

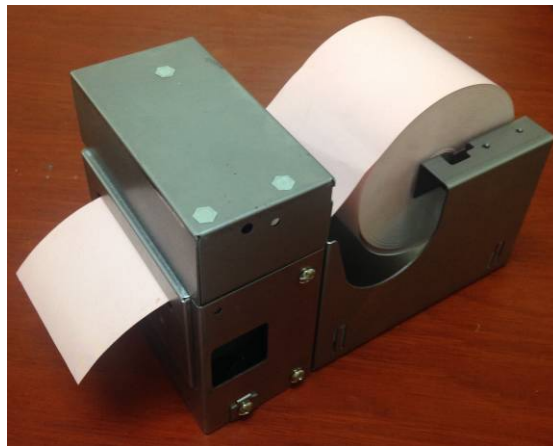
POSJET Thermal Printer



PM258 Serials

Technical Manual

V1.04



MEGADATA INDUSTRIAL, Inc.

1F, NO.10, Lane 58, Ta Chuan Street,

TAICHUNG, TAIWAN R.O.C.

TEL: +886-4-2376-6881 FAX: +886-4-2371-7974

www.posjet.com.tw megadata@ms21.hinet.net

REVISION TABLE

The table below indicates which pages in this manual have been revised.
 Before reading this manual, be sure you have the correct version of each page.

Revision		Design section		Table Rev. No.	
Version	Description	Date	Writer /Approve	Rev.	Page
1.0	Specification	2015/12/2		1.00	
1.00	Baudrate	2016/10/24	Johnny/Wonder	1.01	5
1.01	Modify(add image command)	2016/11/03	Johnny/Wonder	1.02	8 17~19
1.02	Correct command ESC+'H', ESC+'W', ESC+'Z'	2016/11/09	Johnny/Wonder	1.03	8 15~16
1.03	Modify(add image command)	2016/12/16	Johnny/Wonder	1.04	8 21

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1. Specification

MODEL	PM258	PM258L
Printing Method	384 Dot Line Direct Thermal	384 Dot Line Direct Thermal
Effective area	48mm	48mm
Resolution(density)	0.125(8 dots / mm) 203dbi	
Speed	200 mm / second DC26V Max.	100 mm / second DC 9.5V Max.
Memory		
Buffer	16K bytes	
Fonts		
Character Set	ASCII International, (Traditional or Simplify Chinese or JIS Code[5313] or Shift JIS Code [5313])	
Characters ASCII	Two type of font : 24 dot characters(24*12 dots [H * W dot]) and 16 dot characters(16*8 dots and 16*12 dots) 2D Barcode ,can be selected by commands.	
Character Chinese	24(16*16), 16(24*24)(Chinese) (H x W dot)	
Graphic	Bit addressable graphic ;command set	
1D Bar Code	Code 39, Code 93, Code 128, EAN8, EAN13, UPCA, UPCE, CODABAR and ITF	
2D Bar Code	2D Code, Maxi code, Data matrix	
Downloadable	Fonts, graphics, logos and additional bar codes 256K bytes	
Error Code	Paper out ; power error ;Head Fail	
Paper		
Paper Width	58 +0 -1mm	
Paper roll	OD Max:80mm, ID (Inner Diameter):11.0mm	
Paper thickness	60 to 75 μ m	
Text direction	UP(out side)	
Driver		
SII Windows 7/8 Driver; Linux SDK		
Cutter		
Type of paper cutting Life	Full Cut and Partial Cut (by command)	
	700,000 cuts or more	500,000 cuts or more
Head Life:	100 km or more	70 km or more
Support ESC/POS		
Thermal head temperature Protect detection: 70°C		

Interface		
USB	V2.0 Full Speed	
RS-232	Baud Rate:2400/4800/9600/19200/38400/57600/115200 (Default 115200bps) Handshaking: CTS/RTS or XON/XOFF	
Option	Bluetooth/Ethernet	
Power supply		
Printing	Voltage : DC26V standby current 0.1A Current : approx.1.5A/26V, At 288dots(25%) Continue Printing	Voltage : DC9.5V standby current 0.1A Current : Approx.1.5A /9.5V,MAX.5.3A /9.5V (at 25°C) At 96 dots(25%) Continue Printing
Dimensions		
Size	93x108x162 W x H x D(mm)	
Weight	0.7Kg (not include Paper)	
Structure: Iron Galvanized sheet		
Environmental		
Operating Temp	0 to 50°C	
Storage Temp	-20 to 60°C	
Humidity	20~85% RH (non-condensing)	

2. The functions of control connector

2.1 The function of Bottom:

Line Feed Key: Line Feed –

Press once	One line feed
Hold it	Feeding continuously and stop when release

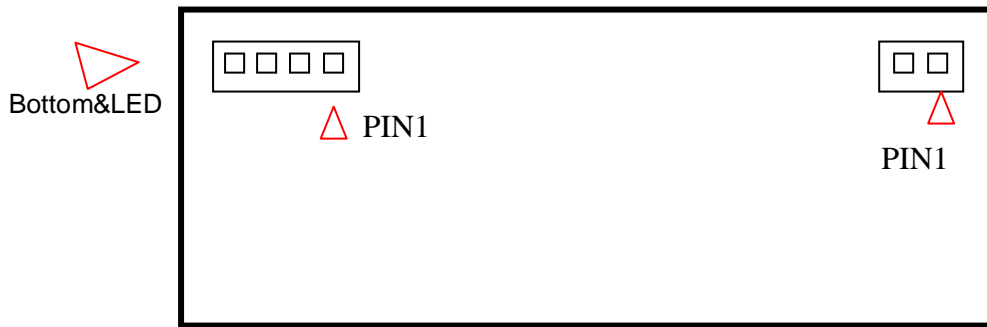
Line Feed Key: Self test

Press once	One line feed
Push and power on	Self-test page will printing out. When printing the end push again it will print specification.

2.2 The function of LED and Buzzer:

LED: Alarm and status indicator

3. Interface



3.1 Power connection

Pin assignment				
1	V+	V+	24V (▽ mark)	N/A
2	GND	GND	Ground	

3.2 RS232C connection

<<HOST>>

Pin assignment				
1	TXD	OUT	Transmitted Data	
2	RXD	IN	Transmitted Data	
3	DSR	OUT	Data Set Ready	
4	GROUND	GND	Ground	

Default setting: 115200, n, 8, 1

Transmission format

baud rate : 115200bps

data bit : 8

stop bit : 1

parity check : none

handshaking : DTR / DSR or XON / XOFF

3.3 USB connection (Micro USB)

4. Command sets

Command	Control code	Description
LF	0Ah	Line Feed
FF	0Ch	Form Feed (search black mark)
CR	0Dh	Carriage return.
ESC+SP+n	1Bh+20h+n, 0<n<255	Sets the character spacing
ESC+'-' +n	1Bh+2Dh+n, 0<n<1	Enable/Disable under line mode
ESC+'_' +n	1Bh+5Fh+n, 0<n<1	Enable/Disable upper line mode.
ESC+'*' +m+n1+n2+data	1Bh+2Ah+m+n1+n2+data	Print the bit image mode
ESC+'(' +B'+n+n1+barcode data	1Bh+28h+42h+n+n1 1 < n < 5	Barcode printing mode. (See Table 4)
ESC+'@'	1Bh+40h	Initialize printer
ESC+'1'+n	1Bh+31h+n, 0<n<255	Set line spacing rate of minimum pitch
ESC+'3'+n	1Bh+33h+n, 0<n<255	Set line spacing (Use in graphic mode)
ESC+'h'+n	1Bh+68h+n, 0<n<6	Select/Cancel n times height
ESC+'R'+n	1Bh+52h+n 0 < n < 6 (Chinese version) 0 < n < 10(Standard version)	Select an international character (see Table 2)
ESC+'w'+n	1Bh+77h+n, 0<n<6	Select/Cancel n times width
ESC+'z'+n	1Bh+7Ah+n, 0<n<6	Select/Cancel n times height and n times width
ESC+'b'+n	1Bh+62h+n, 0 < n < 7	Communication speed setting. (See Table 3)
ESC+'d'+n	1Bh+64h+n, 1 < n < 255	After printing feed n lines
GS+'!	1Dh+21h+n, 0<n<255	Select character size
GS+'*' +n1+n2+n3+data	1Dh+2Ah+n1+n2+n3+data	Define the download bit image.
GS+'/'	1Dh+2Fh	Printing the download bit image.
GS+'B'+n	1Dh+42h+n, 0<n<1	Turn white/black reverse printing mode on/off
GS+'V'+n	1Dh+56h+n	Cut paper

GS+'r'	1Dh+72h	Reject paper
GS+'k'+m+n+dn	1Dh+6Bh+m+n+dn 65 <= m <=73	Barcode printing mode (see table 5)
GS+'h'+n	1Dh+68h+n, 0<n<=255 n=16 (default)	Select the height of the barcode (use in GS h)
GS+'w'+n	1Dh+77h+n, 0<n<=255 n=0 (default)	Select the width of the barcode (use in GS w)
GS+'p'+n	1Dh+70h+n, 0<n<=2 n=2 (default)	Selecting of Printing Position of Bar Code (use in GS p)
GS+'H'+n	1Dh+48h+n, 0<n<=2 n=2 (default)	Selecting of Printing Position of HRI Code (use in GS H)
FS+'q'+n+n1+dn	1Ch+71h+n+n1+dn	Input QR Code Data (position 1)
FS+'p'	1Ch+70h	Print out QR Code
FS+'&'	1Ch+26h	Select Chinese character mode
FS+'.'	1Ch+2Eh	Cancel Chinese character mode
DLE+EOT+n	10h+04h+n, 2=<n<=3 n=2 (default)	Real-time status transmission.
DLE+ENQ+n	10h+05h+n, 1=<n<=2 n=1 (default)	Real-time request to printer.

Table 3: Communication speed setting (RS-232 only)

N	Communication speed
0	9600 bps
1	19200 bps
2	38400 bps
3	57600 bps
4	115200 bps (Default)

Table 4: Barcode prints mode

n	Bar code prints mode	Bar code data length (Barcode data)
1	EAN-8 n1=0	Len=8
2	EAN-13 n1=0	Len=13
3	UPC-A n1=0	Len=12

4	UPC-E $1 < n1 < 9$	Len=6
5	CODE 39 $n1=0$	$1 < \text{Len} < 15$ (first is length define)

Table 5: Barcode prints mode

m	Bar code prints mode	Number(n) (Decimal)	Data (dn) (Decimal)
65	UPC-A	n=11	$48 \leq d \leq 57$
66	UPC-E	n=11	$48 \leq d \leq 57$
67	EAN13	n=12	$48 \leq d \leq 57$
68	EAN8	n=7	$48 \leq d \leq 57$
69	CODE39	$1 \leq n \leq 255$	$32,36,37,43,45,46,47,48$ $\leq d \leq 57; 65 \leq d \leq 90$
70	ITF	$1 \leq n \leq 255$ (even number)	$48 \leq d \leq 57$
71	CODABAR	$1 \leq n \leq 255$	$36,43,45,46,47,48 \leq d$ $\leq 57,58; 65 \leq d \leq 68$
72	CODE93	$1 \leq n \leq 255$	$0 \leq d \leq 127$
73	CODE128	$1 \leq n \leq 255$	$0 \leq d \leq 127$

5. Command code description and example

LF [Print and Line Feed]

Command code

ASCII	LF
Hexadecimal	0A
Decimal	10

Function After printing out skips a line

Example

1. PRINT #1,"AAAAAAAAA";CHR\$(&HA);
2. PRINT #1,"BBBBBBBBB";CHR\$(&HA);

Result

1. AAAAAAAAAA
2. BBBBBBBBBB

FF [Form Feed]

Command code

ASCII	FF
Hexadecimal	0C
Decimal	12

Function Automatically searches for black mark, but FF command must enable black mark detection.

Example

1. PRINT #1,"AAAAAAAAA";CHR\$(&HC);

Result

1. AAAAAAAAAA

CR [Carriage return]

Command code

ASCII	CR
Hexadecimal	0D
Decimal	13

Function Place the print head at start position

Example

2. PRINT #1,"AAAAAAAAA";CHR\$(&HD);
3. PRINT #1,"BBBBBBBBB";CHR\$(&HD);

Result

2. AAAAAAAAAA
3. BBBBBBBBBB

ESC SP n [Set the character space]

Command code

ASCII	ESC	SP	n
Hexadecimal	1B	20	n
Decimal	27	32	n

Defined region $0 \leq n \leq 255$ Function Sets the character spacing for the right side of the character to $[n \cdot 0.125 \text{ mm}]$ **Example**

1. PRINT #1,CHR\$(&H1B);CHR\$(&H20);CHR\$(&H0);CHR\$(&HA);
2. PRINT #1,"ABCDEFGH IJK";CHR\$(&HA);
3. PRINT #1,CHR\$(&H1B);CHR\$(&H20);CHR\$(&H5);CHR\$(&HA);
4. PRINT #1,"ABCDEFGH IJK";CHR\$(&HA);

Result

```

ABCDEFGHIJK
A B C D E F G H I J K

```

ESC - n [Select/cancel under line mode]

Command code

ASCII	ESC	-	n
Hexadecimal	1B	2D	n
Decimal	27	45	n

Defined region $n=0(\text{disable}); n=1(\text{enable})$

Function Print under line

Example

5. PRINT #1,CHR\$(&H1B);CHR\$(&H2D);"0";"AA";
6. PRINT #1,CHR\$(&H1B);CHR\$(&H2D);"1";"BB";
7. PRINT #1,CHR\$(&H1B);CHR\$(&H2D);"0";"CC";
8. PRINT #1,CHR\$(&H1B);CHR\$(&H2D);"1";"DD";CHR\$(&HA);
9. PRINT #1,CHR\$(&H1B);CHR\$(&H2D);"0";"EE";
10. PRINT #1,CHR\$(&H1B);CHR\$(&H2D);"1";"FF";
11. PRINT #1,CHR\$(&H1B);CHR\$(&H2D);"0";"GG";
12. PRINT #1,CHR\$(&H1B);CHR\$(&H2D);"1";"HH";CHR\$(&HA);

Result

```

AABBCCDD
EEFFGGHH

```

ESC _ n [Select/cancel upper line mode]

Command code

ASCII	ESC	-	n
Hexadecimal	1B	5F	n
Decimal	27	95	n

Defined region n=0(disable);n=1(enable)

Function Print upper line

Example

```
13. PRINT #1,CHR$(&H1B);CHR$(&H5F);"0";"AA";
14. PRINT #1,CHR$(&H1B);CHR$(&H5F);"1";"BB";
15. PRINT #1,CHR$(&H1B);CHR$(&H5F);"0";"CC";
16. PRINT #1,CHR$(&H1B);CHR$(&H5F);"1";"DD";CHR$(&HA);
17. PRINT #1,CHR$(&H1B);CHR$(&H5F);"0";"EE";
18. PRINT #1,CHR$(&H1B);CHR$(&H5F);"1";"FF";
19. PRINT #1,CHR$(&H1B);CHR$(&H5F);"0";"GG";
20. PRINT #1,CHR$(&H1B);CHR$(&H5F);"1";"HH";CHR$(&HA);
```

Result

AABBCCDD

EEFFGGHH

ESC * m n1 n2 d1...dk [Print the bit image mode]

Command code

ASCII	ESC	*	m	n1	n2	d1.....dk
Hexadecimal	1B	2A	m	n1	n2	d1.....dk
Decimal	27	42	m	n1	n2	d1.....dk

Defined region m=0h,01h,20h,21h

0 <= n1 <= 255 ; 0 <= n2 <= 1

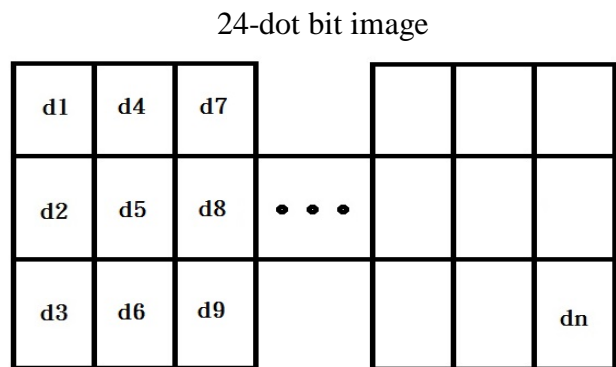
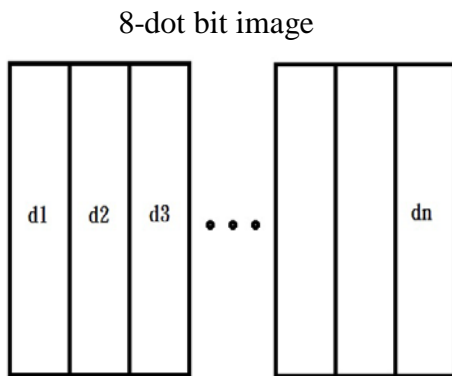
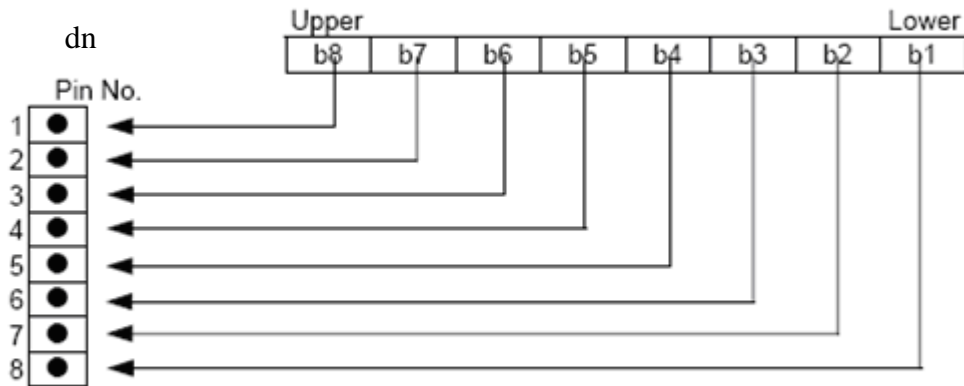
m=0h,1h ; k=n1+(255xn2)

m=20h,21h; k=(n1+(255xn2))x3; k:data length,n1:low byte
n2:high byte

If use single density mode print dot "d1" next is space dot and next is print dot "d2".

m(hex)	mode	Vertical Direction		Horizontal Direction	
		Dots	Dot density	Dot density	Max. dots
0	8-dot single density	8	67 DPI	101 DPI	192
1	8-dot double density	8	67 DPI	203 DPI	384
20	24-dot single density	24	203 DPI	101 DPI	192
21	24-dot double density	24	203 DPI	203 DPI	384

Function Print bit image mode



ESC (B n n1 barcode data [Print barcode mode]

Command code

ASCII	ESC	(	B	n	n1	barcode data
Hexadecimal	1B	28	42	n	n1	barcode data
Decimal	27	40	66	n	n1	barcode data

Defined region 1 <= n <= 5 , n1 value see table 4

Example

1. PRINT#1,CHR\$(&H1B);CHR\$(&H28);CHR\$(&H42);CHR\$(1);CHR\$(0);"20123451";CHR\$(&HA);
2. PRINT#1,CHR\$(&H1B);CHR\$(&H28);CHR\$(&H42);CHR\$(2);CHR\$(0);"5";"012345678900";CHR\$(&HA);
3. PRINT#1,CHR\$(&H1B);CHR\$(&H28);CHR\$(&H42);CHR\$(3);CHR\$(0);"061297027804";CHR\$(&HA);
4. PRINT#1,CHR\$(&H1B);CHR\$(&H28);CHR\$(&H42);CHR\$(4);CHR\$(0);"1";"078349";CHR\$(&HA);
5. PRINT#1,CHR\$(&H1B);CHR\$(&H28);CHR\$(&H42);CHR\$(5);CHR\$(0);CHR\$(8);"TEST8052";CHR\$(&HA);
6. PRINT#1,CHR\$(&H1B);CHR\$(&H28);CHR\$(&H42);CHR\$(1);CHR\$(1);"2012345";CHR\$(&HA);
7. PRINT#1,CHR\$(&H1B);CHR\$(&H28);CHR\$(&H42);CHR\$(2);CHR\$(1);"5";"01234567890";CHR\$(&HA);
8. PRINT#1,CHR\$(&H1B);CHR\$(&H28);CHR\$(&H42);CHR\$(3);CHR\$(1);"06129702780";CHR\$(&HA);
9. PRINT#1,CHR\$(&H1B);CHR\$(&H28);CHR\$(&H42);CHR\$(5);CHR\$(1);CHR\$(8);"TEST8052";CHR\$(&HA);

Result

1. Set the barcode is EAN-8 data 20123451
2. Set the barcode is ENA-13 data 012345678900
3. Set the barcode is UPC-A data 0612978400
4. Set the barcode is UPC-E data 078349
5. Set the barcode is CODE 39 data TEST8052
6. Set the barcode is EAN-8 data 2012345 + check digit '1'
7. Set the barcode is ENA-13 data 01234567890 + check digit '0'
8. Set the barcode is UPC-A data 0612902780 + check digit '4'
9. Set the barcode is CODE 39 data TEST8052 + check digit '+' + check digit 'T'

ESC @ [Initialize printer]

Command code

ASCII	ESC	@
Hexadecimal	1B	40
Decimal	27	64

Example

```
PRINT #1,CHR$(&H1B);"@";CHR$(&HA);
```

Result

Reset printer parameter to default value

ESC 1 n [Set line spacing (use in graphic mode)]

Command code

ASCII	ESC	1	n
Hexadecimal	1B	31	n
Decimal	27	49	n

Defined region 0 <= n <= 255

Example

1. PRINT #1,CHR\$(&H1B);"1";CHR\$(3);
2. PRINT #1,"AAAAA";CHR\$(&HA);
3. PRINT #1,"BBBBB";CHR\$(&HA);

Result

```
AAAAA
      (3 dot line space)
BBBBB
```

ESC 3 n [Set line spacing rate of minimum pitch]

Command code

ASCII	ESC	1	n
Hexadecimal	1B	31	n
Decimal	27	49	n

Defined region $0 \leq n \leq 255$ **Example**

```
1. PRINT #1,CHR$(&H1B);"3";CHR$(16);
```

Result

Use in graphic mode

ESC h n [Select n times height]

Command code

ASCII	ESC	h	n
Hexadecimal	1B	68	n
Decimal	27	104	n

Defined region $0 \leq n \leq 5$ **Example**

```
1. PRINT #1,CHR$(&H1B);"h";CHR$(0);
2. PRINT #1,"AAAAA";CHR$(&HA);
3. PRINT #1,CHR$(&H1B);"h";CHR$(1);
4. PRINT #1,"AAAAA";CHR$(&HA);
5. PRINT #1,CHR$(&H1B);"h";CHR$(2);
6. PRINT #1,"AAAAA";CHR$(&HA);
```

Result

```
AAAAA
AAAAA
AAAAA
```

ESC w n [Select n times width]

Command code

ASCII	ESC	w	n
Hexadecimal	1B	77	n
Decimal	27	119	n

Defined region $0 \leq n \leq 5$ **Example**

```
1. PRINT #1,CHR$(&H1B);"w";CHR$(0);
2. PRINT #1,"AAAAA";CHR$(&HA);
3. PRINT #1,CHR$(&H1B);"w";CHR$(1);
4. PRINT #1,"AAAAA";CHR$(&HA);
5. PRINT #1,CHR$(&H1B);"w";CHR$(2);
6. PRINT #1,"AAAAA";CHR$(&HA);
```


Result

```

AAAAA
AAAAA
AAAAA

```

ESC z n [Select n times height and n times width]

Command code

ASCII	ESC	z	n
Hexadecimal	1B	7A	n
Decimal	27	122	n

Defined region $0 \leq n \leq 5$ **Example**

1. PRINT #1,CHR\$(&H1B);"z";CHR\$(0);
2. PRINT #1,"AAAAA";CHR\$(&HA);
3. PRINT #1,CHR\$(&H1B);"z";CHR\$(1);
4. PRINT #1,"AAAAA";CHR\$(&HA);
5. PRINT #1,CHR\$(&H1B);"z";CHR\$(2);
6. PRINT #1,"AAAAA";CHR\$(&HA);

Result

```

AAAAA
AAAAA
AAAAA

```

ESC b n [Communication speed setting]

Command code

ASCII	ESC	b	n
Hexadecimal	1B	62	n
Decimal	27	98	n

Defined region $0 \leq n \leq 4$ **Example**

1. PRINT #1,CHR\$(&H1B);"b";CHR\$(0);
2. PRINT #1,"AAAAA";CHR\$(&HA);
3. PRINT #1,CHR\$(&H1B);"b";CHR\$(1);
4. PRINT #1,"AAAAA";CHR\$(&HA);
5. PRINT #1,CHR\$(&H1B);"b";CHR\$(2);
6. PRINT #1,"AAAAA";CHR\$(&HA);

Result

```

(baud rate 9600bps)
AAAAA
(baud rate 19200bps)
AAAAA
(baud rate 38400bps)
AAAAA

```

ESC c 3 n [Enable/disable paper sensor]

Command code

ASCII	ESC	c	3	n
Hexadecimal	1B	63	33	n
Decimal	27	99	51	n

Defined region n=0(disable); n=1(enable)

Example

1. PRINT #1,CHR\$(&H1B);"c";"3";CHR\$(0);
2. PRINT #1,"AAAAA";CHR\$(&HA);
3. PRINT #1,CHR\$(&H1B);"c";"3";CHR\$(1);
4. PRINT #1,"BBBBB";CHR\$(&HA);

Result

(Paper out sensor off)

AAAAA

(Paper out sensor on)

BBBBB

ESC d n [after printing feed n lines]

Command code

ASCII	ESC	d	n
Hexadecimal	1B	64	n
Decimal	27	100	n

Defined region 1 <= n <= 255

Example

1. PRINT #1,"AAAAA";CHR\$(&HA);
2. PRINT #1,CHR\$(&H1B);"d";CHR\$(15);
3. PRINT #1,"BBBBB";CHR\$(&HA);

Result

AAAAA

(Feed 15 dot line)

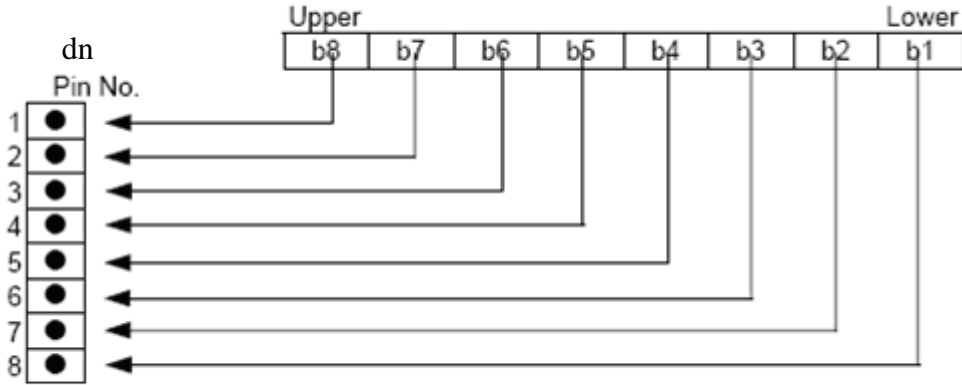
BBBBB

GS * n1 n2 n3 d1...dk [Define download bit image data]

Command code

ASCII	GS	*	n1	n2	n3	d1.....dk
Hexadecimal	1D	2A	n1	n2	n3	d1.....dk
Decimal	29	42	n1	n2	n3	d1.....dk

Defined region n1 = 128(80h)Low byte ; n2 = 1(01h)High byte
n3 = 1~199(1h~C7h) ; d1~dk Total : 8064bytes

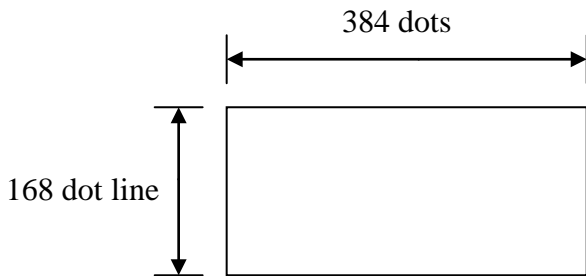


384 dots

21	d1	d2	d3	d4	d5	.....	d380	d381	d382	d383	d384
	d385	d386	d387	d388	d389	.....	d764	d765	d766	d767	d768
										
	d7297	d7298	d7299	d7300	d7301	.....	d7676	d7677	d7678	d7679	d7680
	d7681	d7682	d7683	d7684	d7685	.....	d8060	d8061	d8062	d8063	d8064

The Logo graphic print interval is 384 dots x168 dot line (Figure 1), the format of data storage is 384x21 bytes.

n1, n2 is for fixed data length, and the data length is 384 translated into hex code for the 0180h high byte into n1(n1 = 80h), so the low byte into n2(n2 = 01h), n3 conversion value of the fixed value 21 hex code is n3 = 15h, d1 ~ dk is 1 ~ 8064bytes of data, image data loaded as a block all at once.



(Figure 1)

GS / m n [Printing download bit image data]

Command code

ASCII	GS	/	m	n
Hexadecimal	1D	2F	m	n
Decimal	29	47	m	n

Defined region m=1~199 ; 0 <= n <= 21

n=0 print area1, n=1 print area2, n=2 print area3, n=3 print all area.(Figure 2)

Example

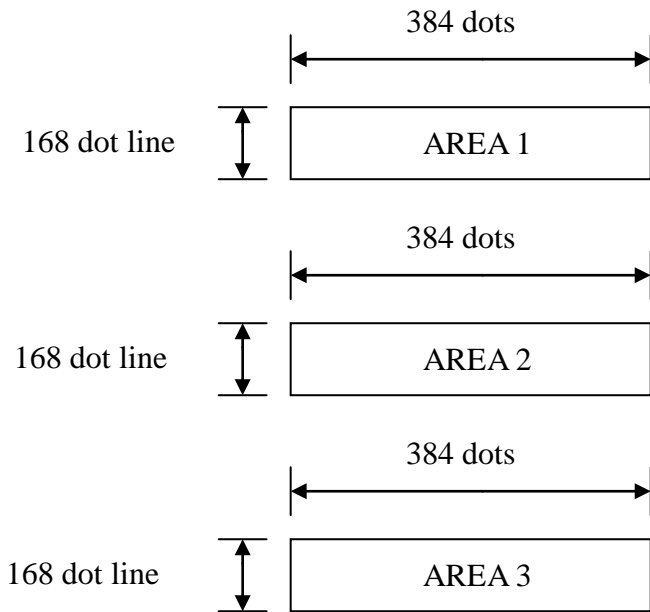
1. PRINT #1,CHR\$(&H1D);"/";CHR\$(1);CHR\$(21);CHR\$(&HA);
2. PRINT #1,CHR\$(&H1D);"/";CHR\$(2);CHR\$(21);CHR\$(&HA);
3. PRINT #1,CHR\$(&H1D);"/";CHR\$(3);CHR\$(21);CHR\$(&HA);

Result

Print download bit image data AREA 1.

Print download bit image data AREA 2.

Print download bit image data AREA 3.



(Figure 2)

GS B n [Turn white/black reverse printing mode on/off]

Command code

ASCII	GS	B	n
Hexadecimal	1D	42	n
Decimal	29	66	n

Defined region n=0(turn off); n=1(turn on)

Example

1. PRINT #1,CHR\$(&H1D);"B";CHR\$(0);
2. PRINT #1,"AAAAA";CHR\$(&HA);
3. PRINT #1,CHR\$(&H1B);"B";CHR\$(1);
4. PRINT #1,"AAAAA";CHR\$(&HA);

Result

```
AAAAA
AAAAA
```

GS V 0 [Cutter paper]

Command code

ASCII	GS	V	n
Hexadecimal	1D	56	00
Decimal	29	86	00

Defined region n=0(Partial Cut); n=1(Full Cut)

Example

1. PRINT #1,"AAAAA";CHR\$(&HA);
2. PRINT #1,CHR\$(&H1D);"V";CHR\$(0);CHR\$(&HA);
3. PRINT #1,"BBBBB";CHR\$(&HA);

Result

AAAAA

(Cutter paper)

BBBBB

GS k m n dn[Print barcode]

Command code

ASCII	GS	k	m	n	dn
Hexadecimal	1D	6B	m	n	dn
Decimal	29	107	m	n	dn

65 <= m <= 73 (Decimal)

A check digit is added and printed automatically.

When code 128 (m=73) is used:

Specific character	Transmit data		
	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	123,53

Example

1. PRINT#1,CHR\$(&H1D);CHR\$(&H6B);CHR\$(&H41);CHR\$(11);"06129702780";CHR\$(&HA);
2. PRINT#1,CHR\$(&H1D);CHR\$(&H6B);CHR\$(&H42);CHR\$(11);"01200000456";CHR\$(&HA);
3. PRINT#1,CHR\$(&H1D);CHR\$(&H6B);CHR\$(&H43);CHR\$(12);"501234567890";CHR\$(&HA);
4. PRINT#1,CHR\$(&H1D);CHR\$(&H6B);CHR\$(&H44);CHR\$(7);"2012345";CHR\$(&HA);
5. PRINT#1,CHR\$(&H1D);CHR\$(&H6B);CHR\$(&H45);CHR\$(10);"TEST 12345";CHR\$(&HA);
6. PRINT#1,CHR\$(&H1D);CHR\$(&H6B);CHR\$(&H46);CHR\$(8);"12345670";CHR\$(&HA);
7. PRINT#1,CHR\$(&H1D);CHR\$(&H6B);CHR\$(&H47);CHR\$(7);"A40156B";CHR\$(&HA);
8. PRINT#1,CHR\$(&H1D);CHR\$(&H6B);CHR\$(&H48);CHR\$(6);"TEST93";CHR\$(&HA);
9. PRINT#1,CHR\$(&H1D);CHR\$(&H6B);CHR\$(&H49);CHR\$(10);CHR\$(&H7B);CHR\$(&H42);"No.";CHR\$(&H7B);CHR\$(&H43);CHR\$(12);CHR\$(34);CHR\$(56);CHR\$(&HA);

Result

1. Set the barcode is UPC-A data 061297027804
2. Set the barcode is UPC-E data 012456
3. Set the barcode is EAN-13 data 5012345678900
4. Set the barcode is EAN-8 data 20123451
5. Set the barcode is CODE 39 data TEST 12345 + check digit 'o'
6. Set the barcode is ITF data 12345670
7. Set the barcode is CODABAR data A40156B
8. Set the barcode is CODE 93 data TEST93
9. Set the barcode is CODE 128 data No.123456

GS h n [Select barcode height]

Command code

ASCII	GS	h	n
Hexadecimal	1D	68	n
Decimal	29	104	n

1 <= n <= 255

Example

1. PRINT #1,CHR\$(&H1D);CHR\$(&H68);CHR\$(20);CHR\$(&HA);

GS w n [Select barcode width]

Command code

ASCII	GS	w	n
Hexadecimal	1D	77	n
Decimal	29	119	n

0 <= n <= 255

Example

1. PRINT #1,CHR\$(&H1D);CHR\$(&H77);CHR\$(1);CHR\$(&HA);

GS H n [Selecting of Printing Position of HRI Code]

Command code

ASCII	GS	H	n
Hexadecimal	1D	48	n
Decimal	29	72	n

0 <= n <= 2

n(hex)	Printing Position
0	No print

1	Above the barcode
2	below the barcode

Example

```
1. PRINT #1,CHR$(&H1D);CHR$(&H48);CHR$(1);CHR$(&HA);
```

FS & [Select Chinese character mode]

Command code

ASCII	FS	&
Hexadecimal	1C	26
Decimal	28	38

Example

```
1. PRINT #1,CHR$(&H1C);"&";CHR$(&HA);
2. PRINT #1,"公司";CHR$(&HA);
```

Result

公司

FS . [Cancel Chinese character mode]

Command code

ASCII	FS	.
Hexadecimal	1C	2E
Decimal	28	46

Example

```
1. PRINT #1,CHR$(&H1C);".";CHR$(&HA);
2. PRINT #1,"公司";CHR$(&HA);
```

Result

α½¥q

FS q [Input 2D barcode Data]

Command code

ASCII	FS	q.	n	n1	d1... dn
Hexadecimal	1C	71	n	n1	d1... dn
Decimal	28	113	n	n1	d1... dn

n 00(Area1) or 01(Area2)

n1 mask 0~7

FS Z [Print 2D barcode]

Command code

ASCII	FS	p.
Hexadecimal	1C	70
Decimal	28	112

QR-CODE :

DLE EOT n [Real-time status transmission]

Command code

ASCII	DLE	EOT	n
Hexadecimal	10	04	n
Decimal	16	04	n

Defined region 2 <= n <= 3

n = 2: Transmit online status

n = 3: Transmit error status

Transmit online status :

The main purpose of this command is to check the printer which is in progress or stop state in normal states the return value of bit 3, the bit shows 1 when the printer is in progress,0 means (Stand by) stop State.

Bit	off/on	Hex	Decimal	Function
0	off	00	0	Not used. Fixed to Off
1	off	00	0	Cutter is ready
	on	01	1	Cutter is not in position
2	off	00	0	Cover is closed
	on	04	4	Cover is open
3	off	00	0	Printing is being stopped
	on	08	8	Data printing
4	off	00	0	Head temperature normal
	on	10	16	Head over temperature
5	off	00	0	Paper is ready
	on	20	32	No paper-end stop
6	off	00	0	Buffer ready
	on	40	64	Buffer full
7	off	00	0	Paper is ready
	on	80	128	Near end detect

Transmit error status:

The main purpose of this command is to check if the control board in error, check the return value

of bit 7, the bit shows 1 when control board detects an abnormal condition, 0 means the control board normal.

Bit	off/on	Hex	Decimal	Function
0	off	00	0	Not used. Fixed to Off
1	off	00	0	Not used. Fixed to Off
2	off	00	0	Not used. Fixed to Off
3	off	00	0	No error
	on	08	8	Paper out
4	off	00	0	No error
	on	10	16	Roller error
5	off	00	0	No error
	on	20	32	Cutter error
6	off	00	0	No error
	on	40	64	Head error
7	off	00	0	No error
	on	80	128	Error occurred

DLE ENQ n [Real-time request to printer]

Command code

ASCII	DLE	ENQ	n
Hexadecimal	10	05	n
Decimal	16	05	n

Defined region 1 <= n <= 2

n is 1 or 2, you can choose one result is the same. Check XON(11H)/XOFF(13H):

The main purpose of this command is to check if the print buffer is full in normal state, it returned 13H if the buffer is full, or returned 11H when the states are normal.

機構尺寸:

