn white/black reverse printing mode		
	ESC V n	Turn 90°clockwise rotation mode on/off		
	ESC G n	Turn on/off double-strike mode		
	ESC E n	Turn emphasized mode on/off		
	ESC SP n	Set right-side character spacing		
	ESC SO n	Select Double Width mode		

2)	E00 504	D D
	ESC DC4 n	Disable Double Width mode
	ESC { n	Turns on/off upside-down printing mode
	ESC - n	Set the underline dots(0,1,2)
	ESC % n	Select/Cancel user-defined characters
	<u>FS &</u>	Select Kanji character mode
	FS.	Cancel Kanji character mode
	FS! n	Set print mode for Kanji characters
	ESC &	Define user-defined characters
	ESC? n	Cancel user-defined characters
	ESC R n	Select and international character set
	ESC t n	Select character code table
	ESC *	Select bit-image mode
	GS *	Define downloaded bit image
	GS / n	Print downloaded bit image
	GS v	Print raster bit image
Bit Image	<u>DC2 *</u>	Print the bitmap
Commands	DC2 V	Print MSB bitmap
	DC2 v	Print LSB bitmap
	FS p n m	Print NV bitmap
	FS q n	Define NV bitmap
Init Commands	ESC @	Initialize printer
	GSrn	Transmit status
	GS a n	Enable/Disable Automatic Status Back(ASB)
Status Commands	ESC v n	Transmit paper sensor status
	ESC u n	Transmit peripheral device status (For drawer)
3	GS H n	Select printing position for HRI characters
	<u>GS h n</u>	Set bar code height
Bar Code	GS w n	Set bar code width
Commands	GS k	Print bar code
	GS x n	Set barcode printing left space
	ESC 7 n1 n2 n3	Setting Control Parameter Command
	ESC 8 n1 n2	Select sleeping parameter
Missollopoous	ESC 9 n	Select Chinese code format
Miscellaneous function commands	DC2 # n	
Turicuon commands		Set printing density
	DC2 T	Printing test page
Name	FS t n	Select Time out (for CB105B)
New commands	DC2 E	Feed Paper to Mark
	DC2 m d IL IH	Set Mark paper length
	ESC C n	Set BM Max (For BM)
	<u>GS FF</u>	Feed marked paper to print starting position (For BM)
	ESC i	Cut Paper (For cut)
	ESC m	Partial Cut Paper (For cut)
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<u>GS V</u>	Select cut mode and cut paper (For cut)
ESC p m	Generate pulse (For drawer)
ESC c 5	Enable/disable panel buttons (For button)
GS (F	Set adjustment values(s) (For 701BM)
<u>FS C</u>	Start receive buffer count (For cb65c)
<u>FS S</u>	Send receive buffer count(For cb65c)
FS s	save print parameter (for XBLY)
FS d	Load default leaving factory set (for XBLY)

8.2 Command Detail

8.2.1 Print Commands

LF

[Name] Print and line feed

[Format] ASCII: LF

Decimal: 10 Hexadecimal: 0A

[Description] Prints the data in the print buffer and feeds one line, based on the current

line spacing.

[Note] This command sets the print position to the beginning of the line.

[Reference] ESC 2, ESC 3

CR

[Name] Print and carriage return

[Format] ASCII: CR

Decimal: 13 Hexadecimal: 0D

[Description] When automatic line feed is enabled, this command functions the same

as **LF**; when automatic line feed is disabled, this command is ignored.

[Notes] λ This command line feed is ignored with a serial interface model.

 λ Sets the print starting position to the beginning of the line.

[Reference] LF

HT

[Name] Horizontal tab

[Format] ASCII: HT

Decimal: 9
Hexadecimal: 09

[Description] Moves the print position to the next horizontal tab position.

[Notes] λ This command is ignored unless the next horizontal tab position has

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been set.

- λ If the next horizontal tab position exceeds the printing area, the printer sets the printing position to [printing area width+1].
- λ Horizontal tab positions are set with **ESC D**.
- λ If this command is received when the printing position is at [printing area width+1], the printer executes print buffer-full printing of the current line and horizontal tab processing from the beginning of the next line.

[Reference] ESC D

FF

[Name] Print the data in buffer and locate to the next black mark

[Format] ASCII: FF

Decimal: 12 Hexadecimal: 0c

[Description] λ Print the data in the buffer.

 λ Locate to the black mark.

[Note] Only board with black mark function support this command.

ESC D n1...nk NUL

[Name] Set horizontal tab positions

[Format] ASCII: ESC D n1...nk NUL

Decimal: 27 68 n1...nk 00 Hexadecimal: 1B 44 n1...nk 00

[Range] 1≤n≤255

0≤k≤32

[Description] Set horizontal tab positions.

- λ n specifies the column number for setting a horizontal tab position from the beginning of the line.
- λ k indicates the total number of horizontal tab positions to be set.

[Note]

- The horizontal tab position is stored as a value of [character width×n] measured from the beginning of the line. The character width includes the right-side character spacing, and double-width characters are set with twice the width of normal characters.
- λ This command cancels the previous horizontal tab settings.
- λ When setting n = 8, the print position is moved to column 9 by sending **HT**.
- λ Up to 32 tab positions (k=32) can be set. Data exceeding 32 tab positions is processed as normal data.
- λ Transmit [n]k in ascending order and place a NUL code 0 at the end.
- When [n]k is less than or equal to the preceding value [n]k-1, tab setting is finished and the following data is processed as normal

data.

- λ ESC D NUL cancels all horizontal tab positions.
- The previously specified horizontal tab positions do not change, even if the character width changes.
 - The character width is memorized for each standard mode.

[Default] The default tab positions are at intervals of 8 characters (columns 9, 17,

25...) for Font A (12×24).

HT [Reference]

ESC J n

[Name] Print and feed paper

ESC J n [Format] ASCII:

> Decimal: 27 74 n Hexadecimal: 1B 4A n

0≤n≤255 [Range]

Prints the data in the print buffer and feeds the paper [n×0.125 mm [Description]

(0.0049")].

After printing is completed, this command sets the print starting [Notes] position to the beginning of the line.

> λ The paper feed amount set by this command does not affect the values set by ESC 2 or ESC 3.

λ In standard mode, the printer uses the vertical motion unit (y).

ESC d n

Print and feed n lines [Name]

ASCII: [Format] ESC d

> Decimal: 27 100 n Hexadecimal: 1B 64 n

0≤n≤255 [Range]

Print the data in the buffer and feed paper n lines. [Description]

[Notes] This command sets the print starting position to the beginning of the

> λ This command does not affect the line spacing set by ESC 2 or ESC 3.

> The maximum paper feed amount is 1016 mm (40 inches). If the paper feed amount (n×line spacing) of more than 1016 mm (40 inches) is specified, the printer feeds the paper only 1016 mm (40 inches).

[Reference] ESC 2, ESC 3

ESC = n

[Name] Set peripheral device

ASCII: ESC = n

[Format] Decimal: 27 61 n

Hexadecimal: 1B 3d n

[Description] Set peripheral device:

Bit	Off/On	Hex Decimal		Function
0	Off	00	0	Printer offline, not receive print data.
	On	01	1	Printer online, receive print data.
1-7	-	-	-	Undefined.

8.2.2 Line spacing setting commands

ESC 2

[Name] Select default line spacing

[Format] ASCII: ESC 2

Decimal: 27 50 Hexadecimal: 1B 32

[Description] Selects 3.75 mm (30×0.125 mm) line spacing.

[Note] The line spacing can be set independently in standard mode.

[Reference] ESC 3 n

ESC 3 n

[Name] Set line spacing

[Format] ASCII: ESC 3 n

Decimal: 27 51 n Hexadecimal: 1B 33 n

[Range] 0≤n≤255

[Description] Sets the line spacing to [n×0.125 mm].

[Note] λ The line spacing can be set independently in standard mode.

In standard mode, the vertical motion unit (y) is used.

[Default] n=30 [Reference] **ESC 2**

ESC a n

[Name] Select justification

[Format] ASCII: ESC a n

Decimal: 27 97 n Hexadecimal: 1B 61 n

[Range] 0≤n≤2, 48≤n≤50

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[Description] Aligns all the data in one line to the specified position.

n selects the justification as follows:

n	Justification
0,48	Left justification
1, 49	Centering
2, 50	Right justification

[Note]

- λ The command is enabled only when processed at the beginning of the line in standard mode.
- λ This command executes justification in the printing area.
- λ This command justifies the space area according to **HT**, **ESC** \$.

[Default] n=0

[Example]

Left	jus	tifi	cat	tio	n

ABC	
ABCD	
ABCDE	

Centering

Right justification

ABC ABCD ABCDE

GS L nL nH

[Name] Set left margin

[Format] ASCII: GS L nL nH

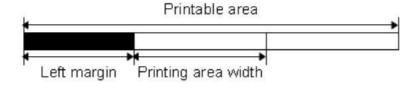
Decimal: 29 76 nL nH Hexadecimal: 1D 4c nL nH

[Range] 0≤nL≤255

0≤nH≤255

[Description] Sets the left margin using nL and nH.

The left margin is set to [(nL+nH×256) ×0.125 mm].



[Note]

- λ This command is effective only when processed at the beginning of the line in standard mode.
- $^{\lambda}$ $\,$ If the setting exceeds the printable area, the maximum value of the printable area is used.

[Default] nL=0, nH=0

ESC B n

[Name] Set left blank char numbers

[Format] ASCII: ESC B n

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Decimal: 27 66 n Hexadecimal: 1B 42 n

[Range] Default is 0

 $0 \le m \le 47$

ESC \$ nL nH

[Name] Set absolute print positions

[Format] ASCII: ESC \$ nL nH

Decimal: 27 36 nL nH Hexadecimal: 1B 24 nL nH

[Range] 0≤nL≤255

0≤nH≤255

[Description] Set the distance from the beginning of the line to the position at which

subsequent are to be printed.

The distance from the beginning of the line to the print position is[(nL+nH

×256)×0.125 mm]

[Note] λ Settings outside the specified printable area are ignored.

 λ In standard mode, the horizontal motion unit (x) is used.

[Reference] ESC \, GS \$, GS \

8.2.3 Character Setting Commands

ESC!n

[Name] Select print mode

[Format] ASCII: ESC ! r

Decimal: 27 33 n Hexadecimal: 1B 21 n

[Range] 0≤n≤255

[Description] Selects print mode(s) using n as follows:

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	Character Font A (12×24).
	On	01	1	Character Font B (9×17).
1	Off	00	0	Turn white/black reverse printing mode not selected.
	On	02	2	Turn white/black reverse printing mode selected.
2	Off	00	0	Turn on/off upside-down printing mode not selected.
	On	04	4	Turn on/off upside-down printing mode selected.
3	Off	00	0	Emphasized mode not selected.
	On	80	8	Emphasized mode selected.
4	Off	00	0	Double-height mode not selected.
	On	10	16	Double-height mode selected.
5	Off	00	0	Double-width mode not selected.

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3	On	20	32	Double-width mode selected.
6	Off	00	0	Turn Deleteline mode on/off not selected.
	On	40	64	Turn Deleteline mode on/off selected.
7	-	-	-	Undefined.

GS! n

[Name] Select character size

[Format] ASCII: GS!n

Decimal: 29 33 n Hexadecimal: 1D 21 n

[Range] 0≤n≤255

(1≤vertical number of times≤8, 1≤horizontal number of times≤8)

[Description] Selects the character height using bits 0 to 2 and selects the character

width using bits 4 to 7, as follows:

Bit	Off/On	Hex	Decimal	Function
0	Characte	er heigh	t selection. S	See Table 2.
1				
2				
3				
4	Characte	er width	selection. S	ee Table 1.
5				
6	8			
7				

Table 1
Character Width Selection

Hex	Decimal	Width
00	0	1(normal)
10	16	2(double-width)
20	32	3
30	48	4
40	64	5
50	80	6
60	96	7
70	112	8

Table 2
Character Height Selection

Hex	Decimal	Width
00	0	1(normal)
01	1	2(double-height)
02	2	3
03	3	4
04	4	5
05	5	6
06	6	7
07	7	8

[Note]

- λ This command is effective for all characters (alphanumeric and Kanji), except for HRI characters.
- λ If n is outside the defined range, this command is ignored.
- λ In standard mode, the vertical direction is the paper feed direction, and the horizontal direction is perpendicular to the paper feed direction. However, when character orientation changes in 90° clockwise-rotation mode, the relationship between vertical and

horizontal directions is reversed.

- λ When characters are enlarged with different sizes on one line, all the characters on the line are aligned at the baseline.
- The **ESC!** command can also turn double-width and double-height modes on or off. However, the setting of the last received command is effective.

[Default] n=0 [Reference] **ESC!**

GS B n

[Name] Turn white/black reverse printing mode

[Format] ASCII: GS B n

Decimal: 29 66 n Hexadecimal: 1D 42 n

[Range] 0≤n≤255

[Description] Turns on or off white/black reverse printing mode.

 λ When the LSB of n is 0, white/black reverse mode is turned off.

 λ When the LSB of n is 1, white/black reverse mode is turned on.

[Note] λ Only the lowest bit of n is valid.

 λ This command is available for built-in characters and user-defined characters.

- λ When white/black reverse printing mode is on, it also applies to character spacing set by **ESC SP**.
- $^{\lambda}$ This command does not affect bit images, user-defined bit images, bar codes,HRI characters, and spacing skipped by **HT**, **ESC** \$.
- λ This command does not affect the space between lines.
- White/black reverse mode has a higher priority than underline mode. Even if underline mode is on, it is disabled (but not canceled) when white/black reverse mode is selected.

[Default] n=0

ESC V n

[Name] Turn 90° clockwise rotation mode on/off

[Format] ASCII: ESC V n

Decimal: 27 86 n Hexadecimal: 1B 56 n

[Range] 0≤n≤1, 48≤n≤49

[Description] Turns 90° clockwise rotation mode on/off.

n is used as follows:

n	Function
0,48	Turns off 90° clockwise rotation mode
1,49	Turns on 90° clockwise rotation mode

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[Note]

- λ This command affects printing in standard mode. However, the setting is always effective.
- $^{\lambda}$ When underline mode is turned on, the printer does not underline 90° clockwise-rotated characters.
- $^{\lambda}$ Double-width and double-height commands in 90° rotation mode enlarge characters in the opposite directions from double-height and double- width commands in normal mode.

[Default] n=0

[Reference] ESC!, ESC

ESC G n

[Name] Turn on/off double-strike mode

[Format] ASCII: ESC G n

Decimal: 27 71 n Hexadecimal: 1B 47 n

[Range] 0≤n≤255

[Description] Turns double-strike mode on or off.

 $\lambda \quad \mbox{ When the LSB of n is 0, double-strike mode is turned off.}$

 λ When the LSB of n is 1, double-strike mode is turned on.

[Note] λ Only the lowest bit of n is enabled.

 λ Printer output is the same in double-strike mode and in emphasized

mode.

[Default] n=0 [Reference] **ESC E n**

ESC E n

[Name] Turn emphasized mode on/off

[Format] ASCII: ESC E n

Decimal: 27 69 n Hexadecimal: 1B 45 n

[Range] 0≤n≤255

[Description] Turns emphasized mode on or off

 λ When the LSB of n is 0, emphasized mode is turned off. λ When the LSB of n is 1, emphasized mode is turned on.

[Note] λ Only the least significant bit of n is enabled.

 λ This command and **ESC!** turn on and off emphasized mode in the

same way. Be careful when this command is used with ESC!

[Default] n=0 [Reference] **ESC!**

ESC SP n

[Name] Set right-side character spacing

[Format] ASCII: ESC SP n

Decimal: 27 32 n Hexadecimal: 1B 20 n

[Range] 0≤n≤255

[Description] Sets the character spacing for the right side of the character to [n×0.125]

mm (n×0.0049")].

[Note] λ The right-side character spacing for double-width mode is twice the

normal value. When characters are enlarged, the right-side character

spacing is n times normal value.

λ This command does not affect the setting of Kanji characters

 λ This command sets values independently in standard mode.

[Default] n=0

ESC SO n

[Name] Select Double Width mode

[Format] ASCII: ESC SO n

Decimal: 27 14 n Hexadecimal: 1B 0E n

[Description] Select Double Width mode

To turn double width off, use **LF** or **DC4** command.

ESC DC4 n

[Name] Disable Double Width mode

[Format] ASCII: ESC DC4 n

Decimal: 27 20 n Hexadecimal: 1B 14 n

[Description] Disable Double Width mode

ESC { n

[Name] Turns on/off upside-down printing mode

[Format] ASCII: ESC { n

Decimal: 27 123 n Hexadecimal: 1B 7B n

[Range] 0≤n≤255

[Description] Turns upside-down printing mode on or off.

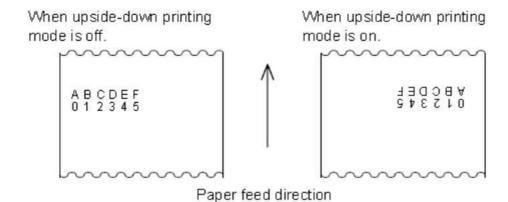
 λ When the LSB of n is 0, upside-down printing mode is turned off.

 λ When the LSB of n is 1, upside-down printing mode is turned on.

[Note] λ Only the lowest bit of n is valid.

- λ This command is enabled only when processed at the beginning of a line in standard mode.
- $^{\lambda}$ In upside-down printing mode, the printer rotates the line to be printed by 180° and then prints it.

[Default] [Example] n=0



ESC - n

[Name] Turn underline mode on/off

[Format] ASCII: ESC - n

Decimal: 27 45 n Hexadecimal: 1B 2D n

[Range] 0≤n≤2, 48≤n≤50

[Description] Turns underline mode on or off, based on the following values n:

n	Function
0, 48	Turns off underline mode
1, 49	Turns on underline mode (1 dot thick)
2, 50	Turns on underline mode (2 dots thick)

[Note]

- λ The printer can underline all characters (including right-side character spacing), but cannot underline the space set by **HT**.
- $^{\lambda}$ The printer cannot underline 90° clockwise rotated characters and white/black inverted characters.
- $^{\lambda}$ When underline mode is turned off by setting the value of n to 0 or 48, the following data is not underlined, and the underline thickness set before the mode is turned off does not change. The default underline thickness is 1 dot.
- λ Changing the character size does not affect the current underline thickness.
- Underline mode can also be turned on or off by using **ESC!**. Note, however, that the last received command is effective.

[Default] n = 0

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[Reference] **ESC!**

ESC % n

[Name] Enable/Disable User-defined Characters [Format] ASCII: ESC % n

Decimal: 27 37 n Hexadecimal: 1B 25 n

[Range] 0≤n≤255

[Description] Selects or cancels the user-defined character set.

 $\lambda \,\,$ $\,$ When the LSB of n is 0, the user-defined character set is canceled.

 λ When the LSB of n is 1, the user-defined character set is selected.

[Note] $$\lambda$$ When the user-defined character set is canceled, the built-in

character set is automatically selected.

 λ n is available only for the least significant bit.

[Default] n=0

[Reference] ESC &, ESC ?

FS &

[Name] Select Kanji character mode

[Format] ASCII: FS &

Decimal: 28 38 Hexadecimal: 1C 26

[Description] Selects Kanji character mode

[Note] For Kanji model:

When the Kanji character mode is selected, the printer processes all Kanji code as two bytes each.

 λ Kanji codes are processed in the order of the first byte and second byte.

λ Kanji character mode is not selected when the power is turned on.

[Reference] FS.

FS.

[Name] Cancel Kanji character mode

[Format] ASCII: FS

Decimal: 28 46 Hexadecimal: 1C 2E

[Description] Cancels Kanji character mode.

[Note] For Kanji model:

 λ When the Kanji character mode is not selected, all character codes are processed one byte at a time as ASCII code.

 λ Kanji character mode is not selected when the power is turned on.

[Reference] FS &

FS!n

[Name] Set print mode(s) for Kanji characters

[Format] ASCII: FS! n

Decimal: 28 33 n Hexadecimal: 1C 21 n

[Range] 0≤n≤255

[Description] Sets the print mode for Kanji characters, using n as follows:

Bit	Off/On	Hex	Decimal	Function
0	_	_	_	Undefined.
1	_	_	_	Undefined.
2	Off	00	0	Double-width mode is OFF.
	On	04	4	Double-width mode is ON.
3	Off	00	0	Double-height mode is OFF.
	On	08		Double-height mode is ON.
4	_	_	_	Undefined.
5	_	_	_	Undefined.
6	_	_	_	Undefined.
7	Off	00	0	Underline mode is OFF.
	On	80	128	Underline mode is ON.

[Note]

- λ When both double-width and double-height modes are set (including right- and left-side character spacing), quadruple-size characters are printed.
- The printer can underline all characters (including right- and left-side character spacing), but cannot underline the space set by **HT** and 90° clockwise-rotated characters.
- When some of the characters in a line are double or more height, all the characters on the line are aligned at the baseline.
- λ It is possible to emphasize the Kanji character using GS!; the setting of the last received command is effective.

[Default] n=0 [Reference] **GS!**

ESC & y c1 c2 [x1 d1...d($y \times x1$)]...[xk d1...d($y \times xk$)]

[Name] Define user-defined characters

[Format] ASCII: ESC & y c1 c2[x1 d1...d(y×x1)]...[xk d1...d(y×xk)]

Decimal: 27 38 y c1 c2 [x1 d1...d(y×x1)]...[xk d1...d(y×xk)]

Hexadecimal: 1B 26 y c1 c2 [x1 d1...d(y×x1)]...[xk d1...d(y×xk)]

[Range] y=3

32≤c1≤c2≤126

CX-1 user manual Xiamen Better Electronic Technology Co., Ltd 0≤x≤12 (when Font A (12×24) is selected)

 $0 \le d1 \dots d(y \times xk) \le 255$

[Description]

Defines user-defined characters.

- λ y specifies the number of bytes in the vertical direction.
- λ c1 specifies the beginning character code for the definition, and c2 specifies the final code.
- λ x specifies the number of dots in the horizontal direction.

[Note]

- λ The allowable character code range is from ASCII code <20>H to <7E>H (95 characters).
- λ It is possible to define multiple characters for consecutive character codes. If only one character is desired, use c1=c2.
- $^{\lambda}$ d is the dot data for the characters. The dot pattern is in the horizontal direction from the left side. Any remaining dots on the right side are blank.
- λ The data to define user-defined characters is (y×x) bytes.
- λ Set a corresponding bit to 1 to print a dot or 0 not to print a dot.
- λ This command can define different user-defined character patterns for each font. To select a font, use ESC!
- λ User-defined characters and a downloaded bit image cannot be defined simultaneously. When this command is executed, the downloaded bit image is cleared.
- The user-defined character definition is cleared when:
- 1) **ESC** @ is executed.
- 2) **GS** * is executed.
- 3) **ESC?** is executed.
- 4) The power is turned off.

[Default]

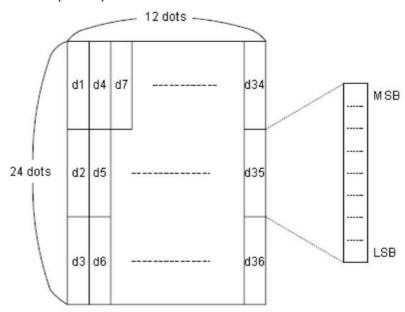
The internal character set

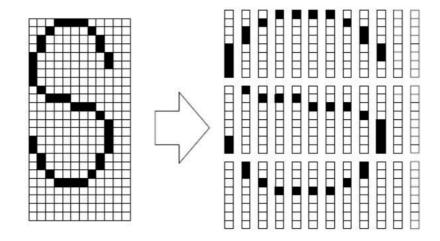
[Reference]

ESC %, ESC ?

[Example]

When Font A (12×24) is selected.





d1=<0F>H d4=<30>H d7=<40>H d2=<03>H d5=<80>H d8=<40>H d3=<00>H d6=<00>H d9=<20>H

ESC? n

[Name] Cancel user-defined characters

[Format] ASCII: ESC ? n

Decimal: 27 37 n Hexadecimal: 1B 3F n

[Range] 32≤n≤126

[Description] Cancels user-defined characters.

[Note]

- This command cancels the patterns defined for the character codes specified by n. After the user-defined characters are canceled, the corresponding patterns for the internal characters are printed.
- λ This command deletes the pattern defined for the specified code in the font selected by **ESC**!.
- $^{\lambda}$ If user-defined characters have not been defined, the printer ignores this command.

[Reference] ESC &, ESC %

ESC R n

[Name] Select an internal character set

[Format] ASCII: ESC R n

Decimal: 27 82 n Hexadecimal: 1B 52 n

[Range] 0≤n≤13

[Description] Select an internal character set n as follows:

n	Character set	n	Character set
0	U.S.A	8	Japan
1	France	9	Norway

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2	Germany	10	Denmark II
3	U.K	11	Spain II
4	Denmark I	12	Latin America
5	Sweden	13	Korea
6	Italy	14	Slovenia/Croatia
7	Spain I	15	China

[Default] n=0

ESC t n

[Name] Select character code table

[Format] ASCII: ESC t n

Decimal: 27 116 n Hexadecimal: 1B 74 n

[Range] 0≤n≤5, 16≤n≤19, n=255

[Description] Select page n from the character code table as follows:

N	Code Page	N	Code Page
0	CP437 [U.S.A., Standard Europe]	24	CP737 [Greek]
1	Katakana	25	WCP1257 [Baltic]
2	CP850 [Multilingual]	26	Thai
3	CP860 [Portuguese]	27	CP720[Arabic]
4	CP863 [Canadian-French]	28	CP855
5	CP865 [Nordic]	29	CP857[Turkish]
6	WCP1251 [Cyrillic]	30	WCP1250[Central Eurpoe]
7	CP866 Cyrilliec #2	31	CP775
8	MIK[Cyrillic /Bulgarian]	32	WCP1254[Turkish]
9	CP755 [East Europe, Latvian 2]	33	WCP1255[Hebrew]
10	Iran	34	WCP1256[Arabic]
11	reserve	35	WCP1258[Vietnam]
12	reserve	36	ISO-8859-2[Latin 2]
13	reserve	37	ISO-8859-3[Latin 3]
14	reserve	38	ISO-8859-4[Baltic]
15	CP862 [Hebrew]	39	ISO-8859-5[Cyrillic]
16	WCP1252 Latin I	40	ISO-8859-6[Arabic]
17	WCP1253 [Greek]	41	ISO-8859-7[Greek]
18	CP852 [Latina 2]	42	ISO-8859-8[Hebrew]
19	CP858 Multilingual Latin I +Euro)	43	ISO-8859-9[Turkish]
20	Iran II	44	ISO-8859-15 [Latin 3]
21	Latvian	45	Thai2
22	CP864 [Arabic]	46	CP856
23	ISO-8859-1 [West Europe]	47	Cp874

[Default] n=0

[Reference] Character Code Tables

ESC 9 n

[Name] Select Chinese code format

[Format] ASCII: ESC 9 n

Decimal: 27 57 n Hexadecimal: 1B 39 n

[Description] Select Chinese code format, n from the character code table as follows:

0: GBK code.1: UTF-8 code.3: BIG5 code.

[Note] This version is not support English.

[Reference]

8.2.4 Bit Image Command

ESC * m n1 n2 d1 d2...dk

[Name] Select bit-image mode

[Format] ASCII: ESC * m n1 n2 d1 d2 ... dk

Decimal: 27 42 m n1 n2 d1 d2 ... dk Hexadecimal: 1B 2A m n1 n2 d1 d2 ... dk

[Range] m = 0,1,32,33

nL=0-255 nH=0-3 dx=0-255

[Description] Selects a bit-image mode using m for the number of dots specified by nL

and nH, as follows:

		Vertical Direction		Horizontal Direction	
m	Mode	Number	Dot	Dot	Number of Data
		of Dots	Density	Density	(K)
0	8-dot	8	67.7 dpi	101.6 dpi	nL+nH×256
9	single-density	0			
1	8-dot	8	67.7 dpi	203.2 dpi	nL+nH×256
	double-density	5	•	203.2 upi	
32	24-dot	24	203.2 dpi	101.6 dpi	(nL+nH×256)×3
32	single-density	24	•		(112 111 1 2 2 3 0) 2 3
33	24-dot	24	203.2 dpi	203.2 dpi	(nL+nH×256)×3
33	double-density	ii.	<u>'</u>	·	,

[Note]

- λ If the value of m is out of the specified range, nL and nH the data following are processed as normal data.
- λ The nL and nH indicate the number of dots in the bit image in the horizontal direction. The number of dots is calculated by nL+ nH×256.

- λ If the bit-image data input exceeds the number of dots to be printed on a line, the excess data is ignored.
- $^{\lambda}$ d indicates the bit-image data. Set a corresponding bit to 1 to print a dot or to 0 not to print a dot.
- $^{\lambda}$ After printing a bit image, the printer returns to normal data processing mode.
- $^{\lambda}$ This command is not affected by print modes (emphasized, double-strike, underline, character size, or white/black reverse printing), except upside-down printing mode.
- λ The relationship between the image data and the dots to be printed is described in Figure 3.11.3.
- λ When 8-dot bit image is selected:

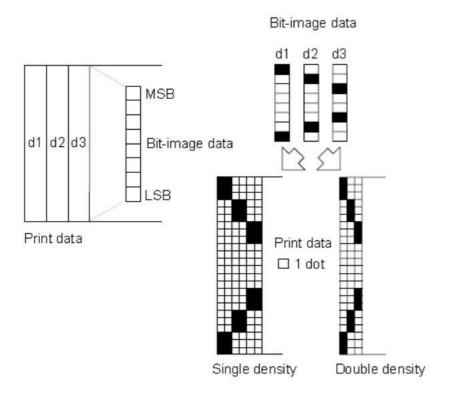


Figure 3.11.3.

 λ When 24-dot bit image is selected:

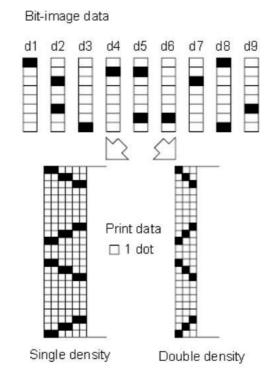


Figure 3.11.3.

GS * x y d1...d(x \times y \times 8)

Print data

[Name] Define downloaded bit image

[Format] ASCII: GS * x y d1 ... $d(x \times y \times 8)$

> Decimal: 29 42 x y d1 ... d(x×y×8)

> 1D 2A x y d1 ... d(x×y×8) Hexadecimal:

1≤x≤255 [Range]

1≤y≤48 (where x×y≤1536)

0≤d≤255

[Description] Defines a downloaded bit image using the number of dots specified by x

and y.

λ x specifies the number of dots in the horizontal direction.

λ y specifies the number of dots in the vertical direction.

The number of dots in the horizontal direction is x×8; in the vertical [Note] λ direction it is y×8.

> If x×y is out of the specified range, this command is disabled. λ

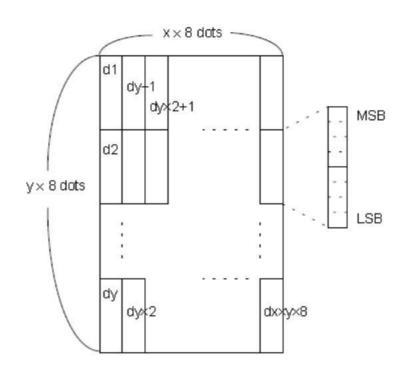
The d indicates bit-image data. Data (d) specifies a bit printed as 1 λ and not printed as 0.

The downloaded bit image definition is cleared when: λ

- 1) ESC @ is executed.
- 2) ESC & is executed.
- 3) Printer is reset or the power is turned off.
- The following figure shows the relationship between the downloaded

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CX-1 user manual Xiamen Better Electronic Technology Co., Ltd bit image and the printed data.



[Reference] GS /

GS/n

[Name] Print downloaded bit image

[Format] ASCII: GS / n

Decimal: 29 47 n Hexadecimal: 1D 2F n

[Range] 0≤n≤3, 48≤n≤51

[Description] Prints a downloaded bit image using the mode specified by n.

n selects a mode from the table below:

n	Mode	Vertical Dot Density	Horizontal Dot Density
0, 48	Normal	203.2 dpi	203.2 dpi
1, 49	Double-width	203.2 dpi	101.6 dpi
2, 50	Double-height	101.6 dpi	203.2 dpi
3, 51	Quadruple	101.6 dpi	101.6 dpi

[Note]

- λ This command is ignored if a downloaded bit image has not been defined.
- $^{\lambda}$ In standard mode, this command is effective only when there is no data in the print buffer.
- $^{\lambda}$ This command has no effect in the print modes (emphasized, double-strike, underline, character size, or white/black reverse printing), except for upsidedown printing mode.
- $\lambda \,\,$ If the downloaded bit-image to be printed exceeds the printable area, the excess data is not printed.

CX-1 user manual GS *

[Reference]

GS v 0 m xL xH yL yH d1....dk

[Name] Print raster bit image

[Format] ASCII: GS v 0 m xL xH yL yH d1...dk

Decimal: 29 118 48 m xL xH yL yH d1...dk

Hexadecimal: 1D 76 30 m xL xH yL yH d1...dk

[Range] 0≤m≤3, 48≤m≤51

0≤xL≤255

0≤xH≤255, where 1≤(xL+xH×256)≤48

0≤yL≤255

 $0 \le yH \le 8$, where $1 \le (yL + yH \times 256) \le 4095$

0≤d≤255

 $k=(xL+xH\times256)\times(yL+yH\times256) (k\neq0)$

[Description] Selects raster bit-image mode. The value of m selects the mode, as follows:

	Mada	Vertical	Horizontal
m	Mode	Dot Density	Dot Density
0, 48	Normal	203.2 dpi	203.2 dpi
1, 49	Double-width	203.2 dpi	101.6 dpi
2, 50	Double-height	101.6 dpi	203.2 dpi
3, 51	Quadruple	101.6 dpi	101.6 dpi

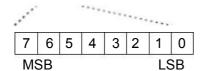
- λ xL, xH, select the number of data bytes (xL+xH×256) in the horizontal direction for the bit image.
- $^{\lambda}$ yL, yH, select the number of data bits (yL+yH×256) in the vertical direction for the bit image.

[Note]

- $^{\lambda}$ In standard mode, this command is effective only when there is no data in the print buffer.
- This command is not affected by print modes (character size, emphasized, double-strike, upside-down, underline, white/black reverse printing, etc.) for raster bit image.
- λ Data outside the printing area is read in and discarded on a dot-by-dot basis.
- The position at which subsequent characters are to be printed for raster bit image is specified by **HT** (Horizontal Tab), **ESC** \$ (Set absolute print position), and **GS L** (Set left margin). If the position at which subsequent characters are to be printed is a multiple of 8.
- λ The **ESC a** (Select justification) setting is also effective on raster bit images.
- d indicates the bit-image data. Setting a bit to 1 print a dot and setting it to 0 does not print a dot.

[Example] When xL+xH×256=64

←	(xL+xH×256)×8dots=512dots →							
1	2	3	****	*	62	63	64	1
65	66	67	****	*	126	127	128	
			****	*				yL+yH×256dots
			****	*	K-2	K-1	K	\downarrow



DC2 * r n [d1...dn]

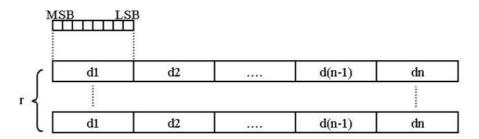
[Name] Print bitmap

[Format] ASCII: DC2 * r n [d1 ... dn]

Decimal: 18 42 r n [d1 ... dn] Hexadecimal: 12 2A r n [d1 ... dn]

[Description] Printing bitmap with width & height

r: Bitmap height n: Bitmap width Bitmap format:



DC2 V nL nH [d1...dn]

[Name] Print MSB Bitmap

[Format] ASCII: DC2 V nL nH [d1 ... d48]

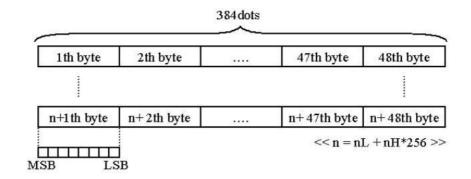
Decimal: 18 86 nL nH [d1 ... d48] Hexadecimal: 12 56 nL nH [d1 ... d48]

[Description] This command use to print MSB format bitmap,

The width of bitmap must the same as the printer mechanism

Bitmap height: nL+nH*256

Bitmap format:



FS p n m

[Name] Print NV bit image

[Format] ASCII: FS p n m

Decimal: 28 112 n m

Hexadecimal: 1C 70 n m

[Range] 1≤n≤255

0≤m≤3, 48≤m≤51

[Description] Prints NV bit image n using the mode specified by m.

m	Mode	Vertical Dot Density	Horizontal Dot Density
0, 48	Normal	203.2 dpi	203.2 dpi
1, 49	Double-width	203.2 dpi	101.6 dpi
2, 50	Double-height	101.6 dpi	203.2 dpi
3, 51	Quadruple	101.6 dpi	101.6 dpi

- λ n is the number of the NV bit image (defined using the **FS q** command).
- λ m specifies the bit image mode.

[Details]

- λ NV bit image is a bit image defined in non-volatile memory by FS $\bf q$ and printed by FS $\bf p$.
- λ This command is not effective when the specified NV bit image has not been defined.
- $^{\lambda}$ In standard mode, this command is effective only when there is no data in the print buffer.
- λ This command is not affected by print modes (emphasized, underline, character size, white/black reverse printing, or 90° rotated characters, etc.), except upside-down printing mode.
- λ If the downloaded bit-image to be printed exceeds one line, the excess data is not printed.
- $^{\lambda}$ This command feeds dots (for the height n of the NV bit image) in normal and double-width modes and (for the height n×2 of the NV bit image) in doubleheight and quadruple modes, regardless of the line spacing specified by **ESC 2** or **ESC 3**.
- λ After printing the bit image, this command sets the print position to the beginning of the line and processes the data that follows as

normal data.

[Reference] ESC *, FS q, GS /, GS v

FS q n [xL xH yL yH d1...dk]1...[xL xH yL yH d1...dk]n

[Name] Define NV bit image

[Format] ASCII: FS q n [xL xH yL yH d1...dk]1...[xL xH yL yH d1...dk]n

Decimal: 28 113 n [xL xH yL yH d1...dk]1...[xL xH yL yH d1...dk]n

Hexadecimal: 1C 71 n m [xL xH yL yH d1...dk]1...[xL xH yL yH d1...dk]n

[Range] 1≤n≤255

1≤xL≤255

 $1 \le xH \le 3 \text{ (when } 1 \le (xL + xH \times 256) \le 1023$

1≤vL≤255

1≤yH≤1 (when 1≤(yL+yH×256)≤288

1≤d≤255

k=(xL+xH×256)×(yL+yH×256)×8 Total defined data area=192K bytes.

[Description] Define the NV bit image specified by n.

 λ n specifies the number of the defined NV bit image.

- λ xL, xH specifies (xL+xH×256)×8 dots in the horizontal direction for the NV bit image you are defining.
- λ yL, yH specifies (yL+yH×256)×8 dots in the vertical direction for the NV bit image you are defining.

[Note]

- λ Frequent write command executions may damage the NV memory.
- λ Therefore, it is recommended to write the NV memory 10 times or less a day.
- The printer performs a hardware reset after the procedure to place the image into the NV memory. Therefore, user-defined characters, downloaded bit images should be defined only after completing this command. The printer clears the receiver and print buffers and resets the mode to the mode that was in effect at power on. (this version is not support hardware reset).
- λ This command cancels all NV bit images that have already been defined by this command.
- From the beginning of the processing of this command till the finish of hardware reset, mechanical operations (including initializing the position of the print head when the cover is open, paper feeding using the FEED button, etc.) cannot be performed.
- During processing of this command, the printer is BUSY when writing data to the user NV memory and stops receiving data. Therefore it is prohibited to transmit the data, including real-time commands, during the execution of this command.
- NV bit image is a bit image defined in non-volatile memory by **FS q** and printed by **FS p**.

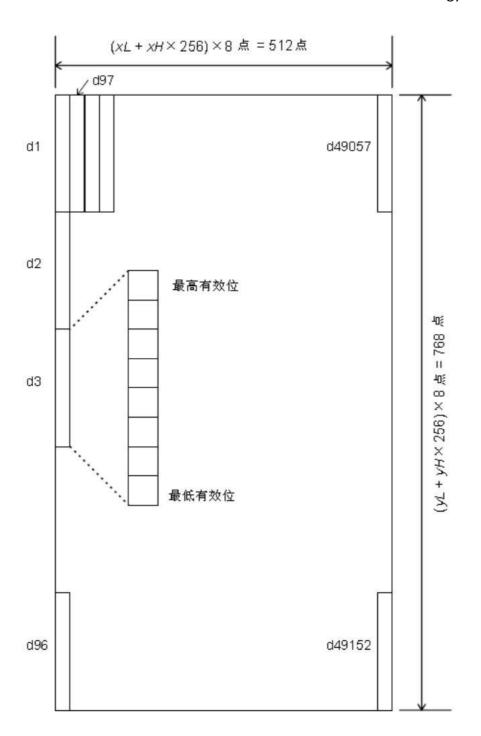
- λ In standard mode, this command is effective only when processed at the beginning of the line.
- This command is effective when 7 bytes<FS yH> of the command are processed normally.
- $^{\lambda}$ When the amount of data exceeds the capacity left in the range defined by xL, xH, yL, yH, the printer processes xL, xH, yL, yH out of the defined range.
- λ In the first group of NV bit images, when any of the parameters xL, xH, yL, yH is out of the definition range, this command is disabled.
- In groups of NV bit images other than the first one, when the printer encounters xL, xH, yL, yH out of the defined range, it stops processing this command and starts writing into the NV images. At this time, NV bit images that haven't been defined are disabled (undefined), but any NV bit images before that are enabled.
- λ The d indicates the definition data. In data (d) a 1 bit specifies a dot to be printed and a 0 bit specifies a dot not to be printed.
- This command defines n as the number of a NV bit image. Numbers rise in order from NV bit image 01H. Therefore, the first data group [xL xH yL yH d1...dk] is NV bit image 01H, and the last data group [xL xH yL yH d1...dk] is NV bit image n. The total agrees with the number of NV bit images specified by the command FS p.
- λ The definition data for an NV bit image consists of [xL xH yL yH d1...dk]. Therefore, when only one NV bit image is defined n=1, the printer processes a data group [xL xH yL yH d1...dk] once. The printer uses ([data: (xL+xH×256)×(yL+yH×256)×8]+[header: 4]) bytes of NV memory.
- The definition area in this printer is a maximum of 192K bytes. This command can define several NV bit images, but cannot define bit image data whose total capacity [bit image data+header] exceeds 192K bytes.
- λ The printer does not transmit ASB status or perform status detection during processing of this command even when ASB is specified.
- Once an NV bit image is defined, it is not erased by performing **ESC** @, reset and power off.
- This command performs only definition of an NV bit image and does not perform printing. Printing of the NV bit image is performed by the FS p command.

[Reference]

FS p

[Example]

当 xL=64, xH=0, yL=96, yH=0



DC2 v nL nH [d1...dn]

[Name] Print LSB Bitmap

[Format] ASCII: DC2 v nL nH [d1 ... d48]

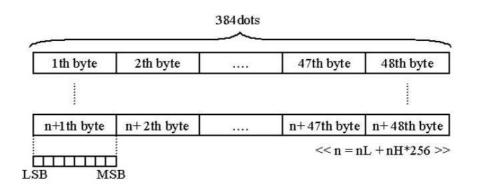
Decimal: 18 118 nL nH [d1 ... d48] Hexadecimal: 12 76 nL nH [d1 ... d48]

[Description] This command use to print LSB format bitmap,

The width of bitmap must the same as the printer mechanism

Bitmap height: nL+nH*256

CX-1 user manual Bitmap format:



8.2.5 Init command

ESC@

[Name] Initialize the printer

[Format] ASCII: ESC @

Decimal: 27 64 Hexadecimal: 1B 40

[Description] Initializes the printer.

 λ The print buffer is cleared.

 λ Reset the parametric to default value.

λ return to standard mode

 λ Delete user-defined characters

[Note] λ The DIP switch settings are not checked again.

 λ The data in the receive buffer is not cleared.

8.2.6 Status Command

ESC v n

[Name] Transmit paper sensor status

[Format] ASCII: ESC v n

Decimal: 27 118 n Hexadecimal: 1B 76 n

[Description] The return value is 1 bytes, It is a different on behalf of the status:

Bit	Off/On	Hex	Decimal	Function	
0	Off	00	0	Offline.	
0	On	01	1	Online.	
1	-	-	-	Undefined.	
2	Off	00	0	Paper has.	
2	On	04	4	Paper out.	
3	Off	00	0	Voltage is normal.	
3	On	08	8	Voltage>9.5V.	
4	-	-	-	Undefined.	

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5	-	-	- Undefined.	
6	Off	00	0	Temperature is normal.
	On	40	64	Temperature > 60°.
7	-	-	-	Undefined.

For example: return "0x04" is means paper out.

GS a n

[Name] Enable/Disable Automatic Status Back(ASB)

[Format] ASCII: GS a n

Decimal: 29 97 n Hexadecimal: 1D 61 n

[Range] 0≤n≤255

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[Description] n definition as follows:

When ASB is enabled, the printer will send the changed status to PC

automatically.

Bit	Function	Value		
ы	Function	0	1	
0	-	-	-	
1	-	-	-	
2	Disable/Enable ASB	Disable	Enable	
3-4	-	-	-	
5	Disable/Enable RTS as flow control	Disable	Enable	
6-7	-	-	-	

ESC u n (for Drawer)

[Name] Transmit peripheral devices status

[Format] ASCII: ESC u n

Decimal: 27 117 n

Hexadecimal: 1B 75 ⁿ

[Range] 0=0, 48

[Description] Transmits the status of the drawer kick-out connector pin 3 as 1byte of

data when n=0, 48.this allows the host to determine the status of a

peripheral device.

n is used as follows:

Bit	On/off	Hex	Decimal	Function	
0	Off	00	0	Drawer kick out connector pin 3 is low	
0	On	01	1	Drawer kick out connector pin 3 is high	
1-3	-	* -	-	Undefined	
4	Off	00	0	Not used. Fixed to off	
5-6	-	-	-	Undefined	
7	Off	00	0	Not used. Fixed to off	

GS r n

[Name] Transmit status

[Format] ASCII: GS r n

Decimal: 29 114 n Hexadecimal: 1D 72 n

[Range] n=1, 49

[Description] Transmits the status specified by n as follows:

n	Function
1, 49	Transmits paper sensor status

[Note]

- λ When using a serial interface
- When DTR/DSR control is selected, the printer transmits only 1 byte after confirming the host is ready to receive data (DSR signal is SPACE). If the host computer is not ready to receive data (DSR signal is MARK), the printer waits until the host is ready.
- 2) When XON/XOFF control is selected, the printer transmits only 1 byte without confirming the condition of the DSR signal.
- λ This command is executed when the data in the receive buffer is developed. Therefore, there may be a time lag between receiving this command and transmitting the status, depending on the receive buffer status.
- λ When Auto Status Back (ASB) is enabled using GS a, the status transmitted by GS r and the ASB status must be differentiated using.
- λ The status types to be transmitted are shown below:

Paper sensor status (n = 1, 49):

Bit	Off/On	Hex	Decimal	Status for ASB	
0,1	-	-	-	Undefined.	
2,3	Off	00	0	Paper roll end sensor: paper adequate.	
	On	(0C)	(12)	Paper roll end sensor: paper near end.	
4	Off	00	0	Not used. Fixed to Off.	
5,6	-	-	-	Undefined.	
7	Off	00	0	Not used. Fixed to Off.	

Bits 2 and 3:

When the paper end sensor detects a paper end, the printer goes offline and does not execute this command. Therefore, bits 2 and 3 do not transmit the status of paper end.

[Reference] GS a

8.2.7 Bar Code Command

GS H n

[Name] Select printing position for HRI characters

[Format] ASCII: GS H n

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Decimal: 29 72 n Hexadecimal: 1D 48 n

[Range] 0≤n≤3, 48≤n≤51

[Description] Selects the printing position of HRI characters when printing a bar code. n

selects the printing position as follows:

n	Printing position			
0, 48	Not printed			
1, 49	Above the bar code			
2, 50	Below the bar code			
3, 51	Both above and below the bar code			

HRI indicates Human Readable Interpretation.

[Note] HRI characters are printed using the font specified by **GS f**.

[Default] n=0

[Reference] GS f, GS k

GS h n

[Name] Set bar code height

[Format] ASCII: GS h n

Decimal: 29 104 n Hexadecimal: 1D 68 n

[Range] 0≤n≤255

[Description] Selects the height of the bar code.

n specifies the number of dots in the vertical direction.

[Default] n=162 [Reference] **GS k**

GS w n

[Name] Set bar code width

[Format] ASCII: GS w n

Decimal: 29 119 n Hexadecimal: 1D 77 n

[Range] 2≤n≤6

[Description] Sets the horizontal size of the bar code. n specifies the bar code width as follows:

Module Width (mm) **Binary-level Bar Code** for Multi-level Bar n Thin Element Width (mm) Thick Element Width(mm) Code 2 0.250 0.250 0.625 3 0.375 0.375 1.000 4 0.560 0.500 1.250 0.625 0.625 1.625 5

6	0.750	0.750	2.000
_	000	0.7.00	000

λ Multi-level bar codes are as follows:

UPC-A, UPC-E, JAN13 (EAN13), JAN8 (EAN8), CODE93, CODE128

 λ Binary-level bar codes are as follows:

CODE39, ITF, CODABAR

[Default] n=3 [Reference] **GS k**

GS k m d1 d2 ... dk NUL

GS k m n d1 d2 ... dn

[Name] Print bar code

[Format(1)] ASCII: GS k m d1 d2 ... dk NUL

Decimal: 29 107 m d1 d2 ... dk 0

Hexadecimal: 1D 6B m d1 d2 ... dk 00

 $[Format@] \qquad \qquad \mathsf{ASCII:} \qquad \qquad \mathsf{GS} \quad \mathsf{k} \quad \mathsf{m} \quad \mathsf{n} \quad \mathsf{d1} \; \mathsf{d2} \ldots \mathsf{dn}$

Decimal: 29 107 m n d1 d2 ... dn

Hexadecimal: 1D 6B m n d1 d2 ... dn

[Range①] 0≤m≤6(k and d depend on the bar code system used) [Range②] 65≤m≤73(n and d depend on the bar code system used)

[Description] Selects a bar code system and prints the bar code.

m selects a bar code system as follows:

m		Bar Code System	Number of Characters	Remarks
1	0	UPC-A	11≤k≤12	48≤d≤57
3	1	UPC-E	11≤k≤12	48≤d≤57
3	2	JAN13 (EAN13)	12≤k≤13	48≤d≤57
	3	JAN 8 (EAN8)	7≤k≤8	48≤d≤57
3	4	CODE39	1≤k′	48≤d≤57, 65≤d≤90, 32, 36,
				37, 43, 45, 46, 47
	5	ITF	1≤k (even number)	48≤d≤57
3	6	CODABAR	1≤k′	48≤d≤57, 65≤d≤68, 36, 43,
				45, 46, 47, 58
2	65	UPC-A	11≤k≤12	48≤d≤57
3	66	UPC-E	11≤k≤12	48≤d≤57
3	67	JAN13 (EAN13)	12≤k≤13	48≤d≤57
3	68	JAN 8 (EAN8)	7≤k≤8	48≤d≤57
3	69	CODE39	1≤n≤255	48≤d≤57, 65≤d≤90, 32, 36,
				37, 43, 45, 46, 47
3	70	ITF	1≤n≤255 (even	48≤d≤57
			number)	
	71	CODABAR	1≤n≤255	48≤d≤57, 65≤d≤68 , 36, 43,
		g g		45, 46, 47, 58
3	72	CODE93	1≤n≤255	0≤d≤127

[Notes for(1)]

- λ This command ends with a NUL code.
- When the bar code system used is UPC-A or UPC-E, the printer prints the bar code data after receiving 12 bytes of bar code data and processes the following data as normal data.
- When the bar code system used is JAN13 (EAN13), the printer prints the bar code after receiving 13 bytes of bar code data and processes the following data as normal data.
- When the bar code system used is JAN8 (EAN8), the printer prints the bar code after receiving 8 bytes of bar code data and processes the following data as normal data.
- $^{\lambda}$ The number of data for the ITF bar code must be even numbers. When an odd number of bytes of data is input, the printer ignores the last received data.

[Notes for(2)]

- π indicates the number of bar code data bytes, and the printer processes n bytes from the next character data as bar code data.
- λ If n is outside the specified range, the printer stops command processing and processes the following data as normal data.

[Notes in standard mode]

- λ If d is outside the specified range, the printer only feeds paper and processes the following data as normal data.
- $^{\lambda}$ $\,$ If the horizontal size exceeds printing area, the printer only feeds the paper.
- This command feeds as much paper as is required to print the bar code, regardless of the line spacing specified by ESC 2 or ESC 3.
- $^{\lambda}$ This command is enabled only when no data exists in the print buffer. When data exists in the print buffer, the printer processes the datafollowing m as normal data.
- λ After printing the bar code, this command sets the print position to thebeginning of the line.
- $^{\lambda}$ This command is not affected by print modes (emphasized, double-strike, underline, character size, white/black reverse printing, or 90° rotated character, etc.), except for upside-down printing mode.

Con	Control character		HRI character	Control character			HRI character
ASCII	Hex	Decimal	TIIN CHAIACLEI	ASCII	Hex	Decimal	Tilki Cilaractei
NUL	00	0	■U	DEL	10	16	■P
SOH	01	1	■A	DC1	11	17	■Q
STX	02	2	■B	DC2	12	18	■R
ETX	03	3	■ C	DC3	13	19	■S
EOT	04	4	■D	DC4	14	20	∎T
ENQ	05	5	■E	NAK	15	21	■U
ACK	06	6	■F	SYN	16	22	■V
BEL	07	7	■G	ETB	17	23	■W
BS	08	8	∎H	CAN	18	24	■X
HT	09	9	■ I	EM	19	25	■Y

LF	0A	10	■J	SUB	1A	26	■Z
VT	0B	11	∎K	ESC	1B	27	■A
FF	0C	12	■L	FS	1C	28	■B
CR	0D	13	■M	GS	1D	29	■ C
SO	0E	14	■N	RS	1E	30	■D
SI	0F	15	■ O	US	1F	31	■E
20.	8:	30		DEL	7F	127	■T

[Example]

Printing **GS k** 72 7 67 111 100 101 13 57 51



When CODE128 (m= 73) is used:

When using CODE128 in this printer, take the following points into account for data transmission:

- ①The top of the bar code data string must be the code set selection character (CODE A, CODE B, or CODE C), which selects the first code set.
- ②Special characters are defined by combining two characters "{" and one character. The ASCII character "{" is defined by transmitting "{" twice consecutively.

Specific	Transmit data				
character	ASCII	Hex	Decimal		
SHIFT	{S	7B, 53	123,83		
CODE A	{A	7B, 41	123,65		
CODE B	{B	7B,42	123,66		
CODE C	{C	7B,43	123,67		
FNC1	{1	7B,31	123,49		
FNC2	{2	7B,32	123,50		
FNC3	{3	7B,33	123,51		
FNC4	{4	7B,34	123,52		
"{"	{{	7B,7B	123,123		

[Example]

Example data for printing "No. 123456"

In this example, the printer first prints "No." using CODE B, then prints the following numbers using CODE C.

GS k 73 10 123 66 78 111 46 123 67 12 34 56



- λ If the top of the bar code data is not the code set selection character, the printer stops command processing and processes the following data as normal data.
- λ If the combination of "{" and the following character does not apply any special character, the printer stops command processing and processes the following data as normal data.
- If the printer receives characters that cannot be used in the special code set, the printer stops command processing and processes the following data as normal data.
- The printer does not print HRI characters that correspond to the shift characters or code set selection characters.
- λ HRI character for the function character is space.
- λ HRI characters for the control character (<00>H to <1F>H and <7F>H) are space.

[Others] Be sure to keep spaces on both right and left sides of a bar code.

(Spaces are different depending on the types of the bar code.)

[Reference] GS H, GS h, GS w

GS x n

[Name] Set bar code printing left space

[Format] ASCII: GS x n

Decimal: 29 120 n Hexadecimal: 1D 78 n

[Description] The print bar code staring positions is: $0\rightarrow25$

8.2.8 Miscellaneous Function Command

ESC 7 n1 n2 n3

[Name] Setting Control Parameter Command

[Format] ASCII: ESC 7 n1 n2 n3

Decimal: 27 55 n1 n2 n3 Hexadecimal: 1B 37 n1 n2 n3

[Description] λ Set "max heating dots"," heating time", "heating interval"

n1=0-255 Max printing dots, Unit(8dots), Default:7(64 dots) n2=3-255 Heating time, Unit(10us), Default:80(800us) n3=0-255 Heating interval, Unit(10us), Default:2(20us)

- λ The more max heating dots, the more peak current will cost when printing, the faster printing speed. The max heating dots is 8*(n1+1)
- $^{\lambda}$ The more heating time, the more density, but the slower printing speed. If heating time is too short, blank page may occur.
- λ The more heating interval, the clearer, but the slower printing speed.

ESC 8 n1 n2

[Name] Sleep parameter

[Format] ASCII: ESC 8 n1 n2

Decimal: 27 56 n1 n2 Hexadecimal: 1B 38 n1 n2

[Description] Setting the time for control board to enter sleep mode.

n1+n2*256 The time waiting for sleep after printing finished, Unit

(Second), Default: 0 (don't sleep).

When control board is in sleep mode, host must send one byte (0xff) to wake up control board. And waiting 50ms, then send printing command

and data.

[Note] The command is useful when the system is powered by battery.

DC2 # n

[Name] Set printing density

[Format] ASCII: DC2 # n

Decimal: 18 35 n Hexadecimal: 12 23 n

[Description] D4..D0 of n is used to set the printing density

Density is 50% + 5% * n(D4-D0)

D7..D5 of n is used to set the printing break time

Break time is n(D7-D5)*250us

DC2 T

[Name] Printing test page

[Format] ASCII: DC2 T

Decimal: 18 84 Hexadecimal: 12 54

[Description] Printing the test page

FS t n (for CB105B)

[Name] Select Timeout

[Format] ASCII: FS t n

Decimal: 28 116 n Hexadecimal: 1C 74 n

[Description] Set Timeout for one byte, t= n×10 ms; so if There are 100 bytes needed

for a command, the printer will wait 1000×n ms, when n=0, the printer will

wait until all chars needed have received.

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8.2.9 New commands

DC2 E

[Name] Feed paper to mark

[Format] ASCII: DC2 E

Decimal: 18 69 Hexadecimal: 12 45

[Description] Feed paper to the Mark position

DC2 m d 1l 1h

[Name] Set mark paper length

[Format] ASCII: DC2 m d 1l 1h

Decimal: 18 109 d 1l 1h Hexadecimal: 12 6d d 1l 1h

[Description] d = 0,1

1:stop at mark position

0:go on 3 steps after mark position detected

 $0 \le |I| \le 255$ $0 \le |h| \le 255$

Paper length is (II+Ih*256) steps, means (II+Ih*256)/8 mm

ESC C n (for BM)

[Name] Set BM Max

[Format] ASCII: ESC C n

Decimal: 27 67 n Hexadecimal: 1B 43 n

[Description] With the current row spacing of unit, the line number to define the scope

of testing black mark, the default value is 4 inches.

GS FF (for BM)

[Name] Feed marked paper to print starting position

[Format] ASCII: GS FF

Decimal: 29 12 Hexadecimal: 1D 0C

[Description] Feeds the marked paper to the print starting position.

Locate to the black mark.

[Note] λ This command sets the next print position to the beginning of the

line.

 λ Even if this command is executed at the print starting position of the marked paper, the printer does not feed the marked paper to the next

print starting position.

[Reference] GS (F

ESC i (for cut)

[Name] full cut paper

[Format] ASCII: ESC i

Decimal: 27 105 Hexadecimal: 1B 69

[Description] ESC i select a paper cutting mode and then full cut the paper.

ESC m (for cut)

[Name] partial cut paper

[Format] ASCII: ESC i

Decimal: 27 105 Hexadecimal: 1B 69

[Description] ESC m selects a paper cutting mode and then partial cut the paper.

①GS V m② GS V m n(for cut)

[Name] Select cut mode and cut paper

[Format] ①ASCII: GS V m

Decimal: 29 86 Hexadecimal: 1D 56 m ②ASCII: GS V m n Decimal: 29 86 m n Hexadecimal: 1D 56 m n

[Range] ① m=1, 49

② m=66, 0≤n≤255

[Description] Selects a mode for cutting paper and executes paper cutting. The value

of m selects the mode as follows:

m	Print mode
1, 49	Partial cut (one point left uncut)
66	Feeds paper (cutting position + $[n \times 0.125 \text{ mm}]$), and cuts the paper partially (one point left uncut).

[Notes for ① and ②]

 λ Cutting status is different, depending on the installed autocutter type.

 λ $\;$ This command is effective only when processed at the beginning of a line.

[Note for ①] Only the partial cut is available; there is no full cut.

[Notes for ②] λ When n=0, the printer feeds the paper to the cutting position and cuts it.

When $n\neq 0$, the printer feeds the paper to (cutting position+[$n\times 0.125$ mm (0.0049")]) and cuts it.

ESC P m t1 t2 (for Drawer)

[Name] Generate pulse

[Format] ASCII: ESC p m t1 t2

Decimal: 27 112 m t1 t2

Hexadecimal: 1B 70 m t1 t2

[Range] m=0,1,48,49

0≤t1≤255, 0≤t2≤255

[Description] Outputs the pulse specified by t1 to connector pin m as follows:

m	Function
0,48	Drawer kick-out connector pin2.
1,49	Drawer kick-out connector pin5.

[Note] λ The pulse ON time is [t1×2ms] and the OFF time is [t2×2ms].

 λ If t2<t1, the OFF time is [t1×2ms].

ESC c 5 n(for buttons)

[Name] Enable/disable panel buttons

[Format] ASCII: ESC c 5 n

Decimal: 27 99 53 n Hexadecimal: 1B 03 35 n

[Range] 0≤n≤255

[Description] Enable/disable panel buttons (support the panel buttons)

 λ When the LSB of n is 0, the panel buttons are enabled.

 λ When the LSB of n is 1, the panel buttons are disabled.

[Default] n=0

GS (F pL pH a m nL nH (for 701BM)

[Name]

[Format] ASCII: GS (F pL pH a m nL nH

Decimal: 29 40 70 pL pH a m nL nH Hexadecimal: 1D 28 46 pL pH a m nL nH

[Range] $(pL+(pH\times256))=4$ (where pL=4, pH=0)

1≤a≤2

m = 0, 48 or 1, 49

 $0 \le (nL + nH \times 256) \le 65535$ (where $0 \le nL \le 255$, $0 \le nH \le 255$)

[Description] This command is effective only when the BM sensor is enabled.

Sets adjustment values(s) for the printer operations specified by a.

 λ pL and pH specifies the number of the parameter such as a to

(pL+(pH×256))bytes.

 λ a specifies setting values for the positions to start printing and cutting

а	Function
1	Setting value for the positions to start the printing.
2	Setting value for the positions to start the cutting.

 λ m specifies the direction of the adjustment.

m	Function
0,48	Specifies a forward paper feeding direction
1,49	Specifies a backward paper feeding direction.

- λ nL and nH specifies the setting value to [(nL+nH×256)×0.125 mm].
- λ The adjustment value for the print starting position (a=1) is affected with the following commands: GS FF
- λ The adjustment value for the paper cutting position (a=2) is affected with the following commands: **GS V m n**

[Default] All adjustment values are set to "0".

(At the factory setting, the print starting position and the cutting position are set to the head position and the cutter position respectively when the

BM sensor detects the BM.)

[Reference] GS FF, GS V

FS C (for CB65C)

[Name] Start receive buffer count

[Format] ASCII: FS C

Decimal: 28 67 Hexadecimal: 1C 43

[Description] Start receiving buffer count.

FS S (for CB65C)

[Name] Start send buffer count

[Format] ASCII: FS S

Decimal: 28 83 Hexadecimal: 1C 53

[Description] Send count of receive buffer, include this command's 2 bytes.

FS s (for XBLY)

[Name] Save print parater

[Format] ASCII: FS s

Decimal: 28 115

Hexadecimal: 1C 73

[Description] Save print parater. (only for XBLY)

FS d (for XBLY)

[Name] Load default leaving factory set [Format] ASCII: FS

Decimal: 28 100

Hexadecimal: 1C 64

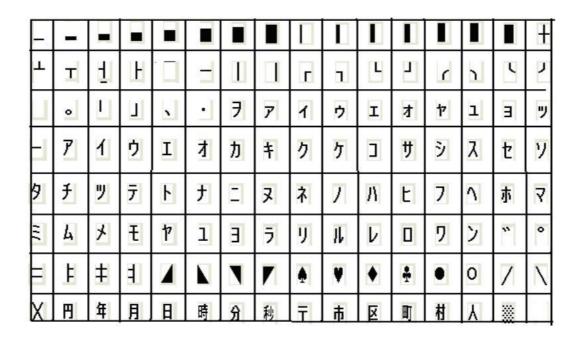
[Description] Load default leaving factory set .(only for XBLY)

Appendix 1 Code page

Page0 PC437 Page3 CP860 [Portuguese]

3			8	50			Coc	le pag	ge 43	7			90	v 5	2	901
	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_В	_c	_D	_E	_F
8_	Ç	ü	é	â	ä	à	å	ç	ê	ë	è	ï	î	ì	Ä	Å
9_	É	æ	Æ	ô	ö	Ò	û	ù	ÿ	Ö	Ü	¢	£	¥	Pts	f
A_	á	ĺ	ó	ú	ñ	Ñ	а	o	خ	_	7	1/2	1/4	i	«	»
B_		******			4	=	1	П	7	1		ה	لا	Ш	4	7
C_	L	Т	Т	F	_	+	F	⊩	L	ΙĒ	1	īĒ	ŀ	=	#	—
D_	Ш	₹	π	L	F	F	Γ	#	+	J	Г					
E_	α	ß	Γ	П	Σ	σ	μ	Т	Φ	Θ	Ω	δ	∞	φ	ε	Λ
F_	=	±	≥	≤	ſ	J	÷	≈	o			V	n	2		

Page 1 Katakana



Page2 PC850 [Multilingual]

3	Code page 850															
	_0 _1 _2 _3 _4 _5 _6 _7 _8 _9 _A _B _C _D _E _F															
8_	Ç	ü	é	â	ä	à	å	ç	ê	ë	è	ï	î	ì	Ä	Å
9_	É	æ	Æ	ô	ö	Ò	û	ù	ÿ	Ö	Ü	ø	£	Ø	×	f
A_	á	ĺ	ó	ú	ñ	Ñ	а	o	ن	®	7	1/2	1/4	i	«	»

В_		******			7	Á	Â	À	©	규		╗		¢	¥	٦
C_	L	工	Т	F		+	ã	Ã	L	F	킈	īF	ŀ	=	뱎	¤
D_	ð	Ð	I ⊢ I	Ë	È	I	ĺ	Î	Ϊ	١	Г		-	ŀ	Ì	
Ë_	Ó	ß	Ô	Ò	õ	Õ	μ	þ	Þ	Ú	Û	Ù	ý	Ý	_	•
F_ ·	_	±	=	3/4	¶	§	÷	د	0		•	1	3	2		

Page3 PC860 [Portuguese]

3	64			10 s			Cod	e pag	ge 860)			901		2	
	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_В	_c	_D	_E	_F
8_	Ç	ü	é	â	ã	à	Á	ç	ê	Ê	è	Í	Ô	ì	Ã	Â
9_	É	À	È	ô	õ	Ò	Ú	ù	ì	Õ	Ü	¢	£	Ù	Pts	Ó
A_	á	ĺ	ó	ú	ñ	Ñ	а	o	¿	Ò	7	1/2	1/4	i	«	»
B_		******	***		-	=	1	П	7	1		า	لا	لا	4	7
C_	L	Т	Т	F	_	+	F	 	L	F	<u>JL</u>	ī	ŀ	=	뷰	<u></u>
D_	Ш	₹	π	L	F	F	Г	#	+	J	Г					
E_	α	ß	Γ	Π	Σ	σ	μ	Т	Φ	Θ	Ω	δ	∞	φ	ε	Λ
F_	=	±	≥	≤	ſ	J	÷	*	o			V	n	2		

Page4 PC863 [Canadian-French]

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Page18 PC852

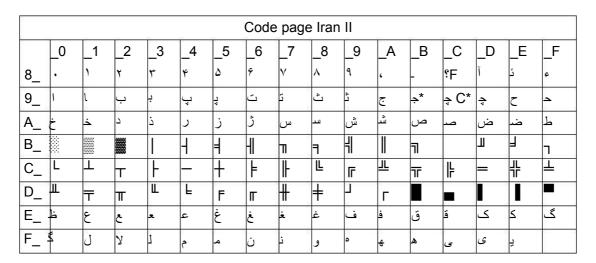
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Page24 CP737 [Greek]

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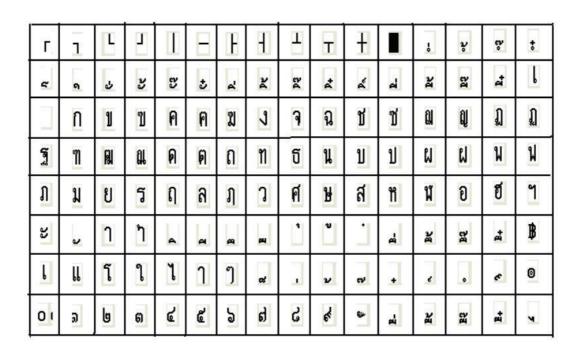
CX-1 user manual

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Page25 WCP1257 [Baltic]

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Page26 Thai

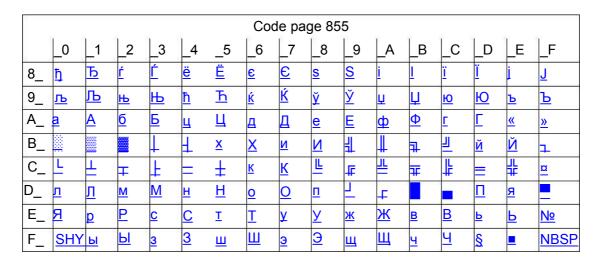


Page27 CP720 [Arabic]

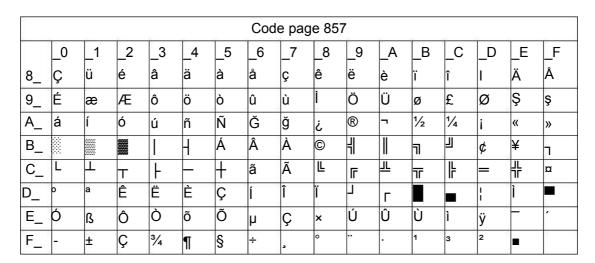
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Page29 PC857 [Turkish]

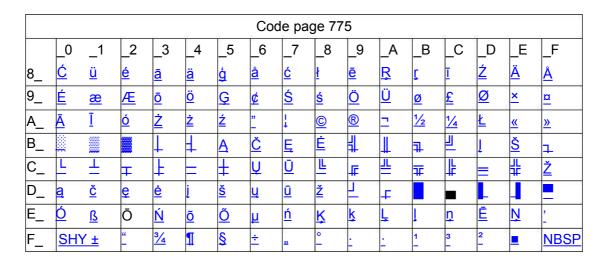


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Page33 WCP1255 [Hebrew]

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CX-1 user manual

Xiamen Better Electronic Technology Co., Ltd

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D_	<u>Ð</u>	Ņ	<u>Ō</u>	Ķ	<u>Ô</u>	<u>Õ</u>	<u>Ö</u>	×	<u>Ø</u>	Ų	<u>Ú</u>	<u>Û</u>	<u>Ü</u>	<u>ũ</u>	<u>Ū</u>	<u>ß</u>
E_	<u>ā</u>	<u>á</u>	<u>â</u>	<u>ã</u>	<u>ä</u>	<u>å</u>	<u>æ</u>	į	<u>č</u>	<u>é</u>	ę	<u>ë</u>	<u>ė</u>	<u>Í</u>	<u>Î</u>	Ī
F_	<u>đ</u>	ņ	<u>ō</u>	ķ	<u>ô</u>	<u>õ</u>	<u>ö</u>	÷	<u>ø</u>	Ų	<u>ú</u>	<u>û</u>	<u>ü</u>	<u>ũ</u>	<u>ū</u>	-

Page39 ISO-8859-5[Cyrillic]

						Сс	de pa	age-8	859-	5						
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8_																
9_			_	ŕ	C							_				
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しムーロ	user	шап	uai

B_	<u>A</u>	<u>Б</u>	<u>B</u>	Г	Д	E	ж	<u>3</u>	<u>и</u>	<u>й</u>	<u>K</u>	Л	М	H	<u>o</u>	Π
C_	<u>P</u>	<u>C</u>	I	У	<u>Φ</u>	X	Ц	<u> </u>	Ш	Щ	<u>Ъ</u>	<u>Ы</u>	<u>ь</u>	<u>Э</u>	Ю	<u>Я</u>
D_	<u>a</u>	<u>б</u>	<u>B</u>	Г	Д	<u>e</u>	ж	<u>3</u>	И	<u>й</u>	<u>K</u>	<u>л</u>	M	H	<u>o</u>	П
E_	р	<u>c</u>	I	У	ф	<u>x</u>	Ц	<u>ч</u>	<u>ш</u>	Щ	<u>ъ</u>	<u>ы</u>	<u>ь</u>	<u>э</u>	<u>ю</u>	<u>я</u>
F_	Nº	<u>ë</u>	ђ	<u>Ć</u>	<u>©</u>	<u>S</u>	<u>i</u>	<u> </u>	į	<u>љ</u>	<u>н</u>	<u>ħ</u>	<u>Ŕ</u>	§	Ў	보

Page40 ISO-8859-6[Arabic]

						Сс	de pa	age-8	859-6	3				5.		
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9_																
A_	NBSP				¤								<u> </u>	<u>SHY</u>		
B_												<u> </u>				<u>?</u>
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D_	ذ	ر	ز	س	ش	ص	ض	ط	ظ	ع	غ					
E_	-	ف	ق	ك	ل	م	ن	٥	و	ی	ي	0	0	0	0	0
F_	0	0	0													

Page41 ISO-8859-7[Greek]

						Сс	de p	age-8	859-7	7						
	_0	_1	_2	_3	_4	_5	_6	_7	_8_	_9	_A	_B	_C	_D	_E	_F
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9_																
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C_	Î	<u>A</u>	<u>B</u>	<u> </u>	Δ	E	<u>Z</u>	<u>H</u>	<u>Θ</u>	İ	<u>K</u>	Λ	<u>M</u>	N	Ш	<u>O</u>
D_	П	<u>P</u>		Σ	Ι	<u>Y</u>	Φ	<u>X</u>	<u>Ψ</u>	Ω	Ï	<u>Ÿ</u>	<u>ά</u>	<u>έ</u>	ή	<u>Í</u>
E_	<u>ű</u>	<u>α</u>	<u>β</u>	Y	δ	<u>8</u>	ζ	n	<u>θ</u>	<u> </u>	<u>K</u>	<u>λ</u>	ħ	<u>v</u>	ξ	<u>o</u>
F_	π	ρ	ς	<u>σ</u>	Ī	<u>U</u>	φ	X	Ψ	<u>ω</u>	<u>Ï</u>	<u>ü</u>	<u>Ó</u>	<u>Ú</u>	<u>ώ</u>	

Page42 ISO-8859-8[Hebrew]

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F_	<u>1</u>	<u>o</u>	<u>ע</u>	<u> 1</u>	<u>9</u>	Y	<u>y</u>	7	ב	اھ	<u>ת</u>			LRM	RLM	

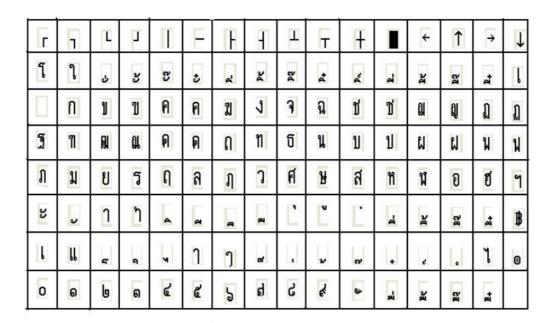
Page43 ISO-8859-9[Turkish]

	v					Сс	de pa	age-8	859-9	9						8
	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_В	_C	_D	_E	_F
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C_	À	<u>Á</u>	<u>Â</u>	<u>Ã</u>	<u>Ä</u>	<u>Å</u>	Æ	Ç	È	<u>É</u>	<u>Ê</u>	Ë	<u>ì</u>	<u>Í</u>	<u>Î</u>	<u>I</u>
D_	<u>Ğ</u>	<u>Ñ</u>	<u>Ò</u>	<u>Ó</u>	<u>Ô</u>	<u>Õ</u>	<u>Ö</u>	<u>×</u>	<u>Ø</u>	<u>Ù</u>	<u>Ú</u>	<u>Û</u>	<u>Ü</u>	<u>i</u>	Ş	<u>ß</u>
E_	<u>à</u>	<u>á</u>	<u>â</u>	<u>ã</u>	<u>ä</u>	<u>å</u>	<u>æ</u>	Ç	<u>è</u>	<u>é</u>	<u>ê</u>	<u>ë</u>	<u>ì</u>	<u>í</u>	<u>Î</u>	<u>ï</u>
F_	ğ	<u>ñ</u>	<u>ò</u>	<u>ó</u>	<u>Ô</u>	<u>õ</u>	<u>ö</u>	÷	<u>ø</u>	<u>ù</u>	<u>ú</u>	<u>û</u>	<u>ü</u>	<u>I</u>	<u>ş</u>	ÿ

Page44 ISO-8859-15 [Latin 3]

						Со	de pa	ge-8	359-1	5						
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9_																
A_	NBSP; ¢ £ € ¥ Š § š © ª « ¬ SHY ® ¬															
В_	o _	±	2 -	3 -	<u>Ž</u>	<u>µ</u>	1		<u>Ž</u>	1	0 –	<u>»</u>	Œ	<u>œ</u>	<u>Ÿ</u>	<u>i</u>
C_	<u>À</u>	<u>Á</u>	<u>Â</u>	<u>Ã</u>	<u>Ä</u>	<u>Å</u>	Æ	Ç	Ш	É	<u>Ê</u>	<u>Ë</u>	<u> </u>	<u>Í</u>	<u>Î</u>	Ϊ
D_	<u>Ð</u>	<u>Ñ</u>	<u>Ò</u>	<u>Ó</u>	<u>Ô</u>	<u>Õ</u>	<u>Ö</u>	×	<u>Ø</u>	<u>Ù</u>	<u>Ú</u>	<u>Û</u>	<u>Ü</u>	<u>Ý</u>	<u>Þ</u>	<u>ß</u>
E_	<u>à</u>	<u>á</u>	<u>â</u>	<u>ã</u>	<u>ä</u>	<u>å</u>	<u>æ</u>	Ç	<u>è</u>	<u>é</u>	<u>ê</u>	<u>ë</u>	<u>ì</u>	<u>Í</u>	<u>Î</u>	<u>Ï</u>
F_	<u>ð</u>	<u>ñ</u>	<u>Ò</u>	<u>ó</u>	<u>ô</u>	<u>õ</u>	<u>ö</u>	÷	<u>ø</u>	<u>ù</u>	<u>ú</u>	<u>û</u>	<u>ü</u>	Ý	<u>þ</u>	ÿ

Page45 Thai2



Page46 CP856 ()

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9_	<u>P</u>	<u>C</u>	Ι	<u>y</u>	<u>Φ</u>	<u>X</u>	Ц	<u>4</u>	Ш	Щ	<u>ъ</u>	<u>Ы</u>	<u> </u>	<u>Э</u>	<u>Ю</u>	<u>Я</u>
A_	<u>a</u>	<u>б</u>	<u>B</u>	Γ	Д	<u>e</u>	<u>ж</u>	<u>3</u>	<u>и</u>	<u>й</u>	<u>K</u>	<u>л</u>	<u>M</u>	<u>H</u>	<u>o</u>	п
В_	р	<u>c</u>	I	У	ф	<u>x</u>	Ц	<u>4</u>	Ш	Щ	<u>ъ</u>	<u>ы</u>	<u> </u>	<u>э</u>	<u>ю</u>	<u>я</u>
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Page47 Cp874

							Co	de pa	ge 87	'4						
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Appendix 2 International character set:

Country					AS	SCII C	ode(H	lex)				
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U.S.A.	#	\$	@	[١]	٨	,	{	I	}	~
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Germany	#	\$	§	Ä	Ö	Ü	٨	`	ä	Ö	ü	ß
U.K.	£	\$	@	[١]	٨	`	{	I	}	~
Denmark I	#	\$	@	Æ	Ø	Å	٨	`	æ	Ø	å	~
Sweden	#	¤	É	Ä	Ö	Å	Ü	é	ä	ö	å	ü
Italy	#	\$	@	0	١	é	٨	ù	à	Ò	è	ì
Spain I	Pt	\$	@	i	Ñ	ن	٨	,	••	ñ	}	~
Japan	#	\$	@	[¥]	٨	`	{	I	}	~
Norway	#	¤	É	Æ	Ø	Å	Ü	é	æ	Ø	å	ü
DenmarkⅡ	#	\$	É	Æ	Ø	Å	Ü	é	æ	Ø	å	ü
SpainⅡ	#	\$	á	i	Ñ	ن	é	`	ĺ	ñ	Ó	ú
Latin	#	\$	á	i	Ñ	ن	é	ü	í	ñ	Ó	ú
Korea	#	\$	@	[₩]	٨	,	{	I	}	~
Slovenia/Croatia	#	\$	Ž	Š	Ď	Ć	Č	ž	š	ď	Ć	č
China	#	¥	@	[١]	٨	`	{		}	~

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Unicode.	FB92.	FB93.	FB94.,	FB95.,	FE80.,	FES1.	FE83.	FE84.,	FE85.	FE86.	FE89.	FE8A.	FESb.	FESC.	FESD.	FESE.
8.	ەب	مب	ہِد	٠٠	ö₽	مة	ەت	مت	ەت	ست	ەث	مث	ہڙ_	۰ڐ	۰ج	مج
Unicode .	FESF.	FE90.	FE91.	FE92.	FE93.	FE94.	FE95.s	FE96.,	FE97.	FE98.	FE99.	FE9A.	FE9B.	FE9C.	FE9D	FE9E.
9.	ەج	مج	٥ح	مح	ىر د	20	٠ځ	مخ	ەخ	مخد	٥٥	10	3.0	مذ	٥٥	سر
Unicode	FE9F.	FEA0.	FEA1.	FEA2.	FEA3.	FEA4.	FEA5.	FEA6.	FEA7.	FEAS.	FEA9.	FEAA.	FEAB.	FEAC.	FEAD.	FEAE.
A∍	٠ز	۰ز	On to	One	⊶ س ۔	مس	⇔ش	مش	÷شـ	⊶شہ	ص	ص	<i>ج</i> ص	<i>ه</i>	مض	مض
Unicode .	FEAF.	FEB0.	FEB1.	FEB2.	FEB3.	FEB4.	FEB5.	FEB6.	FEB7.	FEBS.	FEB9.	FEBA.	FEBB.	FEBC.	FEBD.	FEBE.
B.	٥ڞ	0	eط	ىط	۰ ط	e _ط	٥ظ	۵	٥ظ	ەظ	٥٩	مع	42	20	÷۰	مغ
Unicode.	FEBF.	FEC0.	FEC1.	FEC2.	FEC3.,	FEC4.	FEC5.	FEC6.	FEC7.	FECS.,	FEC9.	FECA.	FECB.	FECC.	FECD.	FECE.
C.	ه ي	مغ	ہف	مف	ہف_	<u>_</u> ġ0	۰ق	۰ق	ى <mark>ق</mark> _	_ ä 0	<i>چ</i> اك	مك	بک	مک	مل	مل
Unicode.	FECF.	FED0.	FED1.	FED2.	FED3.	FED4.	FED5	FED6.	FED7.	FEDS.	FED9.	FEDA,	FEDB.	FEDC.	FEDD.	FEDE.
D₽	ىل_	مل	₽0	₽0	_00	مهـ	ان	ان	<i>ه</i> ز_	مذ	00	d ₽	<i>ب</i> هـ	80	٠ و	⊶و
Unicode	FEDF.	FEE0.	FEE1.	FEE2.	FEE3.	FEE4.	FEE5.	FEE6.	FEE7.	FEES.	FEE9.1	FEEA.	FEEB.	FEEC.	FEED.	FEEE.,
E.	۵	۵	ٿ.	÷.	No.	Sho	ەپ	مپ	پ	مپ	٠٠	دبعج	مچ	مڅ	؞ڗٛ	٠ۛڙ
Unicode	FEEF.	FEF0.	FEF3.	FEF4.	FEFB.	FEFC.	FB56.	FB57.,	FB58.	FB59.,	FB7A.	FB7B.	FB7C.	FB7D.	FB8A.	FB8B.
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Unicode	00AF.,	005F.s	2595.	258F.,	2502.,	E83A.	2588.,	(3)	- 22	38	a	a,	29	(39)	- 3	7(0)