

THERMAL PRINTER

ESC Commands Manual

THERMAL PRINTER - ESC COMMANDS MANUAL



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1. COMMAND LIST

SUMMARY

ТҮРЕ	COMMAND (HEX)	DESCRIPTION
MISCELLANEOUS COMMANDS		
	0x1B 0x40	Initialize Printer
	0x1D 0x28 0x4B 0x02 0x00 0x31 M	Select Print Density
CHARACTER COMMANDS		
	0x1B 0x20 N	Set Right-Side Character Spacing
	0x1B 0x21 N	Select Print Modes
	0x1B 0x45 N	Emphasized mode(BOLD) on/Off
	0x1B 0x4D N	Select Character Font
	0x1B 0x2D N	Select Underline
	0x1D 0x42 N	Turn Black/White Reverse Print Mode on/off
	0x1D 0x21 N	Select Character Size
DRINT DOCITION CONTRACTOR		
PRINT POSITION COMMANDS	000	Having what Tab
	0x09	Horizontal Tab
	0x1D 0x4C nL nH	Set Left Margin
	0x1D 0x57 nL nH	Set Print Area Width
	0x1B 0x61 N	Select Justification
	0x1B 0x24 nL nH	Set Absolute Print Position
	0x1B 0x5C nL nH	Set Relative Print Position
LINE SPACING COMMANDS		
	0X1B 0X33 N	Set Line Spacing
DDINIT COMMANDS		
PRINT COMMANDS	0.04	District Conference
	0x0A 0x0C	Print and Line Feed Print and feed label to print starting position (on label)
	0x1B 0x4A N	Print and Feed Paper
	0x1B 0x64 N	Print and Feed N Lines
IMAGE COMMANDS	0.40 0.24 M m m	Colort Dit Import Manda
	0x1B 0x2A M nL nH	Select Bit-Image Mode
	0x1C 0x70 N M	Print NV Bit Image
	0x1C 0x71 N	Define NV Bit Image
	0x1D 0x76 0x30 M xL xH yL yH	Print Raster Bit Image
	0x1B 0x2B N xL xH yL yH	Save Indexed Based Image
	0x1B 0x2C N M	Print Indexed Based Image
BARCODE COMMANDS		
	0x1D 0x48 N	Select Print Position of HRI Characters
	0x1D 0x66 N	Select Font for HRI Characters
	0x1D 0x68 N	Set bar Code Height



	0x1D 0x6B M	Print Barcode
	0x1D 0x77 N	Set Barcode Width
STATUS COMMANDS		
	0x1D 0x72 N	Transmit Status
CUSTOMIZE COMMANDS		
	0x1D 0x28 0x45 0x04 0x00 0x05 0x74	Auto-Off Timer Setting
	nL nH	
	0x1D 0x28 0x45 0x02 0x00 0x06 0x74	Transmit customized settings
	0x1B 0x68	Temperature Response
	0x1B 0x79	Voltage Response
	0x1D 0x28 0x45 0x04 0x00 0x0D	Set Bluetooth pairing pin
	d1d2d3d4	
	0x1D 0x28 0x45 0x00 0x00 0x0E data	Set Bluetooth discoverability mode

1.1 COMMAND DESCRIPTIONS

EXEL thermal printer control board use ESC/POS command set. The printing command is decrypted as followed format:

COMMAND (Hex Forma	t)	FUNCTION
FORMAT	ASCII	LIST OF ASCII CHARACTERS
	HEXA DECIMAL	LIST OF HEXADECIMAL CHARACTERS
DESCRIPTION:		
EXAMPLE		Command Use Example
NOTES:		

If user is using Terminal.exe software then to give commands in hex format, user needs to use '\$'symbol to specify the hex codes. Example:- To initialize printer the command is 0x1B 0x40. In Terminal software user should give command as \$1B\$40 without any space between character codes.

1.1.1 MISCELLANEOUS COMMANDS

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0x1D 0x28 0x4B 0x02 0x00 0x31 M	Select Print Density



FORMAT ASCII GS (K pL pH fn M

HEXA DECIMAL 0x1D 0x28 0x4B 0x02 0x00 0x31 M

DESCRIPTION: The print density is tuned by how much of power is supplied to the head.

EXAMPLE Send 0x1D 0x28 0x4B 0x02 0x00 0x31 0x06

This will set print density max print density. I,e 130%

NOTES: $0x00 \le M \le 0x06$ and $0xFA \le M \le 0xFF$

1.1.2 CHARACTER COMMANDS

FORMAT
ASCII
ESC SP n
HEXA DECIMAL
Ox1B 0x20 N

DESCRIPTION: Sets the right-side character spacing to n vertical unit.

EXAMPLE 0x1B 0x20 0X0A

Sets right side gap of a character to 10 dots.

NOTES: Here value of N is in dots.

The setting of this command is effective until ESC@ is executed, the printer is reset, or the power is turned off.

0x1B 0x21 N		Select Print Modes	
FORMAT	ASCII	ESC! N	
	HEXA DECIMAL	0x1B 0x21 N	

DESCRIPTION: Selects the character font and styles.

N (bit format)	ON value	OFF value	Functionality
O th	1	0	Font selection
1 st	NA	NA	-
2 nd	NA	NA	-
3rd	1	0	Emphasize mode(Bold)
4 th	1	0	Double height
5 th	1	0	Double width
6 th	NA	NA	-
7 th	1	0	Under line mode

NA = Not assigned.

EXAMPLE 0x1B 0x21 0x38

Sets text to double height, double width and emphasized

mode.

NOTES: The setting of this command is effective until ESC@ is executed, the printer is reset, or the power is turned off.

0x1B 0x45 N		Emphasized mode(BOLD) on/0ff	
FORMAT	ASCII	ESC E N	
	HEXA DECIMAL	0x1B 0x45 N	
DESCRIPTION: Turns emphasized mode on or off. Here N is in hex format.			



	N	Functionality	
_	0x00	When the LSB of N is 0, emphasized mode is turned off.	
0x01 When the LSB of N is 1, emphasized mode is turned on.		When the LSB of N is 1, emphasized mode is turned on.	

EXAMPLE 0x1B 0x45 0x01

Sets text sent to BOLD.

NOTES: The setting of this command is effective until ESC@ is executed, the printer is reset, or the power is turned off.

Ox1B Ox4D N Select Character Font

FORMAT ASCII ESC M N

HEXA DECIMAL 0x1B 0x4D N

DESCRIPTION: Sets font type depending on the value of N Here N is in hex format.

N = 0x00 or 0x30 -> Font A (FONT 12x24) N = 0x01 or 0x31 -> Font B (FONT 8x16)

EXAMPLE 0x1B 0x4D 0x31

Sets text font type to FONT B.

NOTES: The setting of this command is effective until ESC@ is executed, the printer is reset, or the power is turned off.

0x1B 0x2D N Select Underline

FORMAT ASCII ESC – N

HEXA DECIMAL 0x1B 0x2D N

DESCRIPTION: Sets the underline mode using N. Here N is in hex format.

N	Functionality
0x00 or 0x30	Underline mode off
0x01 or 0x31	1-dot line underline mode
0x02 or 0x32	2-dot line underline mode

EXAMPLE 0x1B 0x2D 0x02

Sets the text to 2-dot underline mode

NOTES:

Character size affects the size of underline mode of that character.

The setting of this command is effective until ESC@ is executed, the printer is reset, or the power is turned off.

0x1D 0x42 N Turn Black/White Reverse Print Mode on/off

FORMAT ASCII GS B N
HEXA DECIMAL 0x1D 0x42 N

DESCRIPTION: Turns white/black reverse print mode on or off. Here N is in hex format.

N	Functionality
0x00	When the LSB of N is 0, white/black reverse print mode is turned off.
0x01	When the LSB of N is 1, white/black reverse print mode is turned on.



EXAMPLE 0x1D 0x42 0x01

Sets the following characters to reverse mode.

NOTES:

The setting of this command is effective until ESC@ is executed, the printer is reset, or the power is turned off.

0x1D 0x21 N **Select Character Size**

FORMAT ASCII GS!N **HEXA DECIMAL** 0x1D 0x21 N

DESCRIPTION: Selects the character height and width as below. Here N is in hex format.

N	Bit 6	Bit 5	Bit 4	Width
0x00	0	0	0	Normal
0x10	0	0	1	Normal x 2
0x20	0	1	0	Normal x 3
0x30	0	1	1	Normal x 4
0x40	1	0	0	Normal x 5
0x50	1	0	1	Normal x 6
0x60	1	1	0	Normal x 7
0x70	1	1	1	Normal x 8

N	Bit 2	Bit 1	Bit 0	Height
0x00	0	0	0	Normal
0x01	0	0	1	Normal x 2
0x02	0	1	0	Normal x 3
0x03	0	1	1	Normal x 4
0x04	1	0	0	Normal x 5
0x05	1	0	1	Normal x 6
0x06	1	1	0	Normal x 7
0x07	1	1	1	Normal x 8

EXAMPLE 0x1D 0x21 0x57

Sets the character size as below.

width = normal width x 6 and height = normal height x 8.

NOTES: The setting of this command is effective until ESC@ is executed, the printer is reset, or the power is turned off.

1.1.3 PRINT POSITION COMMANDS

0x09		Horizontal Tab
FORMAT	ASCII	HT
	HEXA DECIMAL	0x09
DESCRIPTION: Move	es the print position to the next horiz	ontal tab position.
EXAMPLE		0x09
		Sets print position to next horizontal tab position.
NOTES: None.		

0x1D 0x4C nL nH		Set Left Margin
FORMAT	ASCII	GS L nL nH
	HEXA DECIMAL	0x1D 0x4c nL nH
DESCRIPTION: The con	nmand sets the left side margin s	pecified by nL and nH.

 $0 \le nL \le 255, 0 \le nH \le 255$

EXAMPLE 0x1D 0x4c 0x64 0x00

Sets the left margin to 100 dots.

NOTES: The setting of this command is effective until ESC@ is executed, the printer is reset, or the power is turned off. If the setting exceeds the printable area, the left margin is automatically set to the maximum value of the printable area.



0x1D 0x57 nL nH Set Print Area Width

FORMAT ASCII GS W nL nH

HEXA DECIMAL 0x1D 0x57 nL nH

DESCRIPTION: The command sets width of the print area specified by nL and nH.

 $0 \le nL \le 255, 0 \le nH \le 255$

EXAMPLE 0x1D 0x57 0x64 0x00

Sets print area to 100 dots.

NOTES: The setting of this command is effective until ESC@ is executed, the printer is reset, or the power is turned off.

0x1B 0x61 N Select Justification

FORMAT ASCII ESC a N

HEXA DECIMAL 0x1B 0x61 N

DESCRIPTION: The command aligns all the data in one line of the selected layout. Here N is in hex format. N is in hex format.

N	Justification
0x00 or 0x30	Left justification
0x01 or 0x31	Centered
0x02 or 0x32	Right justification

EXAMPLE 0x1B 0x61 0x01

Sets data alignment to centere position.

NOTES: The setting of this command is effective until ESC@ is executed, the printer is reset, or the power is turned off.

0x1B 0x24 nL nH Set Absolute Print Position

DESCRIPTION: Moves the print position from the left edge of the print area to the specified value.

FORMAT ASCII ESC \$ nL nH

HEXA DECIMAL 0x1B 0x24 nL nH

 $0 \le nL \le 255, 0 \le nH \le 255$

EXAMPLE 0x1B 0x24 0x96 0x00

Sets print position to 150th dot from left edge.

NOTES: The setting of this command is effective until ESC@ is executed, the printer is reset, or the power is turned off.

0x1B 0x5C nL nH Set Relative Print Position

FORMAT ASCII ESC \ nL nH

HEXA DECIMAL 0x1B 0x5C nL nH

DESCRIPTION: Moves the print position from the current position to the specified value.

 $0 \le nL \le 255, 0 \le nH \le 255$

EXAMPLE 0x1B 0x5C 0x64 0x00

Sets print position to 100th dot from current position.

NOTES: The setting of this command is effective until ESC@ is executed, the printer is reset, or the power is turned off.



A positive number specifies movement to the right, and a negative number specifies movement to the left.

1.1.4 LINE SPACING COMMAND

0X1B 0X33 N		Set Line Spacing	
FORMAT	ASCII	ESC 3 N	
	HEXA DECIMAL	0X1B 0X33 N	
DESCRIPTION: Sets the line spacing to N lines. N is in hex format and 0 ≤ N ≤ 255			
EXAMPLE		0X1B 0X33 0x30	
		Sets 48 line spacing.	
NOTES: The setting of this command is effective until ESC@ is executed, the printer is reset, or the power is turned off.			

1.1.5 PRINT COMMANDS

0x0A		Print and Line Feed	
FORMAT	ASCII	LF	
	HEXA DECIMAL	0x0A	
DESCRIPTION: Prints the data in the print buffer and feeds one line, based on the current line spacing.			
EXAMPLE		0x0A	
		Feeds one line after printing.	
NOTES: None.			

0x0C		Print and feed label to print starting position (on label)
FORMAT	ASCII	FF
	HEXA DECIMAL	0x0C
DESCRIPTION: Prints the data in the print buffer and feeds paper to the print starting position on the next label.		
EXAMPLE		0x0C
		Prints data in print buffer and feeds paper for certain length
		to detect the mark.
NOTES: None.		

0x1B 0x4A N		Print and Feed Paper
FORMAT	ASCII	ESC J N
	HEXA DECIMAL	0x1B 0x4A N
DESCRIPTION: Prints the data in the print buffer and feeds the paper to N dots. N is in hex format and $0 \le N \le 255$.		ds the paper to N dots. N is in hex format and $0 \le N \le 255$.
EXAMPLE		0x1B 0x4A 0x0A
		Prints data in print buffer and feeds 10 dots.
NOTES: None.		



0x1B 0x64 N		Print and Feed N Lines
FORMAT	ASCII	ESC d N
	HEXA DECIMAL	0x1B 0x64 N
DESCRIPTION: Prints t	he data in the print buffer and fee	eds the paper to N specified lines. N is in hex format and $0 \le N \le 255$.
EXAMPLE		0x1B 0x64 0x0A
		Prints data in print buffer and feeds 10 lines.
NOTES: None.		

1.1.6 IMAGE COMMANDS

0x1B 0x2A M nL nH		Select Bit-Image Mode	
FORMAT	ASCII	ESC * M nL nH	
	HEXV DECIMVI	0v1B 0v2A M pl pH	

DESCRIPTION: Stores the bit image data in the print buffer using the mode specified by M as follows. Here M is in hex format.

M	Mode	Density	Data length
0x00	8 dot single-density	Single-density	nL + nH*256
0x01	8 dot double density	Double density	nL + nH*256
0x20	24 dot single-density	Single-density	(nL + nH*256) * 3
0x21	24 dot double density	Double density	(nL + nH*256) * 3

EXAMPLE

Command: 0x1B 0x2A 0x00 0x08 0x00

Data: 0x7f 0xff 0xc4 0xc4 0xc4 0xc4 0xff 0x7f

This will store image into print buffer with mode 0.

NOTES: None.

0x1C 0x70 N M		Print NV Bit Image	
FORMAT	ASCII	FS p N M	
	HEXA DECIMAL	0x1C 0x70 N M	

DESCRIPTION: Prints NV bit image N with mode specified by M. Here M is in hex format.

M	Mode
0x00 or 0x30	Normal
0x01 or 0x31	Double-width
0x02 or 0x32	Double-height
0x03 or 0x33	Quadruple

EXAMPLE 0x1C 0x70 0x01 0x02

Command will print $\mathbf{1}^{\text{st}}$ NV image stored in flash in mode2

format.

NOTES: Command is ignored if no NV image for the specified N value.

0x1C 0x71 N Define NV Bit Image



FORMAT ASCII FS q N

HEXA DECIMAL 0x1C 0x71 N

DESCRIPTION: Defines the N number of NV bit images in the NV graphics area.

The complete command for defining NV image is 0x1C 0x71 N [xL xH yL yH d1...dk]1...[xL xH yL yH d1...dk]N

Command code	Description	
0x1C 0x71	Define NV image	
N	Total number of NV images to define	
xL xH	Width of an NV image in bytes (xL + xH*256)	
yL yH	Height of an NV image in bytes (yL + yH*256)	
d1dk	Data bytes to define an NV image	
[xL xH yL yH d1dk]N	Set of parameters for Nth NV image	

EXAMPLE 0x1c 0x71 0x01 0x01 0x00 0x01 0x00 0xef 0x88 0x88 0x88

0x88 0xef 0x00 0x00

Command will define one NV image into flash memory.

NOTES: The NV bit image defined is effective until the next NV bit image is defined.

0x1D 0x76 0x30 M xL xH yL yH Print Raster Bit Image

FORMAT ASCII GS v 0 M xL xH yL yH d1.....dk

HEXA DECIMAL 0x1D 0x76 0x30 M xL xH yL yH d1.....dk

DESCRIPTION: Prints a raster bit image using the mode specified by M. Here M is in hex format.

Command code	Description	
M = 0x00 or 0x30	Normal	
M = 0x01 or 0x31	Double-width	
M = 0x02 or 0x32	Double-height	
M = 0x03 or 0x33	Quadruple	
xL xH	Image width in bytes(xL + xH*256)	
yL yH	Image height in bytes(yL +yH*256)	
d1dk	Data bytes	

EXAMPLE 0x1D 0x76 0x30 0x03 0x01 0x00 0x08 0x00 0x7E 0x81 0x81

0x81 0xFF 0x81 0x81 0x81

Command will print image in quadruple mode.

NOTES: The NV bit image defined is effective until the next NV bit image is defined.

0x1B 0x2B N xL xH yL yH Save Indexed Based Image

FORMAT ASCII ESC + N xL xH yL yH

HEXA DECIMAL 0x1B 0x2B N xL xH yL yH d1.....dk

DESCRIPTION: Save an image into flash memory with referenced index number.



Command code	Description
0x1B 0x2B	Save image
N	Index number for the image
xL xH	Image width in bytes(xL + xH*256)
yL yH	Image height in bytes(yL +yH*256)
d1dk	Data bytes

EXAMPLE 0x1B 0x2B 0x05 0x01 0x00 0x08 0x00 0x7E 0x81 0x81 0x81

0xFF 0x81 0x81 0x81

Command will save image defined by data bytes into flash

memory with the index value 5.

NOTES: Maximum 10 images can be saved by this command.

Maximum size of each image should not exceed 64KB.

This command will overwrite previously saved image with new image for the same indexed image.

0x1B 0x2C N M		Print Indexed Based Image	
FORMAT	ASCII	ESC , N M	
	HEXA DECIMAL	0x1B 0x2C N M	

DESCRIPTION: Prints saved image of index value N with mode specified by M. Here M is in hex format.

M	Mode
0x00 or 0x30	Normal
0x01 or 0x31	Double-width
0x02 or 0x32	Double-height
0x03 or 0x33	Quadruple

EXAMPLE 0x1B 0x2C 0x01 0x02

Command will print an image with index value 1 in mode2

format.

NOTES: Command is ignored if no image is saved for the specified N value.

1.1.7 BARCODE COMMANDS

0x1D 0x48 N		Select Print Position of HRI Characters	
FORMAT	ASCII	GS H N	
	HEXA DECIMAL	0x1D 0x48 N	

DESCRIPTION: Select print position of HRI characters. Here N is in hex format.

N	Mode	
0x00 or 0x30	No HRI print	
0x01 or 0x31 Top of the barcode		
0x02 or 0x32 Bottom of the barcode		
0x03 or 0x33 Both top and bottom of the barco		

EXAMPLE 0x1D 0x48 0x01

Prints the HRI characters on top of barcode





NOTES: The setting of this command is effective until ESC@ is executed, the printer is reset, or the power is turned off.

0x1D 0x66 N Select Font for HRI Characters

FORMAT ASCII GS f N

HEXA DECIMAL 0x1D 0x66 N

DESCRIPTION: Selects a font for HRI characters when printing a barcode. Here N is in hex format.

N	Mode
0 or 0x30	Font A(12x24)
1 or 0x31	Font B(8x16)

EXAMPLE 0x1D 0x66 0x01

Sets the HRI character font to FONT B characters.

NOTES: The setting of this command is effective until ESC@ is executed, the printer is reset, or the power is turned off.

0x1D 0x68 N Set bar Code Height

FORMAT ASCII GS h N

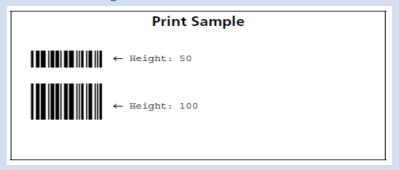
HEXA DECIMAL 0x1D 0x68 N

DESCRIPTION: Sets the height of the bar code to N dots.

EXAMPLE

0x1D 0x68 0x64

Sets barcode height to 100 dots.



NOTES: This command setting is effective until performing ESC@, reset or Power-off. If 0 is given as N, the default value is used.



Ox1D Ox6B M Print Barcode

FORMAT ASCII GS k M

HEXA DECIMAL 0x1D 0x6B M

DESCRIPTION: Prints the barcode using the barcode system specified by M.

M	Print Barcode command		
0 to 6	GS k M d1dk NULL	0x1D 0x6B M d1dk 0x00	
65 to 73	GS k M N d1dN	0x1D 0x6B M N d1dN	

 $M \rightarrow Barcode$ system. Here M is in decimal format.

 $N \rightarrow$ Length of Barcode.

 $d1....dk \rightarrow Barcode data.$

 $d1....dN \rightarrow Barcode data of length N.$

M	Barcode type	Barcode level
0	UPC-A	Multi-level
1	UPC-E	Multi-level
2	JAN13	Multi-level
3	JAN8	Multi-level
4	CODE39	Binary-level
5	ITF	Binary-level
6	CODABAR	Binary-level
65	UPC-A	Multi-level
66	UPC-E	Multi-level
67	JAN13	Multi-level
68	JAN8	Multi-level
69	CODE39	Binary-level
70	ITF	Binary-level
71	CODABAR	Binary-level
72	CODE93	Multi-level
73	CODE128	Multi-level

EXAMPLE 0x1D 0x6B 0x00 0x31 0x32 0x33 0x34 0x35 0x36 0x37 0x38

0x39 0x31 0x32 0x00

0x1D 0x6B 0x41 0x0B 0x31 0x32 0x33 0x34 0x35 0x36 0x37

0x38 0x39 0x31 0x32

Both of these commands will print same UPC-A barcode

NOTES:

0x1D 0x77 N Set Bar Code Width

FORMAT ASCII GS w N

HEXA DECIMAL 0x1D 0x77 N

DESCRIPTION: Sets the width of the barcode depending on value of N. Here N is in decimal format.

N	Multi-level Barcode	Binary-level Barcode	
	Module width	Narrow element	Wide element
2	2 dots	2 dots	5 dots



3	3 dots	3 dots	8 dots
4	4 dots	4 dots	10 dots
5	5 dots	5 dots	13 dots
6	6 dots	6 dots	15 dots

EXAMPLE

0x1D 0x77 0x04

This command will set barcode width to 4 dots.



NOTES: The setting of this command is effective until ESC@ is executed, the printer is reset, or the power is turned off.

1.1.8 STATUS COMMAND

0x1D 0x72 N		Transmit Status
FORMAT	ASCII	GSrN
	HEXA DECIMAL	0x1D 0x72 N

DESCRIPTION: Printer will respond with paper status for this command for N = 1 or 0x31

Response	Paper status
0x00	Paper present
0x0c	Paper is not present

EXAMPLE 0x1D 0x72 0x01

Printer will transmit the paper status.

NOTES: The platen should be closed while processing this command.

1.1.9 CUSTOMIZE COMMANDS

0x1D 0x28 0x45 0x04 0x00	0x05 0x74 nL nH	Auto-Off Timer Setting
FORMAT	ASCII	GS (E 0x04 0x00 0x05 0x74 nL nH
	HEXA DECIMAL	0x1D 0x28 0x45 0x04 0x00 0x05 0x74 nL nH

DESCRIPTION: The command will set the auto power-off time for the printer.

 $0 \le (nL + nH*256) \le 60$

EXAMPLE 0x1D 0x28 0x45 0x04 0x00 0x05 0x74 0x05 0x00 Command will sets the auto power-off time to 5min.



NOTES: 0x1D 0x28 0x45 0x04 0x00 0x05 0x74 0x00 0x00 will turn-off the auto power-off setting.

0x1D 0x28 0x45 0x02 0x00 0x06 0x74	Transmit Customized Settings
------------------------------------	------------------------------

FORMAT ASCII GS (E 0x02 0x00 0x06 0x74

HEXA DECIMAL 0x1D 0x28 0x45 0x02 0x00 0x06 0x74

DESCRIPTION: This command will transmit the customized setting values.

EXAMPLE 0x1D 0x28 0x45 0x02 0x00 0x06 0x74

Printer will transmit the current printing density, auto-off

time value and thermal head run.

NOTES: None.

0x1B 0x68 Temperature Response

FORMAT ASCII ESC h

HEXA DECIMAL 0x1B 0x68

DESCRIPTION: This command will respond the printer temperature.

EXAMPLE 0x1B 0x68

Printer will reply the its temperature.

NOTES: None.

0x1B 0x79 Voltage Response

FORMAT ASCII ESC y

HEXA DECIMAL 0x1B 0x79

DESCRIPTION: This command will respond the printer voltage and battery life.

EXAMPLE 0x1B 0x79

Printer will reply the its current voltage and battery life.

NOTES: None.

0x1D 0x28 0x45 0x04 0x00 0x0D d1d2d3d4 Set Bluetooth pairing pin

FORMAT ASCII GS (E 0x04 0x00 0x0D d1d2d3d4

HEXA DECIMAL 0x1D 0x28 0x45 0x04 0x00 0x0D d1d2d3d4

DESCRIPTION: This command will set the custom Bluetooth pairing pin of 4 digits.

EXAMPLE 0x1D 0x28 0x45 0x04 0x00 0x0D 9876

This will set the Bluetooth pairing code to 9876.

NOTES: The pin must be of 4 digits.



0x1D 0x28 0x45 0x00	0 0x00 0x0E data	Set Bluetooth discoverability mode
FORMAT	ASCII	GS (E 0x00 0x00 0x0E data
	HEXA DECIMAL	0x1D 0x28 0x45 0x00 0x00 0x0E data
DESCRIPTION: This command will set the Bluetooth discoverability mode.		
EXAMPLE		0x1D 0x28 0x45 0x00 0x00 0x0E 0x01
		This will set the Bluetooth to undiscoverable mode. Only
		devices which are already paired to the printer can access
		and print.
NOTES: If the device is not paired with the printer, then it is unable to print.		

2. USING TERMINAL SOFTWARE

You will need terminal software to communicate to the printer. This software is provided when you purchase the printer. Just double click on the terminal software and the window will open as below.





LOADING .tmf FILE

The tmf file consists of various macros in it. Macros are pre-defined commands (as given in command list) for various printing options. Each macro will appear in the form of button, which is easier to use. Clicking on it will send the command entered.

- → Click on Macro
- → Click on load
- → Locate .tmf file provided along with terminal





software and click open

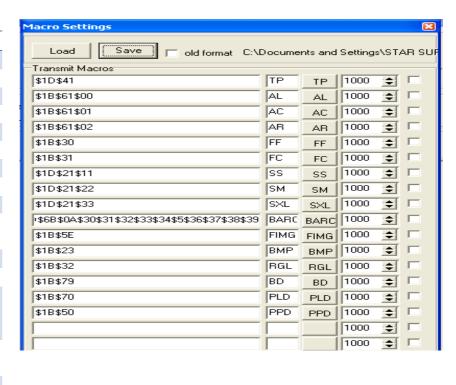
Transmit macros are the commands.

Note: In this software \$ is equivalent to 0x (hexadecimal)

You can give the name for the buttons as required.

Button Details

TP	Test Print
AL	Align Left
AC	Align Center
AR	Align Right
FF	Select Fixedsys Font
FC	Select courier font
SS	Select Font Size as small
SM	Select Font Size as medium
SXL	Select Font Size as XL
BARC	Barcode
FIMG	Print Image from Flash (internally
	stored)
BMP	Print BMP image
RGL	Print Regional language
BD	Battery Charge detect (Returns battery
	charge value and the same is displayed
	on terminal)
PLD	Detect (Returns Platten status and the
	same is displayed on terminal)
PPD	Paper Detect (Returns paper status and
	same is displayed on terminal)



Close Macro Settings window, macro buttons will appear as below. By clicking the buttons, the particular macro will execute/transmit.





Click appropriate button for printer to execute commands.

Note:

- 1. To print desired text, simple enter the text and click send
- 2. For BMP image, click BMP button and click "Send File" and select desired BMP file to be printed.
 - a. Make sure the width and height match printer used
 - i. 3 inch: Max width: 576 pixel (image should be multiple of 8 pixels)
 - ii. 2 inch: Max width: 384 pixel (image should be multiple of 8 pixels)
 - b. Use only black and white image (1 bits/pixel)

Same process is followed for Bin file print also.

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