TSPL/TSPL2 Programming Language

TSC BAR CODE PRINTER SERIES

PROGRAMMING MANUAL

Update History

Date	Content	Editor
2007/7/13	Revise some typos	Phil
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2009/6/24	Add RSS command	Phil

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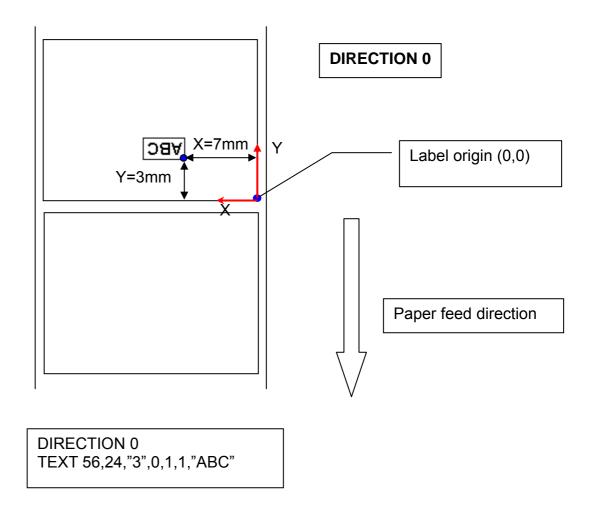
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Document Conventions

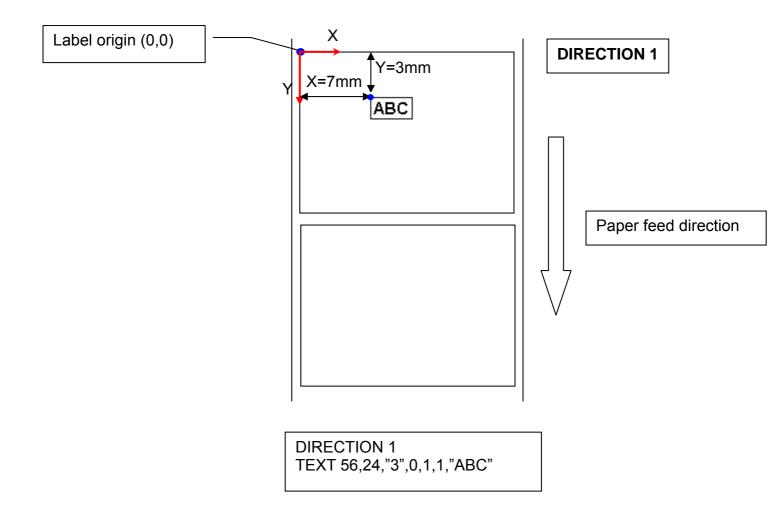
This manual uses the following typographic conventions.

Convention	Description
[expression list]	Items inside square brackets are optional, expression maximum length 2*1024 bytes;
<esc></esc>	ESCAPE (ASCII 27), control code of status polling command returns the printer status immediately.
~	(ASCII 126), control code of status polling command, returns the printer status only when the printer is ready.
Space	(ASCII 32) characters will be ignored in the command line.
ű	(ASCII 34), beginning and ending of expression
CR,LF	(ASCII 13),(ASCII 10) denotes end of command line.
NULL	(ASCII 0) supported in the expression, except the 2D bar code commands.
Note: 203 DPI: 1 mm = 8 dots	Arial font in bold and italic type is used for note.

Object Position Calculation



203 DPI, 1mm=8 dots 300 DPI, 1mm=12 dots



Printer Models List

Series	Models
TTP-243 series	1. TTP-243
	2. TTP-243E
TTP-243 Plus series	3. TTP-243 Plus
	4. TTP-243E Plus
TTP-244ME series	5. TTP-243M
	6. TTP-244ME
	7. TTP-244ME Plus
TTP-244 series	8. TTP-244
	9. TTP-244 Plus
TTP-244CE series	10.TTP-244CE
TTP-245 series	11.TTP-245
	12.TTP-245G
	13.TTP-245 Plus
TTP-247	14. TTP-247
TTP-225	15.TTP-225
TTP-245C series	16.TTP-245C
TDP-245 series	17. TDP-245
	10. TDP-245G
	11. TDP-245 Plus
TDP-225	18. TDP-225
TTP-246M series	19. TTP-246M
	20.TTP-246G
	21.TTP-246M Plus
TTP-248M series	22.TTP-248M
TTP-2410M series	23.TTP-2410M
TDP-643 Plus	24. TDP-643 Plus
TDP-643R Plus	25.TDP-643R Plus
TTP-342 series	26.TTP-342
	27.TTP-342 Plus
TTP-342M series	28.TTP-342M
	29.TTP-342M Plus
TTP-343 series	30.TTP-343
	31.TTP-343 Plus
TTP-345	32.TTP-345
TTP-343C series	33.TTP-343C
TTP-344M series	34. TTP-344M
	35.TTP-344M Plus
TTP-346M series	36. TTP-346M
TTP-384M series	37. TTP-384M
TTP-644M series	38. TTP-644M
M23 series	39. M23
	1

Setup and System Commands

• SIZE

Description

This command defines the label width and length.

Syntax

(1) English system (inch) SIZE m,n

(2) Metric system (mm) SIZE m mm,n mm

(3) Dot measurement SIZE m dot,n dot

This command is only supported in v6.27 and later firmware.

<u>Parameter</u> <u>Description</u>

m Label width (inch or mm)
n Label length (inch or mm)

Note:

200 DPI : 1 mm = 8 dots 300 DPI : 1mm = 12 dots

For metric and dot systems, there must be a space between

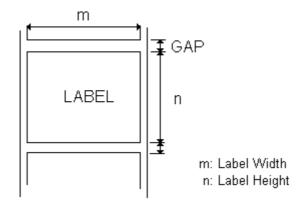
parameter and "mm" or "dot".

Max. width	72mm	104mm	106mm	108mm	219.5mm
TTP-243 series		Х			
TTP-243 Plus series		Х			
TTP-244ME series		Х			
TTP-244ME Plus series		X			
TTP-244 series				X	
TTP-244CE series				X	
TTP-245 series				X	
TTP-245C series				Х	
TDP-245 series				Х	
TTP-246M series				X	
TTP-248M series		X			
TTP-2410M series		X			
TDP-643 Plus series		X			
TDP-643R Plus series		X			
TTP-342 series			X		
TTP-342 Plus series			Х		
TTP-342M series			X		
TTP-342M Plus series			X		
TTP-343 series			X		
TTP-343C series			X		

TTP-344M series		Х		
TTP-346M series		X		
TTP-384M series				Х
TTP-644M series		Х		
TTP-247			Х	
TTP-345		X		
M23 series	Х			

Example

- (1) English system (inch) SIZE 3.5, 3.00
- (2) Metric system (mm) SIZE 100 mm, 100 mm



See AlsoGAP, BLINE

GAP

Description

Defines the gap distance between two labels

Syntax

(1). English system (inch) GAP m,n

(2) Metric system (mm) GAP m mm,n mm

<u>Parameter</u>	<u>Description</u>
m	The gap distance between two labels
	$0 \le m \le 1 \text{ (inch)}, 0 \le m \le 25.4 \text{ (mm)}$
n	The offset distance of the gap
	n ≤ label length (inch or mm)
0,0	Continuous label.

Note: For metric system, there must be a space between parameter and "mm".

When the sensor type is changed from "Black Mark" to "GAP", please send the "GAP" command to the printer first.

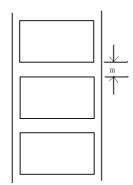
Ex: In DOS mode,

C:\>copy con lpt1 <Enter> GAP 2 mm,0 <Enter> <Ctrl>+<Z> <Enter>

Example

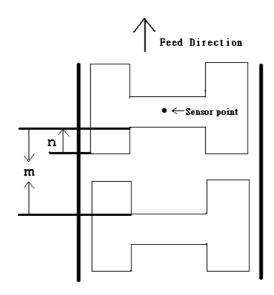
Normal gap

- (1). English system (inch) GAP 0.12,0
- (2) Metric system (mm) GAP 3 mm,0
- (3). Continuous label GAP 0,0



Special gap

- (1). English system (inch) GAP 0.30, 0.10
- (2). Metric system (mm) GAP 7.62 mm, 2.54 mm



See Also

SIZE, BLINE

GAPDETECT

Description

Feeds paper through the gap sensor in an effort to determine the paper and gap sizes, respectively. This command references the user's approximate measurements. If the measurements conflict with the actual size, the GAPDETECT command will not work properly. This calibration method can be applied to the labels with pre-printed logos or texts.

If parameter x,y parameters are ignored then printer will calibrate and determine the paper length and gap size automatically.

Syntax

GAPDETECT [x, y]

<u>Parameter</u>	<u>Description</u>
X	Paper length (in dots)
у	Gap length (in dots)

See Also

GAP, SIZE

BLINE

Description

This command sets the height of the black line and the user-defined extra label feeding length each form feed takes.

Syntax

(1) English system (inch) BLINE m,n

(2) Metric system (mm) BLINE m mm,n mm

<u>Parameter</u>	<u>Description</u>
m	The height of black line either in inch or mm.
	$0 \le m \le 1$ (inch), $0 \le m \le 25.4$ (mm)
n	The extra label feeding length. $0 \le n \le label length$
0.0	Continuous label.

Note: For metric system, there must be a space between parameter and "mm".

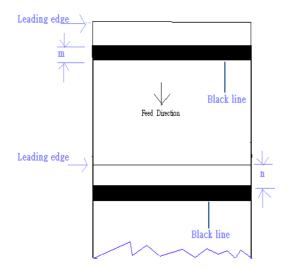
When the sensor type is changed from "GAP" to "Black Mark", please send the "BLINE" command to the printer first.

Ex: In DOS mode,

C :\>copy con lpt1 <Enter> BLINE 2 mm,0 <Enter> <Ctrl>+<Z> <Enter>

Example

- (1) English system (inch) BLINE 0.20,0.50
- (1) Metric system (mm) BLINE 5.08 mm,12.7 mm



See Also SIZE, GAP

OFFSET

Description

This command defines the selective, extra label feeding length each form feed takes, which, especially in peel-off mode and cutter mode, is used to adjust label stop position, so as for label to register at proper places for the intended purposes. The printer back tracks the extra feeding length before the next run of printing.

Syntax

- (2) English system (inch) OFFSET m
- (3) Metric system (mm) OFFSET m mm

<u>Parameter</u> <u>Description</u>

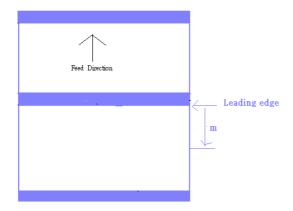
m The offset distance (inch or mm)

 $-1 \le m \le 1(inch)$

CAUTION: Impropriety offset value may cause paper jam.

Example

- (1) English system (inch) OFFSET 0.5
- (2) Metric system (mm) OFFSET 12.7 mm



See Also

SIZE, GAP, SET PEEL, SET CUTTER

• SPEED

Description

This command defines the print speed.

Syntax

SPEED n

Parameter
nDescription
printing speed in inch per second

Model / IPS	1	1.5	2	2.5	3	3.5	4	5	6	8	10	12
TTP-243 series		Х	Х		Х							
TTP-243 Plus series		Х	Х		Х							
TTP-244ME series		Х	Х		Х		Х					
TTP-244ME Plus series		Х	Х		Х		Х					
TTP-244 series			Х		Х		Х					
TTP-244CE series			Х		Х		Х					
TTP-245 series			Х		Х		Х	X				
TTP-245C series			X		X		X	X	X			
TDP-245 series			X		X		X	X				
TTP-246M series			X		X		X	Х	X			
TTP-246M Plus series			X		Х		X	X	X	X		
TTP-248M series							Х	X	X	X		
TTP-2410M series							X		X	X	X	X
TDP-643 Plus series		X	X		X							
TDP-643R Plus series		X	X		X							
TTP-342 series	X	X	X									
TTP-342 Plus series	X	X	X									
TTP-342M series	X	X	X									
TTP-342M Plus series	X	X	X									
TTP-343 series			X		X							
TTP-343C series			X		X		X					
TTP-344M series			X		X		X					
TTP-344M Plus series			X		X		X		X			
TTP-346M series							X	X	X	Х		
TTP-384M series			Х		Х		Х					
TTP-644M series			Х		Х		Х					
M23 series		X	X	X	Χ	X						

Example

SPEED 10

See Also

DENSITY

DENSITY

Description

This sets the printing darkness.

Syntax

DENSITY n

<u>Parameter</u> <u>Description</u>

0~15

0: specifies the lightest level 15: specifies the darkest level

Note: Default DENSITY setting is 8

Example

DENSITY 7

See Also

DENSITY

DIRECTION and Mirror Image

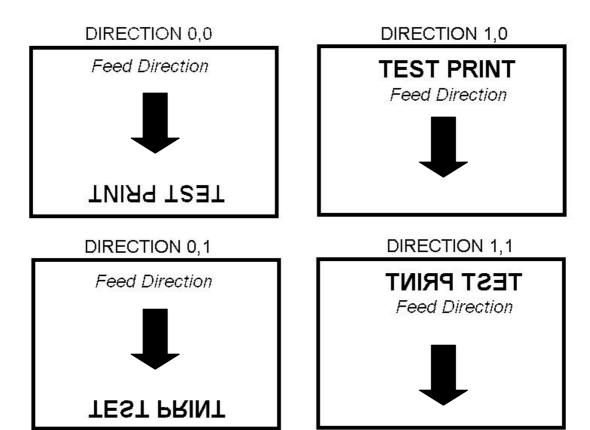
Description

This command defines the printout direction and mirror image. This will be memorized in the printer memory.

Syntax

DIRECTION n[,m]

<u>Parameter</u>	<u>Description</u>
n	0 or 1. Please refer to the illustrations below:
m	0: Print normal image. 1: Print mirror image.



Madal	Support				
Model	DIRECTION	MIRROR			
TTP-243 series	X				
TTP-243 Plus series	X	Х			
TTP-244ME series	X				
TTP-244ME Plus series	Х	Х			
TTP-244 series	X	X			
TTP-244CE series	X	X			
TTP-245 series	X	X			
TTP-245C series	X	X			
TDP-245 series	X	X			
TTP-246M series	X	X			
TTP-248M series	X	X			
TTP-2410M series	X	X			
TDP-643 Plus series	X				
TDP-643R Plus series	X	X			
TTP-342 series	X				
TTP-342 Plus series	X	X			
TTP-342M series	X				
TTP-342M Plus series	X	X			
TTP-343 series	X	X			
TTP-343C series	X	Х			
TTP-344M series	X	Х			
TTP-346M series	X	Х			
TTP-384M series	X	Х			
TTP-644M series	X	Х			
M23 series	X	X			

Example
DIRECTION 0[,0]

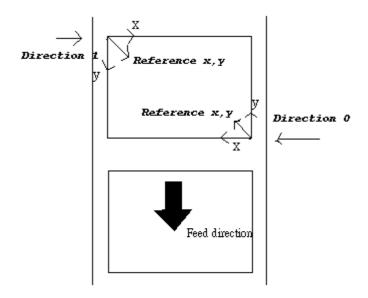
See Also

REFERENCE

REFERENCE

Description

This command defines the reference point of the label. The reference (origin) point varies with the print direction, as shown:



Syntax

REFERENCE x, y

<u>Parameter</u>	<u>Description</u>
X	Horizontal coordinate (in dots)
у	Vertical coordinate (in dots)

Note: 200 DPI: 1 mm = 8 dots 300 DPI: 1 mm = 12 dots

Example

REFERENCE 10,10

See Also

DIRECTION

SHIFT

Description

This command moves the label vertical position. A positive value moves the label further from the printing direction; a negative value moves towards. For a visual representation, see next page.

Syntax

SHIFT n

<u>Parameter</u>

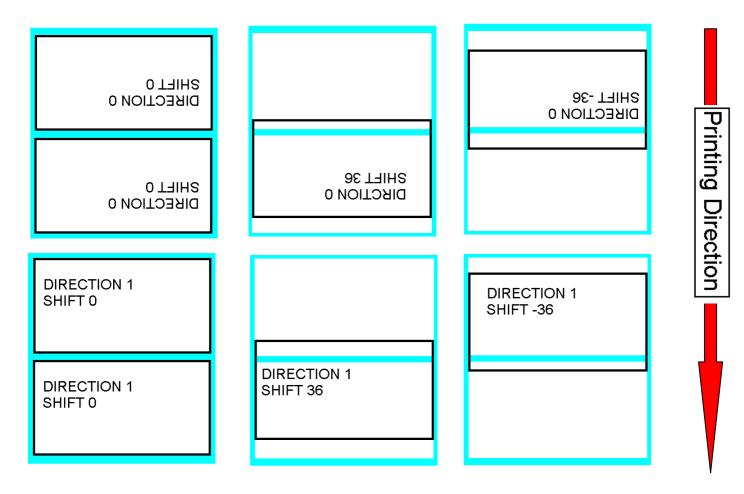
Description

n

The maximum value is 1 inch. For 200 dpi printers, the range is -203 to 203; for 300 dpi printers, the range is -300 to 300. The unit is dot.

Model	Support
TTP-243 series	
TTP-243 Plus series	X
TTP-244ME series	
TTP-244ME Plus series	X
TTP-244 series	X
TTP-244CE series	X
TTP-245 series	X
TTP-245C series	X
TDP-245 series	X
TTP-246M series	X
TTP-248M series	
TTP-2410M series	X
TDP-643 Plus series	
TDP-643R Plus series	X
TTP-342 series	
TTP-342 Plus series	X
TTP-342M series	
TTP-342M Plus series	X
TTP-343 series	X
TTP-343C series	X
TTP-344M series	X
TTP-346M series	X
TTP-384M series	X
TTP-644M series	X
M23 series	

Example



SIZE 4,2.5 GAP 2 mm,0 DIRECTION 0 SHIFT 30 OFFSET 0 CLS TEXT 400,200,"3",0,1,1,"DIRECTION 0" TEXT 400,250,"3",0,1,1,"SHIFT 30" BOX 10,0,780,490,8 PRINT 3,1

See Also

OFFSET, REFERENCE

COUNTRY

Description

This command orients the keyboard for use in different countries via defining special characters on the KP-200 series portable LCD keyboard (option).

Syntax

COUNTRY n

<u>Parameter</u> n	<u>Description</u> 001: USA
	002: Canadian-French
	003: Spanish (Latin America)
	031: Dutch
	032: Belgian
	033: French (France)
	034: Spanish (Spain)
	036: Hungarian
	038: Yugoslavian
	039: Italian
	041: Switzerland
	042: Slovak
	044: United Kingdom
	045: Danish
	046: Swedish
	047: Norwegian
	048: Polish
	049: German
	055: Brazil
	061: English (International)
	351: Portuguese
	358: Finnish

Example

COUNTRY 001

See Also

CODEPAGE, ~!I

CODEPAGE

Description

This command defines the code page of international character set.

Syntax

CODEPAGE n

<u>Parameter</u>	Description Name or number of code page, which can be divided into 7-bit code page and 8-bit code page further. 7-bit code page name USA: USA BRI: British GER: German FRE: French DAN: Danish ITA: Italian SPA: Spanish SWE: Swedish SWI: Swiss
	8-bit code page number 437: United States 850: Multilingual 852: Slavic 860: Portuguese 863: Canadian/French 865: Nordic 857: Turkish (TSPL2 printers only)

Note: DATA LENGTH determines 7-bit or 8-bit communications parameter.

1250: Central Europe (TSPL2 printers only)

1252: Latin I (TSPL2 printers only) 1253: Greek (TSPL2 printers only) 1254: Turkish (TSPL2 printers only)

Windows code page

-

Model				7-bit	t Coder	page						8-bi	t Coder	oage			Wi	ndows	Codepa	age
	USA	BRI	GER	FRE	DAN	ĪΤΑ	SPA	SWE	SWI	437	850	852	860	863	865	857	1250	1252	1253	1254
TTP-243 series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х					
TTP-243 Plus series	Х	Х	Х	Χ	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х					
TTP-244ME series	Х	Х	Χ	Х	Х	Х	Х	Χ	Х	Х	Χ	Χ	Х	Х	Χ					
TTP-244ME Plus series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х					
TTP-244 series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Χ
TTP-244 CE series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
TTP-245 series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
TTP-245C series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
TDP-245 series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
TTP-246M series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Χ
TTP-246M Plus series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Χ
TTP-248M series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Χ
TTP-2410M series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Χ
TDP-643 Plus series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х					
TDP-643R Plus series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х					
TTP-342 series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х					
TTP-342 Plus series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х					
TTP-342M series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х					
TTP-342M Plus series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х					
TTP-343 series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Χ
TTP-343C series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Χ
TTP-344M series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Χ
TTP-344M Plus series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
TTP-346M series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Χ
TTP-384M series	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
TTP-644M series	Х	Х	Х	Χ	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Χ
M23 series	Х	Х	Х	Χ	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х					

Example CODEPAGE 437

See Also

COUNTRY, SET COM1, ~!I

• CLS

Description

This command clears the image buffer.

Syntax

CLS

Description N/A <u>Parameter</u>

None

Note: This command must be placed after SIZE command.

Example CLS

See Also

SIZE, GAP, BLINE

• FEED

Description

This command feeds label with the specified length. The length is specified by dot.

Syntax

FEED n

ParameterDescriptionnunit: dot $1 \le n \le 9999$

Example

FEED 40

Note: 200 DPI: 1 mm = 8 dots 300 DPI: 1 mm = 12 dots

See Also

BACKFEED, SIZE, GAP, BLINE, HOME, FORMFEED

• BACKFEED & BACKUP

Description

This command feeds the label in reverse. The length is specified by dot.

Syntax

BACKUP n (TSPL printers only) BACKFEED n (TSPL2 printers only)

ParameterDescriptionnunit: dot

 $1 \le n \le 9999$

Model	Support					
Model	BACKUP	BACKFEED				
TTP-243 series	Х					
TTP-243 Plus series	Х	X				
TTP-244ME series	Х					
TTP-244ME Plus series	X	X				
TTP-244 series	X	X				
TTP-244CE series						
TTP-245 series		X				
TTP-245C series		Х				
TDP-245 series		Х				
TTP-246M series		X				
TTP-248M series		X				
TTP-2410M series	X	Х				
TDP-643 Plus series	X					
TDP-643R Plus series	X	X				
TTP-342 series	X					
TTP-342 Plus series	X	X				
TTP-342M series	X					
TTP-342M Plus series	X	Х				
TTP-343 series		Х				
TTP-343C series		Х				
TTP-344M series		Х				
TTP-346M series	Х	Х				
TTP-384M series	Х	Х				
TTP-644M series	X	X				
M23 series		X				

Example

BACKUP 40 BACKFEED 40

CAUTION: Impropriety back feed value may cause paper jam or wrinkle.

Note: 200 DPI: 1 mm = 8 dots

300 DPI : 1 mm = 12 dots

See Also

FEED, SIZE, GAP, BLINE, HOME, FORMFEED

FORMFEED

Description

This command feeds label to the beginning of next label.

Syntax

FORMFEED

Parameter Description N/A

Example

SIZE 4,2.5 GAP 0 mm,0 SPEED 4 **DENSITY 7** DIRECTION 0 OFFSET 0.00 REFERENCE 0,0 SET PEEL OFF SET CUTTER OFF SET COUNTER @0 +1 @0="000001" **FORMFEED** CLS BOX 1,1,360,65,12 TEXT 25,25,"3",0,1,1,"FORMFEED COMMAND TEST" TEXT 25,80,"3",0,1,1,@0 PRINT 3,1

See Also

FEED, SIZE, GAP, BLINE, HOME, BACKFEED

HOME

Description

This command will feed label until the internal sensor has determined the origin. Size and gap of the label should defined before using this command.

Syntax

HOME

 $\begin{array}{c} \underline{\textbf{Parameter}} \\ \textbf{None} \end{array} \qquad \begin{array}{c} \underline{\textbf{Description}} \\ \textbf{N/A} \end{array}$

Model	HOME				
Model	Back Label	Feed Label			
TTP-243 series	X				
TTP-243 Plus series		Х			
TTP-244ME series	X				
TTP-244ME Plus series		X			
TTP-244 series		X			
TTP-244CE series		X			
TTP-245 series		X			
TTP-245C series		X			
TDP-245 series		X			
TTP-246M series		X			
TTP-248M series		X			
TTP-2410M series		X			
TDP-643 Plus series	X				
TDP-643R Plus series		X			
TTP-342 series	X				
TTP-342 Plus series		X			
TTP-342M series	X				
TTP-342M Plus series		X			
TTP-343 series		X			
TTP-343C series		X			
TTP-344M series		X			
TTP-346M series		X			
TTP-384M series		X			
TTP-644M series		X			
M23 series		X			

Example

SIZE 4,2.5 GAP 2 mm,0 SPEED 4 **DENSITY 7 DIRECTION 0** OFFSET 0.00 REFERENCE 0,0 **SET PEEL OFF** SET CUTTER OFF SET COUNTER @0 +1 @0="000001" **HOME CLS** BOX 1,1,360,65,12 TEXT 25,25,"3",0,1,1,"HOME COMMAND TEST" TEXT 25,80,"3",0,1,1,@0 PRINT 3,1

See Also

FEED, SIZE, GAP, BLINE, FORMFEED

• PRINT

Description

This command prints the label format currently stored in the image buffer.

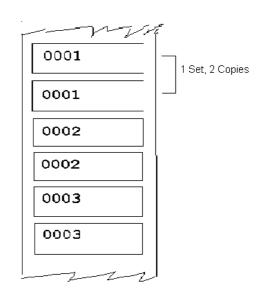
Syntax

PRINT m [,n]

<u>Parameter</u> m	<u>Description</u> Specifies how many sets of labels will be printed. 1 ≤ m ≤ 999999999
	If m=-1, printer will print the last label content for n copies.
n	Specifies how many copies should be printed for each particular label set. $1 \le n \le 99999999999999999999999999999999$

Example

SIZE 60 mm, 20 mm SET COUNTER @1 1 @1="0001" CLS TEXT 10,10,"3",0,1,1,@1 PRINT 3,2 PRINT -1,2



See Also

SET COUNTER, INPUT, DOWNLOAD

SOUND

Description

This command-controls the sound frequency of the beeper. There are 10 levels of sounds. The timing control can be set by the "interval" parameter.

Syntax

SOUND level, interval

<u>Parameter</u>	<u>Description</u>
level	Sound level: 0~9
interval	Sound interval: 1~4095

Example

SOUND 5,200 SOUND 3,200 SOUND 3,200 SOUND 4,200 SOUND 2,200 SOUND 2,200 SOUND 1,200 SOUND 2,200 SOUND 3,200 SOUND 4,200 SOUND 5,200

• CUT

Description

This command activates the cutter to immediately cut the labels without back feeding the label.

Syntax

CUT

Parameter
NoneDescription
N/A

Example

SIZE 3,3
GAP 0 mm,0
CLS
DIRECTION 0
REFERENCE 0,0
OFFSET 0.00 mm
SET CUTTER OFF
SET TEAR OFF
BOX 0,0,866,866,5
TEXT 100,100,"5",0,1,1,"FEED & CUT"
TEXT 100,200,"5",0,1,1,"300 DPI"
PRINT 1,1
FEED 260
CUT

See Also

SET CUTTER, SET BACK, SET PARTITAL_CUTTER

LIMITFEED

Description

If the gap sensor is not set to a suitable sensitivity while feeding labels, the printer will not be able to locate the correct position of the gap. This command stops label feeding and makes the red LED flash if the printer does not locate gap after feeding the length of one label plus one preset value.

Syntax

LIMITFEED n (inch, the English system)
LIMITFEED n mm (mm, the metric system)

<u>Parameter</u> <u>Description</u> inch or mm

Remark

The setting will remain resident in memory.

The default value is 10 inches when printer initializes.

For metric system, there must be a space between parameter n and mm.

• SELFTEST

Description

At this command, the printer will print out the printer information-

Model	Support
TTP-243 series	
TTP-243 Plus series	X
TTP-244ME series	
TTP-244ME Plus series	X
TTP-244 series	X
TTP-244CE series	X
TTP-245 series	X
TTP-245C series	X
TDP-245 series	X
TTP-246M series	X
TTP-248M series	
TTP-2410M series	X
TDP-643 Plus series	
TDP-643R Plus series	X
TTP-342 series	
TTP-342 Plus series	X
TTP-342M series	
TTP-342M Plus series	X
TTP-343 series	X
TTP-343C series	X
TTP-344M series	Х
TTP-346M series	Х
TTP-384M series	Х
TTP-644M series	Х
M23 series	X

Syntax

SELFTEST

Example

SELFTEST

Label Formatting Commands

BAR

Description

This command draws a bar on the label format.

Syntax

BAR x, y, width, height

<u>Parameter</u>	<u>Description</u>
X	The upper left corner x-coordinate (in dots)
y	The upper left corner y-coordinate (in dots)
width	Bar width (in dots)
height	Bar height (in dots)

Note: 200 DPI: 1 mm = 8 dots

300 DPI: 1 mm = 12 dots

Recommended max. bar height is 12mm at 4" width. Bar height over than 12 mm may damage the power supply and affect the print quality.

Max. print ratio is different for each printer model. Desktop and industrial printer print ratio is limited to 20% and 30% respectively.

Example

SIZE 4,2.5 GAP 0,0 SPEED 6 DENSITY 8 DIRECTION 0 CLS BAR 100, 100, 300, 200 PRINT 1,1



See Also

BOX

BARCODE

Description

This command prints 1D barcodes.

The available bar codes are listed below:

- Code 128 (switching code subset automatically)
- Code 128M (switching code subset manually)
- EAN 128 (switching code subset automatically)
- Interleaved 2 of 5
- Interleaved 2 of 5 with check digit
- Code 39 standard
- Code 39 full ASCII
- Code 39 full ASCII with check digit
- Code 93
- EAN 13
- EAN 13 with 2 digits add-on
- EAN 13 with 5 digits add-on
- EAN 8
- EAN 8 with 2 digits add-on
- EAN 8 with 5 digits add-on
- Codabar
- Postnet
- UPC-A
- UPC-A with 2 digits add-on
- UPC-A with 5 digits add-on
- UPC-E
- UPC-E with 2 digits add-on
- UPC-E with 5 digits add-on
- MSI
- PLESSEY
- China POST
- ITF14
- EAN14

Syntax

BARCODE X, Y, "code type", height, human readable, rotation, narrow, wide, "code"

<u>Parameter</u>	<u>Description</u>
X	Specify the x-coordinate of the bar code on label
Υ	Specify the y-coordinate of the bar code on label
Code type	
128	Code 128, switching code subset A, B, C automatically
128M	Code 128, switching code subset A. B. C manually.

Control code	Α	В	С						
096	FNC3	FNC3	NONE						
097	FNC2	FNC2	NONE						
098	SHIFT	NONE							
099	CODE C	CODE C	NONE						
100	CODE B	CODE B FNC4							
101	FNC4	CODE A	CODE A						
102	FNC1	FNC1	FNC1						
103	Start (CODE A)								
104	Start (CODE B)								
105		Start (CODE C)							

Use "!" as a starting character for the control code followed by three control codes.

If the start subset is not set, the default starting subset is B.

EAN128	Code 128, switching code subset A, B, C automatically
25	Interleaved 2 of 5
25C	Interleaved 2 of 5 with check digits
39	Code 39 full ASCII for TSPL2 printers
	Code 39 standard for TSPL printers
	Auto switch full ASCII and standard code 39 for
	PLUS models.
39C	Code 39 full ASCII with check digit for TSPL2 printers
	Code 39 standard with check digit for TSPL printers
	Auto switch full ASCII and standard code 39 for
	PLUS models.
39S	Code 39 standard for TSPL2 printers
93	Code 93
EAN13	EAN 13
EAN13+2	EAN 13 with 2 digits add-on
EAN13+5	EAN 13 with 5 digits add-on
EAN8	EAN 8
EAN8+2	EAN 8 with 2 digits add-on

EAN8+5 EAN 8 with 5 digits add-on

CODA Codabar POST Postnet UPCA UPC-A

UPCA+2 UPC-A with 2 digits add-on UPCA+5 UPC-A with 5 digits add-on

UPCE UPC-E

UPCE+2 UPC-E with 2 digits add-on UPCE+5 UPC-E with 5 digits add-on

CPOST China post code

MSI MSI code

MSIC

PLESSEY PLESSEY code ITF14 ITF 14 code EAN14 EAN 14 code

Height Bar code height (in dots)

Human readable 0: not readable

1: human readable

Rotation

0 No rotation

90 Rotate 90 degrees clockwise
180 Rotate 180 degrees clockwise
270 Rotate 270 degrees clockwise
Narrow Width of narrow element (in dots)
Wide Width of wide element (in dots)

	narrow · wide	narrow · wide	narrow · wide	narrow · wide	narrow : wide
	1:1	1:2	1:3	2:5	3:7
128	10x	-	-	-	-
EAN128	10x	-	-	-	-
25	-	10x	10x	5x	-
25C	_	10x	10x	5x	-
39	-	10x	10x	5x	-
39C	-	10x	10x	5x	-
93	-	-	10x	-	-
EAN13	8x	-	-	-	-
EAN13+2	8x	-	-	-	-
EAN13+5	8x	ı	-	-	-
EAN 8	8x	ı	-	-	-
EAN 8+2	8x	ı	-	-	-
EAN 8+5	8x	ı	-	-	-
CODA	-	10x	10x	5x	-
POST	1x	-	-	-	-
UPCA	8x	-	-	-	-
UPCA+2	8x	-	-	-	-
UPCA+5	8x	-	-	-	-
UPCE	8x	-	-	-	-

UPCE+2	8x	-	-	-	1
UPCE+5	8x	-	-	-	ı
CPOST	-	-	-	-	1x
MSI	-	-	10x	-	ı
MSIC			10x		-
PLESSY	-	-	10x	-	-
ITF14	-	10x	10x	5x	-
EAN14	-	_	_	-	-

code number

the maximum number of digits of bar code content

Barcode type	Maximum bar code length
128	-
EAN128	-
25	-
25C	-
39	-
39C	-
93	-
EAN13	12
EAN13+2	14
EAN13+5	17
EAN 8	7
EAN 8+2	9 12
EAN 8+5	12
CODA	-
POST	5,9,11
UPCA	11
UPCA+2	13
UPCA+5	16
UPCE	6
UPCE+2	8
UPCE+5	11
CPOST	-
MSI	-
MSIC	
PLESSY	-
ITF14	13
EAN14	13

Example

BARCODE 100,100,"39",96,1,0,2,4,"1000"

BARCODE 10,10,"128M",48,1,0,2,2,"!104!096ABCD!101EFGH"

(The above example of code 128M encoded with CODE B start character.

The next character will be the code 128 function character FNC3 which is

then followed by the ABCD characters and EFGH characters encoded as CODE A subset.)

Barcode Type Model	128	EAN128	25	25C	39 for TSPL2	39 for TSPL	39 for PLUS	39C for TSPL2	for	39C for PLUS	398	93	EAN13	EAN13+2	EAN13+5	EAN 8	EAN 8+2	EAN 8+5	CODA	POST	UPCA	UPCA+2	UPCA+5	UPCE	UPCE+2	UPCE+5	CPOST	MSI	MSIC	PLESSY	ITF14	EAN14
TTP-243 series	χ	Х	Х	Х		Х			Χ			Χ	Χ	Х	Χ	Χ	Χ	Χ	Х	Χ		Χ		Χ	Χ	Χ	Χ					
TTP-243 Plus series	Χ	Х	Х	Х			Χ			Χ		Χ	Х	Χ	Х	Χ	Χ	Χ	Χ	Х	Х	Х	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ
TTP-244ME series	Х	Х	Х	Х		Х			Χ			Χ	Х	Х	Х	Χ	Χ	Χ	Х	Х	Х	Х	Χ	Χ	Χ	Χ	Χ					
TTP-244ME Plus series	Χ	Х	Х	Х			Χ			Χ		Χ	Х	Х	Х	Χ	Χ	Χ	Х	Х	Х	Х	Χ	Х	Χ	Χ	Χ	Х	Χ	Χ	Χ	Χ
TTP-244 series	Χ	Х	Х	Х			Χ			Χ		Χ	Χ	Х	Х	Χ	Χ	Χ	Χ	Х	Х	Х	Χ	Χ	Χ	Χ	Χ	Х	Χ	Χ	Χ	Χ
TTP-244CE series	Х	Х	Х	Х			Χ			Χ		Х	Х	Х	Х	Χ	Χ	Χ	Χ	Х	Х	Х	Χ	Χ	Χ	Χ	Χ	Х	Χ	Χ	Х	Χ
TTP-245 series	Χ	Х	Х	Х	Χ			Χ			Χ	Х	Х	Х	Х	Χ	Χ	Χ	Χ	Х	Х	Х	Χ	Χ	Χ	Χ	Χ	Х	Χ	Χ	Х	Χ
TTP-245C series	Χ	Х	Х	Х	Χ			Χ			Χ	Χ	Χ	Х	Χ	Χ	Χ	Χ	Χ	Х	Х	Х	Χ	Χ	Χ	Χ	Χ	Х	Χ	Χ	Χ	Χ
TDP-245 series	Χ	Х	Х	Х	Х			Χ			Χ	Χ	Х	Х	Х	Χ	Χ	Χ	Χ	Х	Х	Х	Χ	Χ	Χ	Χ	Χ	Х	Χ	Χ	Х	Χ
TTP-246M series	Х	Х	Х	Х	Х			Χ			Х	Х	Х	Х	Х	Х	Х	Х	Χ	Х	Х	Х	Χ	Χ	Χ	Х	Х	Х	Χ	Χ	Χ	Χ
TTP-248M series	Χ	Х	Х	Х	Х			Χ			Х	Х	Х	Х	Х	Х	Х	Х	X	Х	Х	Х	Χ	Х	Χ	Х	Х	Х		Χ	Χ	Χ
TTP-2410M series	X	Χ	Х	Χ			Χ			Х		Χ	Х	Χ	Х	Х	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Х	Χ	Χ	Χ	Χ
TDP-643 Plus series	X	Χ	Х	Χ		Χ			Χ			Χ	X	Χ	X	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ					
TDP-643R Plus series	Χ	Х	Х	Х			Χ			Χ		Χ	Χ	Х	Χ	Χ	Χ	Χ	X	Χ	Х	Х	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ
TTP-342 series	X	Χ	Х	Х		Χ			Χ			Χ	Χ	Χ	Х	Х	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ					
TTP-342 Plus series	X	Χ	Х	Х			Χ			Χ		Χ	Χ	Χ	Х	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Х	Χ	Χ	Χ	Χ
TTP-342M series	Χ	Х	Х	Х		Χ			Χ			Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ					
TTP-342M Plus series	Х	Х	Х	Х			Χ			Х		Х	Х	Х	Х	Х	Х	Х	Χ	Х	Х	Х	Χ	Χ	Χ	Х	Х	Х	Х	Χ	Χ	Χ
TTP-343 series	X	Χ	Х	Χ	Χ			Χ			Χ	Χ	X	Χ	X	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ
TTP-343C series	X	Χ	Х	Χ	Χ			Χ			Χ	Χ	X	Χ	X	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ
TTP-344M series	Χ	Х	Х	Х	Х			Χ			Χ	Χ	Χ	Х	Χ	Х	Χ	Χ	Х	Χ	Х	Χ	Χ	Х	Χ	Χ	Χ	Х	Χ	Х	Х	Χ
TTP-346M series	Χ	Х	Х	Х			Χ			Х		Χ	Χ	Х	Χ	Х	Χ	Χ	Х	Χ	Х	Χ	Χ	Х	Χ	Χ	Χ	Х	Χ	Х	Х	Χ
TTP-384M series	Χ	Х	Х	Х			Χ			Χ		Χ	Χ	Х	Χ	Χ	Χ	Χ	Χ	Χ	Х	Х	Χ	Х	Χ	Χ	Χ	Х	Х	Χ	Χ	Χ
TTP-644M series	Χ	Х	Х	Х			Χ			Χ		Χ	Χ	Х	Χ	Χ	Χ	Χ	Х	Χ	Х	Х	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ
M23 series	Χ	Χ	Χ	Χ	Χ			Χ			Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X	Χ	Χ	Χ	Χ

BITMAP

Description

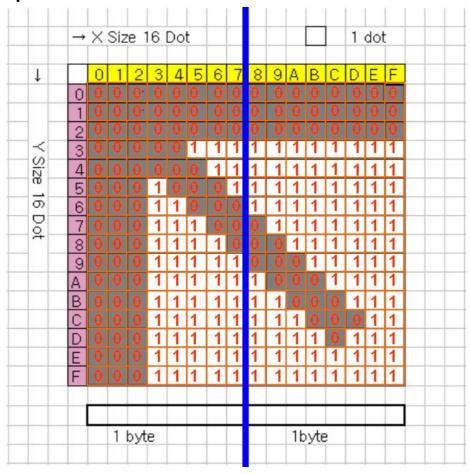
This command draws bitmap images (as opposed to BMP graphic files).

Syntax

BITMAP X, Y, width, height, mode, bitmap data...

<u>Parameter</u>	<u>Description</u>
X	Specify the x-coordinate
Υ	Specify the y-coordinate
width	Image width (in bytes)
height	Image height (in dots)
mode	Graphic modes listed below:
0	OVERWRITE
1	OR
2	XOR
bitmap data	Bitmap data

Example



ROW	L-E	Byte	R-E	Byte		
(Y- axis)	Binary	Hexadecimal	Binary	Hexadecimal		
0	00000000	00	0000000	00		
1	00000000	00	00000000	00		
2	00000000	00	00000000	00		
3	00000111	07	11111111	FF		
4	00000011	03	11111111	FF		
5	00010001	11	11111111	FF		
6	00011000	18	11111111	FF		
7	00011100	1C	01111111	7F		
8	00011110	1E	00111111	3F		
9	00011111	1F	00011111	1F		
A	00011111	1F	10001111	8F		
В	00011111	1F	11000111	C7		
С	00011111	1F	11100011	E3		
D	00011111	1F	11110111	F7		
Е	00011111	1F	11111111	FF		
F	00011111	1F	11111111	FF		

Hexadecimal	ASCII				
53 49 5A 45 20 34 2C 32 0D 0A 47 41	SIZE 4,2				
50 20 30 2C 30 0D 0A 43 4C 53 0D 0A	GAP 0,0				
42 49 54 4D 41 50 20 32 30 30 2C 32	CLS				
30 30 2C 32 2C 31 36 2C 30 2C 00 00	BITMAP 200,200,2,16,0,				
00 00 00 00 07 FF 03 FF 11 FF 18 FF	• [⊥] 				
1C 7F 1E 3F 1F 1F 1F 8F 1F C7 1F E3	PRINT 1,1				
1F E7 1F FF 1F FF 0D 0A 50 52 49 4E					
54 20 31 2C 31 0D 0A					

See Also PUTBMP, PUTPCX

BOX

Description

This command draws rectangles on the label.

Syntax

BOX X_start, Y_start, X_end, Y_end, line thickness

<u>Parameter</u>	<u>Description</u>
X_start	Specify x-coordinate of upper left corner (in dots)
Y_start	Specify y-coordinate of upper left corner (in dots)
X_end	Specify x-coordinate of lower right corner (in dots)
Y_end	Specify y-coordinate of lower right corner (in dots)
line thickness	Line thickness (in dots)

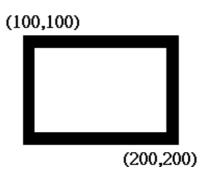
Note: 200 DPI: 1 mm = 8 dots 300 DPI: 1 mm = 12 dots

Recommended max. thickness of box is 12mm at 4" width. Thickness of box larger than 12 mm may damage the power supply and affect the print quality.

Max. print ratio is different for each printer model. Desktop and industrial printer print ratio is limited to 20% and 30% respectively.

Example

SIZE 4,2.5 GAP 0,0 SPEED 6 DENSITY 8 DIRECTION 0 CLS BOX 100,100,200,200,5 PRINT 1,1



See Also

BAR

• CIRCLE

Description

This command draws circle on the label.

Syntax

CIRCLE X_start, Y_start, diameter, circle thickness

<u>Parameter</u>	<u>Description</u>
X_start	Specify x-coordinate of upper left corner (in dots)
Y_start	Specify y-coordinate of upper left corner (in dots)
diameter	Specify the diameter of the circle (in dots)
thickness	Thickness of the circle (in dots)

Example

SIZE 80 mm, 30 mm GAP 0,0 DIRECTION 1 CLS BAR 250,20,100,1 BAR 250,20,1,100 CIRCLE 250,20,100,1 PRINT 1

DMATRIX

Description

This command is used to define the DataMatrix 2D bar code. Currently, only ECC200 error correction is supported.

Syntax

DMATRIX x, y, width, height, [xm,row,col], expression

<u>Parameter</u>	<u>Description</u>
X	Horizontal start position (in dots)
У	Vertical start position (in dots)
width	The expected width of barcode area (in dots)
height	The expected height of barcode area (in dots)
xm	Module size (in dots)
row	Symbol size of row: 10 to 144
col	Symbol size of col: 10 to 144

Example

```
SIZE 3,3
GAP 0,0
SPEED 4
DENSITY 8
DIRECTION 0
REFERENCE 0,0
OFFSET 0.00
SET CUTTER OFF
SET TEAR ON
CLS
DMATRIX 10,110,400,400,"DMATRIX EXAMPLE 1"
DMATRIX 310,110,400,400,x6,"DMATRIX EXAMPLE 2"
DMATRIX 10,310,400,400,x8,18,18,"DMATRIX EXAMPLE 3"
```

PRINT 1,1

• ERASE

Description

This command clears a specified region in image buffer.

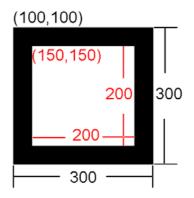
Syntax

ERASE X_start, Y_start, X_width, Y_height

<u>Parameter</u>	<u>Description</u>
X_start	The x-coordinate of the starting point (in dots)
Y_start	The y-coordinate of the starting point (in dots)
X_width	The region width in x-axis direction (in dots)
Y height	The region height in y-axis direction (in dots)

Example

SIZE 4,2.5 GAP 0,0 SPEED 6 DENSITY 8 DIRECTION 0 CLS BAR 100, 100, 300, 300 ERASE 150,150,200,200 PRINT 1,1



See Also

CLS

MAXICODE

Description

This command defines a 2D Maxicode.

Syntax

MAXICODE x, y, mode, [class, country, post, Lm,] "message"

For mode 2 or 3:

MAXICODE x, y, mode, class, country, postal code, "low priority message"

If country is 840, the postal code is in 99999,9999 format.

For other countries, the code is up to 6 alphanumeric characters.

For mode 4,5,6 MAXICODE x, y, mode, [Lm], "message"

Note: Mode 6 is not supported in TSPL2 printers firmware.

<u>Parameter</u>	<u>Description</u>
Χ	X-coordinate of the staring point in dot
у	Y-coordinate of the starting point in dot
mode	2,3,4,5
class	Class of service, 3-digit number (for mode 2,3)
country	Country code, 3-digit number (for mode 2,3)
post	Post code (for mode 2,3)
	Mode 2: (USA) 5-digit+ 4-digit number
	Mode3: (Canada) 6 alphanumeric post code
	included by double quotes.
Lm	Expression length (double quote is ignored) , 1≰n⊴38,
	(this parameter is just for mode 4 and 5.)
message	Barcode content

Example

SIZE 4,2
GAP 0,0
CLS
SPEED 4
DENSITY 8
OFFSET 0.00
REFERENCE 0,0
SET CUTTER OFF
SET TEAR ON

REM *****Mode 2 For USA*****

MAXICODE 110,100,2,300,840,06810,7317,"DEMO 2 FOR USA

^{*} AIM special format is supported, see page 23 in the spec.

MAXICODE" TEXT 100,520,"3",0,2,2,"Mode 2 For USA" PRINT 1,1

REM *****Mode 3 For Canada*****
CLS
MAXICODE 110,100,3,300,863,"107317","DEMO 3 FOR CANADA
MAXICODE"
TEXT 100,520,"3",0,2,2,"Mode 3 For CANADA"
PRINT 1,1

REM *****MODE4*****
CLS
MAXICODE 110,100,4,"DEMO 4 FOR MAXICODE"
MAXICODE 600,100,4,19,DEMO 4 FOR MAXICODE
TEXT 100,520,"3",0,2,2,"Mode 4 FOR MAXICODE"
PRINT 1,1

REM *****MODE 5*****
CLS
MAXICODE 110,100,5,"DEMO 5 FOR MAXICODE"
MAXICODE 600,100,5,19,DEMO 5 FOR MAXICODE
TEXT 100,520,"3",0,2,2,"DEMO 5 FOR MAXICODE"
PRINT 1

PDF417

Description

This command defines a PDF417 2D barcode.

Syntax

PDF417 x, y, width, height, rotate, [option], expression

<u>Parameter</u> <u>Description</u>

x X-coordinate of starting point (in dots) y Y-coordinate of starting point (in dots)

width Expected width (in dots)
height Expected height (in dots)
rotate Rotation counterclockwise.

 0:
 No rotation

 90:
 90 degrees

 180:
 180 degrees

 270:
 270 degrees

expression Barcode text or string expression to be printed.

[option]

P Data compression method

0: Auto encoding1: Binary mode

E Error correction level

Range: 0~8

M Center pattern in barcode area

0: The pattern will print upper left justified the area

1: The pattern is printed middle of area

Ux,y,c Human readable

x: Human readable characters in the specified

x-coordinate

y: Human readable characters in the specified

y-coordinate

c: Maximum characters of human readable character

per line

W Module width in dot

Range: 2~9
Bar height in dot
Range: 4~99

R Maximum number of rows
C Maximum number of columns

T Truncation.

0: Not truncated1: Truncated

Lm Expression length (without double quote), 1 ≤n ≤2048

Example

Н

SIZE 3,3 GAP 0.12,0 CLS SPEED 6 DENSITY 8 DIRECTION 1 REFERENCE 0,0

REM *****WITHOUR OPTIONS*****

CLS

PDF417 50,50,400,200,0,"Without Options" PRINT 1,1

REM *****OPTION:E4*****

CLS

PDF417 50,50,400,200,0,E4,"Error correction level:4" PRINT 1,1

REM *****OPTION:E4 W4*****

CL S

PDF417 50,50,600,600,0,E4,W4,"Error correction level:4 module width 4 dots"
PRINT 1,1

REM *****OPTION:E4 W4 H4*****

CLS

PDF417 50,50,600,600,0,E4,W4,H4,"Error correction level:4 module width 4 dots bar height 4 dots"
PRINT 1,1

REM *****OPTION:E4 W4 H4 R25*****

CLS

PDF417 50,50,600,600,0,E4,W4,H4,R25,"Error correction level:4

Module Width 4 dots
Bar Height 4 dots

Maximum Number of Rows: 25 Rows

"

PRINT 1,1

REM *****OPTION:E4 W4 H4 R40 C3*****

CLS

PDF417 50,50,600,600,0,E4,W4,H4,R40,C3,"Error correction level:4

Module Width 4 dots Bar Height 4 dots

Maximum Number of Rows: 40 Rows Maximum number of columns: 3 Cols

"

PRINT 1,1

REM *****OPTION:E4 W4 H4 R40 C4 T0*****

CLS

PDF417 50,50,600,600,0,E4,W4,H4,R40,C4,T0,"Error correction level:4

Module Width 4 dots Bar Height 4 dots

Maximum Number of Rows: 40 Rows Maximum number of columns: 4 Cols

Truncation:0

"

PRINT 1,1

REM *****OPTION:E4 W4 H4 R40 C4 T1*****

CLS

PDF417 50,50,900,900,0,E4,W4,H4,R40,C4,T1,"Error correction level:4

Module Width 4 dots Bar Height 4 dots

Maximum Number of Rows:5 Rows
Maximum number of columns:90 Cols

Truncation:1

PRINT 1,1

REM *****OPTION:E4 W4 H4 R40 C4 T0 L169*****

CLS

PDF417 50,50,900,900,0,E4,W4,H4,R40,C4,T0,L169,Error correction

level:4

Module Width 4 dots

Bar Height 4 dots

Maximum Number of Rows: 40 Rows Maximum number of columns: 4 Cols

Truncation:0

Expression length: 167

PRINT 1,1

REM *****OPTION:E4 W4 H4 R40 C4 T1 L169*****

CLS

PDF417 50,50,900,900,0,E4,W4,H4,R40,C4,T1,L169,Error correction

level:4

Module Width 4 dots

Bar Height 4 dots

Maximum Number of Rows: 40 Rows Maximum number of columns: 4 Cols

Truncation:1

Expression length: 169

PRINT 1,1

REM *****OPTION:P0 E4 W4 H4 R40 C4 T1 L169*****

CLS

PDF417 50,50,900,900,0,P0,E4,W4,H4,R40,C4,T1,L169,Error correction

level:4

Module Width 4 dots
Bar Height 4 dots

Maximum Number of Rows: 40 Rows Maximum number of columns: 4 Cols

Truncation:1

Expression length: 169

PRINT 1.1

REM *****OPTION:P0 E4 M0 W6 H6 R60 C4 T0 L283*****

SIZE 3,2

CLS

PDF417 50,50,900,600,0,P0,E4,M0,W6,H6,R60,C4,T0,L283,Data

compression method: P0 Error correction level: E4

Center pattern in barcode area: M0

Human Readable: No Module Width 6 dots: W6 Bar Height 6 dots: H6

Maximum Number of Rows: 60 Rows: R60 Maximum number of columns: 4 Cols: C4

Truncation:0: T0

Expression length:283: L283

PRINT 1,1

REM *****OPTION:P1 E4 M1 U100,500,10 W4 H4 R60 C4 T1 L297*****

CLS PDF417

50,50,900,600,0,P1,E4,M1,U100,500,10,W6,H6,R60,C4,T1,L297,Data

compression method: P1 Error correction level: E4

Center pattern in barcode area: M1 Human Readable: Yes: U100,300,10

Module Width 6 dots: W6 Bar Height 6 dots: H6

Maximum Number of Rows: 60 Rows: R60 Maximum number of columns: 4 Cols: C4

Truncation:1: T1

Expression length:297: L297

PRINT 1,1

• PUTBMP

Description

This command prints BMP format images.

Syntax

PUTBMP X, Y, "filename"

<u>Parameter</u>	<u>Description</u>
X	The x-coordinate of the BMP format image
Υ	The y-coordinate of the BMP format image
filename	The downloaded BMP filename.

Model	PUTBMP Command Supported
TTP-243 series	
TTP-243 Plus series	X
TTP-244ME series	
TTP-244ME Plus series	X
TTP-244 series	X
TTP-244CE series	X
TTP-245 series	X
TTP-245C series	X
TDP-245 series	X
TTP-246M series	X
TTP-248M series	
TTP-2410M series	X
TDP-643 Plus	
TDP-643R Plus	X
TTP-342 series	
TTP-342 Plus series	X
TTP-342M series	
TTP-342M Plus series	X
TTP-343 series	X
TTP-343C series	X
TTP-344M series	X
TTP-346M series	X
TTP-384M series	X
TTP-644M series	X
M23 series	Χ

Example

See Also

DOWNLOAD, BITMAP, PUTPCX

• PUTPCX

Description

This command prints PCX format images.

TSPL language supports 2-color PCX format graphics.

TSPL2 language supports 256-color PCX format graphics.

Model	Support		
iviodei	2 – color PCX	256 – color PCX	
TTP-243 series	X		
TTP-243 Plus series	X	X	
TTP-244ME series	X		
TTP-244ME Plus series	X	X	
TTP-244 series	X	X	
TTP-244CE series	Χ	X	
TTP-245 series	X	X	
TTP-245C series	X	X	
TDP-245 series	Χ	Х	
TTP-246M series	X	X	
TTP-248M series	X	X	
TTP-2410M series	Χ	X	
TDP-643 Plus	X		
TDP-643R Plus	X	X	
TTP-342 series	X		
TTP-342 Plus series	X	X	
TTP-342M series	X		
TTP-342M Plus series	X	X	
TTP-343 series	X	X	
TTP-343C series	X	X	
TTP-344M series	X	X	
TTP-346M series	X	X	
TTP-384M series	X	X	
TTP-644M series	X	Х	
M23 series	X	X	

Syntax

PUTPCX X, Y, "filename"

<u>Parameter</u>	<u>Description</u>
X	The x-coordinate of the PCX image
Υ	The y-coordinate of the PCX image
filename	The downloaded PCX filename. Case sensitive

Example

See Also

DOWNLOAD, BITMAP, PUTPCX

QRCODE

Description

This command prints QR code

Model	QR Code
TTP-243 series	
TTP-243 Plus series	Х
TTP-244ME series	
TTP-244ME Plus series	Х
TTP-244 series	X
TTP-244CE series	X
TTP-245 series	Х
TTP-245C series	Х
TDP-245 series	X
TTP-246M series	X
TTP-248M series	
TTP-2410M series	X
TDP-643 Plus	
TDP-643R Plus	Х
TTP-342 series	
TTP-342 Plus series	X
TTP-342M series	
TTP-342M Plus series	X
TTP-343 series	Х
TTP-343C series	Х
TTP-344M series	Х
TTP-346M series	Х
TTP-384M series	Х
TTP-644M series	Х
M23 series	Х

Syntax

QRCODE X, Y, ECC Level, cell width, mode, rotation, [model, mask,]"Data string"

<u>Parameter</u>	<u>Description</u>
X	The upper left corner x-coordinate of the QR code
Υ	The upper left corner y-coordinate of the QR code
ECC level	Error correction recovery level
L	7%
M	15%
Q	25%
Н	30%
cell width	1~10

mode	Auto / manual encode
Α	Auto
M	Manual
rotation	
0	0 degree
90	90 degree
180	180 degree
270	270 degree
model	
M1	(default), original version
M2	enhanced version
mask	S0~S8, default is S7
Data string	The encodable character set is described as below

Encodable character set:

- 1). Numeric data: (digits 0~9)
- 2). Alphanumeric data (digits 0-9; upper case letters A-Z; nine other characters: space, \$ % * + . / :);
- 3). 8-bit byte data (JIS 8-bit character set (Latin and Kana) in accordance with JIS X 0201);
- Kanji characters (Shift JIS values 8140_{HEX} –9FFC_{HEX} and E040_{HEX} –EAA4_{HEX}. These are values shifted from those of JIS X 0208. Refer to JIS X 0208 Annex 1 Shift Coded Representation for detail.).

Data characters per symbol (for maximum symbol size):

<u>IMC</u>	<u>del 1 (Version 14-L)</u>	Model 2 (Version 40-L)
1). Numeric data:	1,167 characters	7,089 characters
2). Alphanumeric data:	707 characters	4,296 characters
3). 8-bit byte data:	486 characters	2,953 characters
4). Kanji data:	299 characters	1,817 characters

^{*}If "A" is the first character in the data string, then the following data after "A" is Alphanumeric data.

Example

^{*}If "N" is the first character in the data string, then the following data after "N" is numeric data.

^{*}If "B" is the first character in the data string, then the following 4 digits after "B" is used to specify numbers of data. After the 4 digits is the number of bytes of binary data to be encoded.

^{*}If "K" is the first character in the data string , then the following data after "K" is Kanji data.

^{*}If "!" is in the data string and follows by "N", "A", "B", "K" then it will be switched to specified encodable character set.

```
Manual mode example:
        QRCODE 100,10,L,7,M,0,M1,S1,"ATHE FIRMWARE HAS BEEN
        UPDATED"
        (Where A: Alphanumeric data)
        QRCODE 100,10,M,7,M,0,M1,S2,"N123456"
        (Where N: Numeric data)
        QRCODE 100,10,Q,7,M,0,M1,S3,"N123456!ATHE FIRMWARE HAS
        BEEN UPDATED"
        (Where N: Numeric data; !:Transfer char; A: Alphanumeric data)
        QRCODE 100,10,H,7,M,0,M1,S3,"B0012Product name"
        (where B: Binary data
                            ; 0012: 12 bytes )
        QRCODE 100,10,M,7,M,0,M1,S3,"K"
        (Where K: Kanji data)
        Auto mode example:
        QRCODE 100,10,M,7,A,0,"THE FIRMWARE HAS BEEN UPDATED"
(1) Auto mode example
  a. General data string
     SIZE 4,2.5
     GAP 0.12.0
     CLS
     QRCODE 10,10,H,4,A,0,"ABCabc123"
     QRCODE 160,160,H,4,A,0,"123ABCabc"
     QRCODE 310,310,H,4,A,0,"印表機 ABCabc123"
     PRINT 1,1
  b. Data string including <Enter> character (0Dh, 0Ah)
     SIZE 4,2.5
     GAP 0.12,0
     CLS
     QRCODE 10,10,H,4,A,0,"ABC<Enter>
     abc<Enter>
     123"
     QRCODE 160,160,H,4,A,0,"123<Enter>
     ABC<Enter>
     abc"
     QRCODE 310,310,H,4,A,0,"印表機<Enter>
     ABC<Enter>
     abc<Enter>
     123"
     PRINT 1,1
  c. Data string concatenation (Must be used with DOWNLOAD ... EOP
     command)
     DOWNLOAD "DEMO.BAS"
     SIZE 4,2.5
     CAP 0.12,0
     CLS
     QRCODE 10,10,H,4,A,0,"ABCabc123"+STR$(1234)
     QRCODE 160,160,H,4,A,0,"123ABCabc"+"1234"
```

```
QRCODE 310,310,H,4,A,0,"印表機 ABCabc123"+"1234"+"abcd"
     PRINT 1,1
     EOP
     DEMO
  d. Data string including double quote (") character, please use \["] instead of
     SIZE 4.2.5
     CAP 0.12,0
     CLS
     QRCODE 10,10,H,4,A,0,"ABC\["]abc\["]123"
     QRCODE 160,160,H,4,A,0,"123\["]ABC\["]abc"
     QRCODE 310,310,H,4,A,0,"\["]印表機\["]ABCabc123"
     PRINT 1.1
(3) Manual mode
  a. General data string:
     SIZE 4,2.5
     CAP 0.12,0
     CLS
     QRCODE 10.10.H.4.M.0."AABC!B0003abc!N123"
     QRCODE 160,160,H,4,M,0,"N123!AABC!B0003abc"
     QRCODE 310,310,H,4,M,0,"K 印表機!AABC!B0006abc123"
     PRINT 1.1
  b. Data string including <Enter> character, <Enter> is an 8-bit byte data
     SIZE 4,2.5
     CAP 0.12,0
     CLS
     QRCODE 10,10,H,4,M,0,"AABC!B0007<Enter>
     abc<Enter>
     !N123"
     QRCODE 160,160,H,4,M,0,"N123!B0002<Enter>
     !AABC!B0005<Enter>
     abc"
     QRCODE 310,310,H,4,M,0,"K 印表機!B0002<Enter>
     !AABC!B0010<Enter>
     abc<Enter>
     123"
      PRINT 1,1
  c. Data string concatenation (Must be used with DOWNLOAD ... EOP
     command)
     DOWNLOAD "A.BAS"
     SIZE 4,2.5
     CAP 0.12,0
     CLS
     QRCODE 10,10,H,4,M,0,"AABC!B0006abc123!N"+STR$(1234)
     QRCODE 160,160,H,4,M,0,"N123!AABC!B0007abc"+"1234"
     QRCODE 310,310,H,4,M,0,"K 印表
     機!AABC!B0014abc123"+"1234"+"abcd"
     PRINT 1,1
```

EOP A

d. Data string including double quote (") character, please use \["] instead of

SIZE 4,2.5 CAP 0.12,0 CLS

QRCODE 10,10,H,4,M,0,"AABC!B0005\["]abc\["]!N123" QRCODE 160,160,H,4,M,0,"N123!B0001\["]!AABC!B0004\["]abc" QRCODE 310,310,H,4,M,0,"B0001\["]!K 印表機!B0010\["]ABCabc123" PRINT 1,1

RSS

Description

This command is used to draw a RSS bar code on the label format

Syntax

RSS x,y,"sym",rotate,pixMult,sepHt,"content"

RSS x,y,"RSSEXP",rotate,pixMult,sepHt,segWidth,"content" RSS x,y,"UCC128CCA",rotate,pixMult,sepHt,linHeight,"content" RSS x,y,"UCC128CCC",rotate,pixMult,sepHt,linHeight,"content"

<u>Parameter</u>	<u>Description</u>
X	X-coordinate Y-coordinate
y	Symbology type:
sym	RSS14: RSS14
	RSS14T: RSS14 Truncated
	RSS14S: RSS14 Stacked
	RSS14SO: RSS14 Stacked Omnidirectional
	RSSLIM: RSS Limited
	RSSEXP: RSS Expanded
	UPCA: UPC-A
	UPCE: UPC-E
	EAN13: EAN-13
	EAN8: EAN-8
	UCC128CCA: UCC/EAN-128 & CC-A/B
	UCC128CCC - UCC/EAN-128 & CC-C
Rotate	Rotation (0, 90, 180, and 270 valid)
pixMult	Pixels per X (1 to 10 valid)
sepHt	Separator row height (1 and 2 valid)
segWidth	Segment width of RSS expanded (even 2 to 22 valid)
linHeight	UCC/EAN-128 height in X (1 to 500 valid)
content	Barcode content or string expression

Note: 200 DPI: 1 mm = 8 dots

300 DPI: 1 mm = 12 dots

Recommended max. height of reversed black area is 12mm at 4" width. Height of reversed area that is larger than 12 mm may damage the power supply and affect the print quality.

Max. print ratio is different for each printer model. Desktop and industrial printer print ratio is limited to 20% and 30%

respectively.

Example

```
SIZE 100 mm,100 mm
GAP 0,0
CLS
RSS 300,300,"RSS14",0,2,2,"1234567890|ABCDEFG"
RSS 300,300,"RSS14T",90,2,2,"1234567890|ABCDEFG"
RSS 300,300,"RSS14S",180,2,2,"1234567890|ABCDEFG"
RSS 300,300,"RSS14SO",270,2,2,"1234567890|ABCDEFG"
PRINT 1,1
SIZE 100 mm, 100 mm
GAP 0,0
CLS
RSS 300,300,"RSSLIM",0,2,2,"1234567890|ABCDEFG"
RSS 300,300, "RSSEXP", 90,2,2,22, "1234567890 | ABCDEFG"
RSS 300,300,"UPCA",180,2,2,"1234567890|ABCDEFG"
RSS 300,300,"UPCE",270,2,2,"000|ABCDEFG"
PRINT 1,1
SIZE 100 mm, 100 mm
GAP 0,0
CLS
RSS 300,300,"EAN13",0,2,2,"123456789012|ABCDEFG"
RSS 300,300,"EAN8",90,2,2,"1234567|ABCDEFG"
RSS 300,300,"UCC128CCA",180,2,2,25,"1234567890|ABCDEFG"
RSS 300,300,"UCC128CCC",270,2,2,25,"1234567890|ABCDEFG"
PRINT 1,1
```

REVERSE

Description

This command reverses a region in image buffer.

Syntax

REVERSE X start, Y start, X width, Y height

<u>Parameter</u>	<u>Description</u>
X_start	The x-coordinate of the starting point (in dots)
Y_start	The y-coordinate of the starting point (in dots)
X_width	X-axis region width (in dots)
Y_height	Y-axis region height (in dots)

Note: 200 DPI: 1 mm = 8 dots 300 DPI: 1 mm = 12 dots

Recommended max. height of reversed black area is 12mm at 4" width. Height of reversed area that is larger than 12 mm may damage the power supply and affect the print quality.

Max. print ratio is different for each printer model. Desktop and industrial printer print ratio is limited to 20% and 30% respectively.

Example

SIZE 4,2.5 GAP 0,0 SPEED 6 DENSITY 8 DIRECTION 0 CLS TEXT 100,100,"3",0,1,1,"REVERSE" REVERSE 90,90,128,40 PRINT 1,1



TEXT

Description

This command prints text on label

Note:

- (1). The internal font (font #1~#5) pitch between TSPL and TSPL2 is different.
- (2). Font "0" and "ROMAN.TTF" internal True Type Fonts are available in TSPL2 language printers, but not TSPL language printers.

Syntax

TEXT X, Y, "font", rotation, x-multiplication, y-multiplication, "content"

<u>Parameter</u>	Description			
X	The x-coordinate of the text			
Y	The y-coordinate of the text			
font	Font name			
0	Monotye CG Triumvirate Bold Condensed, font width			
	and height is stretchable			
1	8 x 12 fixed pitch dot font			
2	12 x 20 fixed pitch dot font			
3	16 x 24 fixed pitch dot font			
4	24 x 32 fixed pitch dot font			
5	32 x 48 dot fixed pitch font			
6	14 x 19 dot fixed pitch font OCR-B			
7	21 x 27 dot fixed pitch font OCR-B			
8	14 x25 dot fixed pitch font OCR-A			
ROMAN.TTF	Monotye CG Triumvirate Bold Condensed, font			
	width and height proportion is fixed			
Rotation	The rotation angle of text			
0	No rotation			
90	90 degrees, in clockwise direction			
90 180	90 degrees, in clockwise direction 180 degrees, in clockwise direction			
90 180 270	90 degrees, in clockwise direction 180 degrees, in clockwise direction 270 degrees, in clockwise direction			
180 270	180 degrees, in clockwise direction 270 degrees, in clockwise direction			
180	180 degrees, in clockwise direction 270 degrees, in clockwise direction Horizontal multiplication, up to 10x.			
180 270	180 degrees, in clockwise direction 270 degrees, in clockwise direction			
180 270	180 degrees, in clockwise direction 270 degrees, in clockwise direction Horizontal multiplication, up to 10x.			
180 270	180 degrees, in clockwise direction 270 degrees, in clockwise direction Horizontal multiplication, up to 10x. Available factors: 1~10 For "ROMAN.TTF" true type font, this parameter is ignored.			
180 270	180 degrees, in clockwise direction 270 degrees, in clockwise direction Horizontal multiplication, up to 10x. Available factors: 1~10 For "ROMAN.TTF" true type font, this parameter is ignored. For font "0", this parameter is used to specify the			
180 270	180 degrees, in clockwise direction 270 degrees, in clockwise direction Horizontal multiplication, up to 10x. Available factors: 1~10 For "ROMAN.TTF" true type font, this parameter is ignored. For font "0", this parameter is used to specify the width (point) of true type font.			
180 270	180 degrees, in clockwise direction 270 degrees, in clockwise direction Horizontal multiplication, up to 10x. Available factors: 1~10 For "ROMAN.TTF" true type font, this parameter is ignored. For font "0", this parameter is used to specify the width (point) of true type font. 1 point=1/72 inch.			
180 270	180 degrees, in clockwise direction 270 degrees, in clockwise direction Horizontal multiplication, up to 10x. Available factors: 1~10 For "ROMAN.TTF" true type font, this parameter is ignored. For font "0", this parameter is used to specify the width (point) of true type font.			
180 270 X-multiplication:	180 degrees, in clockwise direction 270 degrees, in clockwise direction Horizontal multiplication, up to 10x. Available factors: 1~10 For "ROMAN.TTF" true type font, this parameter is ignored. For font "0", this parameter is used to specify the width (point) of true type font. 1 point=1/72 inch.			
180 270 X-multiplication:	180 degrees, in clockwise direction 270 degrees, in clockwise direction Horizontal multiplication, up to 10x. Available factors: 1~10 For "ROMAN.TTF" true type font, this parameter is ignored. For font "0", this parameter is used to specify the width (point) of true type font. 1 point=1/72 inch. Vertical multiplication, up to 10x.			

the height (point) of true type font. 1 point=1/72 inch.

Note:

- 1. If there is any double quote (") within the text, please change it to \[\(\'' \)].
- 2. Font "0" and "ROMAN.TTF" internal True Type Fonts are available in TSPL2 language printers.
- 3. If font "0" is used, the font width and font height is stretchable by x-multiplication and y-multiplication parameter. It is expressed by pt (point). 1 point=1/72inch.

MODEL	Font Type									
	0	1	2	3	4	5	6	7	8	ROMAN.TTF
TTP-243 series		Χ	Χ	Χ	Χ	Χ				
TTP-243 Plus series		Χ	Χ	Χ	Χ	Χ				
TTP-244ME series		Χ	Χ	Χ	Х	Χ				
TTP-244ME Plus series		X	Χ	Χ	Χ	Χ				
TTP-244 series	Χ	X	Χ	Χ	Χ	Χ	Χ	X	Χ	X
TTP-244CE series	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X
TTP-245 series	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X
TTP-245C series	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X
TDP-245 series	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X
TTP-246M series	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X
TTP-248M series		Χ	Χ	Χ	Χ	Χ	Χ	Χ		X
TTP-2410M series	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X
TDP-643 Plus		Χ	Χ	Χ	Χ	Χ				
TDP-643R Plus		Χ	Χ	Χ	Χ	Χ				
TTP-342 series		Χ	Χ	Χ	Χ	Χ				
TTP-342 Plus series		Χ	Χ	Χ	Χ	Χ				
TTP-342M series		Χ	Χ	Χ	Χ	Χ				
TTP-342M Plus series		Χ	Χ	Χ	Χ	Χ				
TTP-343 series	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X
TTP-343C series	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X
TTP-344M series	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X
TTP-346M series	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X
TTP-384M series	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X
TTP-644M series	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X
M23	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	X	X

Example

SIZE 3,2

GAP 0.0

CLS

TEXT 100,100,"5",0,1,1,"\["]DEMO FOR TEXT\["]"

TEXT 100,200,"ROMAN.TTF",0,1,20,"\["]True Type Font Test Print\["]" PRINT 1,1

Status Polling Commands (RS-232)

• <ESC>!?

Description

This command obtains the printer status at any time, even in the event of printer error. An inquiry request is solicited by sending an <ESC> (ASCII 27, escape character) as the beginning control character to the printer. A one byte character is returned, flagging the printer status. A 0 signifies the printer is ready to print labels.

<u>Bit</u>	<u>Status</u>
0	Head opened
1	Paper jam
2	Out of paper
3	Out of ribbon
4	Pause
5	Printing
6	Cover opened (option)
	Environment Temperature over range (option)

Hex Receive	Printer Status
00	Normal
01	Head opened
02	Paper Jam
03	Paper Jam and head opened
04	Out of paper
05	Out of paper and head opened
80	Out of ribbon
09	Out of ribbon and head opened
0A	Out of ribbon and paper jam
0B	Out of ribbon, paper jam and head opened
0C	Out of ribbon and out of paper
0D	Out of ribbon, out of paper and head opened
10	Pause
20	Printing
80	Other error

Syntax

<ESC>!?

See Also

<ESC>!R

• <ESC>!R

Description

This command resets the printer. The beginning of the command is an ESCAPE character (ASCII 27). The files downloaded in memory will be deleted.

This command cannot be sent in dump mode.

Syntax

<ESC>!R

Parameter
N/ADescription
N/A

See Also

<ESC>!?

~!@

Description

This command inquires the mileage of the printer. The integer part of mileage is returned (the decimal part of mileage is not return). to the PC in ASCII characters. The ending character of mileage is 0x0D.

Syntax

~!@

<u>Parameter</u> <u>Description</u>

None N/A

Example

~!@

• ~!A

Description

This command inquires the free memory of the printer. The number of bytes of free memory is returned in decimal digits, with 0x0d as ending code of PC.

Syntax

~!A

Parameter
NoneDescription
N/A

Example

~!A

See Also

FILES

• ~!C

Description

This command inquires the presence of Real Time Clock. One byte is return from the printer, indicating whether or not the RTC is installed.

Return value	<u>Description</u>
0	RTC is not installed.
1	RTC is installed.

Syntax

~!C

<u>Parameter</u> <u>Description</u> N/A

Example

~!C

See Also

YEAR, MONTH, DATE, WEEK, HOUR, MINUTE, SECOND, @YEAR, @MONTH, @DATE, @DAY, @HOUR, @MINUTE, @SECOND

• ~!D

Description

This command enters the printer into DUMP mode. In DUMP mode, the printer outputs code directly without interpretation.

Syntax

~!D

Description <u>Parameter</u>

None N/A

Example ~!D

• ~!F

Description

This command inquires all about files resident in the printer memory, and fonts installed in the memory module.

The filename are returned in ASCII characters. Each file name ends with 0x0D. The ending character is 0x1A.

Entering this command multiple times will cycle through the files resident on memory.

Syntax

~!F

Parameter
NoneDescription
N/A

Example

~!F

See Also

FILES

● ~!|

Description

The command inquires the code page and country setting of the printer. The returned information is given in the following format:

code page, country code

ex: 8 bit: 437, 001 7 bit: USA, 001

Regarding the code pages and country codes supported by the printer, please refer to the **CODEPAGE** and **COUNTRY** command respectively.

Syntax

~!|

<u>Parameter</u> <u>Description</u>

None N/A

Example

~!|

See Also

COUNTRY, CODEPAGE

● ~!T

Description

This command inquires the model name and number of the printer. This information is returned in ASCII characters.

Printer Type	Returned String
TTP-243	TTP/TDP 243
TTP-243E	TTP/TDP 243E
TTP-243 Plus	TTP243P
TTP-243E Plus	TTP243EP
TTP-244ME	TTP/TDP 244ME
TTP-244ME Plus	TTP244MEP
TTP-245	TTP245
TTP-245C	TTP245C
TDP-245	TDP245
TTP-245G	TTP245G
TDP-245G	TDP245G
TTP-244	TTP244
TTP-244 Plus	TTP244Plus
TTP-244CE	TTP244CE
TTP-246M	TTP246M
TTP-246G	TTP246G
TTP-246M Plus	TTP246MP
TTP-248M	TTP248M
TTP-2410M	TTP2410M
TTP-342	TTP/TDP 342
TTP-342 Plus	TTP342MP
TTP-342M	TTP/TDP 342M
TTP-342M Plus	TTP342MP
TTP-344M	TTP344M
TTP-344M Plus	TTP344MP
TTP-346M	TTP346M
TTP-346M	TTP346M
TTP-384M	TTP384M
TTP-644M	TTP644M
TTP-343	TTP343
TTP-343C	TTP343C
M23	M23

Syntax

~!T

Parameter
NoneDescription
N/A

See Also

~!I, ~!F

Message Translation Protocols

● ~#

Description

The beginning identifier (~#) of the prompt message is sent from the printer to the KP-200 portable keyboard. The ending identifier is ~&.

- @0 following the ending identifier ~& is used to instruct keyboard to display the prompt in the first line of LCD display.
- @1 following the ending identifier ~& is used to instruct keyboard to display the prompt in the first line of LCD display.

If @0 or @1 are not present, prompt string will be displayed in first line of LCD and input data will be displayed in second line of LCD.

Syntax

~#Prompt~&[@0] ~#Prompt~&[@1]

ParameterDescriptionNoneN/A

Example

DOWNLOAD "A.BAS"
OUT "~#KP-200~&@0"
OUT "~#Testing~&@1"
EOP
A

See Also

INPUT, OUT

Commands for Windows Driver

• !B

Description

This command stores bitmap image data in the memory. Behind the nnn is the bitmap data.

Syntax

!Bnnn

<u>Parameter</u> <u>Description</u>

nnn The number of bytes of image data sent from PC

to printer, expressed in 3 decimal digits.

Example

!B100

See Also

BITMAP

• !J

Description

This command prints bitmap data at the specified position (in y-direction).

Syntax

!Jnnnn

<u>Parameter</u> <u>Description</u>

nnnn Print image at the specified position in y-direction.

The position is expressed in 4 decimal digits.

Example

!J0100

See Also

FEED

• !N

Description

This command prints a specified number of labels.

Syntax

!Nnnn

Description Parameter

Specifies the number of copies to be printed. nnn

Example !N001

File Management Commands ● DOWNLOAD

Description

"DOWNLOAD" is a header of the file that is to be saved in the printer's memory.

The downloaded files can be divided to two categories: program files and data files (including text data files, PCX graphic files and bitmap font files)
The detailed descriptions regarding the download syntax for different files are as follows:

Maximum numbers of file saved in DRAM:

50 files for TSPL/TSPL2 language printers.

Maximum numbers of file saved in Flash memory:

50 files for TSPL language printers

256 files for TSPL2 language desktop printers (TTP/TDP-245 / TTP-343 / TTP-244)

256 files for TSPL2 language industrial printers (TTP-246M/344M)

Model	Maximum numbers of file saved in		
Model	DRAM	FLASH	Ext. FLASH
TTP-243	50	50	256
TTP-243E	50	50	256
TTP-243 Plus	50	256	256
TTP-243E Plus	50	256	256
TTP-244ME	50	50	256
TTP-244ME Plus	50	256	256
TTP-244	50	256	
TTP-244 Plus	50	256	Depends on SD
	50	230	card capacity
TTP-244CE	50	256	
TTP-245	50	256	256
TTP-245 Plus	50	256	Depends on SD
11F-245 Flu5	30	230	card capacity
TDP-245	50	256	256
TDP-245 Plus	50	256	Depends on SD
1DF-243 Flus	30	230	card capacity
TTP-245G	50	256	256
TDP-245G	50	256	256
TTP-246M	50	256	256
TTP-246G	50	256	256
TTP-246M Plus	50	256	Depends on SD
			card capacity
TTP-248M	50	256	256
TTP-2410M	50	256	Depends on SD
I II -Z-TIUIVI	30		card capacity

TDP-643 Plus	50	50	
TDP-643R Plus	50	256	
TTP-342	50	50	256
TTP-342 Plus	50	256	256
TTP-342M	50	50	256
TTP-342M Plus	50	256	256
TTP-343	50	256	256
TTP-344M	50	256	256
TTP-344M Plus	50	256	256
TTP-346M	50	256	256
M23	50	256	256

If "AUTO.BAS" exists in the printer memory, it will be automatically executed upon printer startup. To disable the auto execution function, please follow the procedures below.

For TTP-245/TTP-343/TDP-245 series, 245C/343C/244CE series

Hold the FEED key and power on the switch. The LED color will be changed as following pattern.

Orange \rightarrow red (5 blinks) \rightarrow orange (5 blinks) \rightarrow green (5 blinks) \rightarrow solid green (for firmware version before V3.37)

Orange \rightarrow red (5 blinks) \rightarrow orange (5 blinks) \rightarrow green (5 blinks) \rightarrow green and orange (5 blinks) \rightarrow red and orange (5 blinks) \rightarrow solid green (V3.37)

Release the FEED key while LED becomes solid green to prevent the printer from running "AUTO.BAS".

For TTP-246M/TTP-344M series

Hold the FEED key and power on the switch. The ERROR LED will be on. Printer is now ready to use.

For TTP-2410M/TTP-246M PLUS series

Hold the PAUSE and FEED keys and power on the switch. "AUTO.BAS" will not be executed after printer initialization, and will now be ready for use. Alternatively, hold the PAUSE key and power on the switch. After sensor calibration, the "AUTO.BAS" will not be executed. Printer is now ready for use.

1. Download a program file

DOWNLOAD [n,]"FILENAME.BAS"

	-	-	
<u>Parameter</u>			<u>Description</u>

n Specify memory used to save downloaded files. n is ignored Download files to DRAM only. If you would like to

save the files from DRAM to Flash memory before turning off power, issue the MOVE

command to printer.

F: Download files to main board flash memory. E: Download files to expansion memory module.

FILENAME.BAS The filename resident in printer memory.

Note:

- (1). Ffilenames are case sensitive.
- (2). File extensions must be ".BAS"
- (3). Filenames must be in 8.3 format.
- (4). If memory is not specified, all files will be downloaded to DRAM.

No Battery is used to back up files in DRAM. which will be lost in the event printer power is lost.

2. Download a data file

DOWNLOAD [n,]"FILENAME", DATA SIZE, DATA CONTENT...where

<u>Parameter</u>	<u>Description</u>
n	Specify the memory location to save downloaded files.
n is ignored	Download files to DRAM only. If you would like to save the files from DRAM to Flash memory before turning off power, issue the MOVE command to printer. F: Download files to main board flash memory. E: Download files to expansion memory module.
FILENAME	The name of data file that will remain resident in the printer memory (case sensitive).
DATA SIZE	The actual size in bytes of the data file (without header)

Note:

- (1). For text data files, CR (carriage return) 0x0D and LF (Line Feed) 0x0A is the separator of data.
- (2). If memory is not specified, all files will be downloaded to DRAM.

No Battery is used to back up files in DRAM. which will be lost in the event printer power is lost.

	Support			
Model	DOWNLOAD	MOVE	DOWNLOAD	DOWNLOAD
	"filename"	INIOVE	F,"filename"	E,"filename"
TTP-243 series	X	X		
TTP-243 Plus series	X	X	X	
TTP-244ME series	X	X		
TTP-244ME Plus series	X	X	X	
TTP-244 series	X	X	X	
TTP-244CE series	X	X	X	
TTP-245 series	X	X	X	X
TTP-245C series	X	X	X	X
TDP-245 series	X	X	X	X
TTP-246M series	X	X	X	X
TTP-248M series	X		X	X
TTP-2410M series	X	X	X	X
TDP-643 Plus series	X	X		
TDP-643R Plus series	X	X	X	
TTP-342 series	X	X		
TTP-342 Plus series	Х	X	X	
TTP-342M series	X	X		
TTP-342M Plus series	X	X	X	
TTP-343 series	X	X	X	X
TTP-343C series	X	X	X	X
TTP-344M series	X	X	X	X
TTP-346M series	X	Х	Х	X
TTP-384M series	X	X	X	X
TTP-644M series	X	X	X	X
M23 series	X	X	X	X

Example

The example program listed below will download to printer SDRAM. DOWNLOAD "EXAMPLE.BAS"

SIZE 4,4

GAP 0,0

DENSITY 8

SPEED 6

DIRECTION 0

REFERENCE 0,0

SET CUTTER OFF

SET PEEL OFF

CLS

TEXT 100,100,"3",0,1,1,"EXAMPLE PROGRAM"

PRINT 1

EOP

Note: When writing a download program, "DOWNLOAD" header must be placed in the beginning of file, and "EOP" must be placed at the end of program.

To run the program, call the main filename without BAS extension or use RUN command to start the download program. Example:

- 1. Call the main filename C:\>COPY CON LPT1<ENTER> EXAMPLE<ENTER> <CTRL><Z> C:\>
- 2. Use Run command to start the program C:\>COPY CON LPT1<ENTER> RUN "EXAMPLE.BAS"<ENTER> <CTRL><Z> C:\>

Below is an example of downloading data file. DOWNLOAD "DATA",20,COMPUTER<Enter> 2001<Enter> 21<Enter>

Note: <ENTER> stands for keyboard "ENTER" key. In the above example, please press "ENTER" key instead of typing <ENTER>

See Also

EOP, RUN, PUTBMP, PUTPCX, INPUT

EOP

Description

End of program. To declare the start and end of BASIC language commands used in a program, DOWNLOAD "FILENAME.BAS" must be added in the first line of the program, and "EOP" statement at the last line of program.

Syntax

EOP

Example

DOWNLOAD "DEMO.BAS"
SIZE 4,4
GAP 0,0
DENSITY 8
SPEED 6
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
CLS
TEXT 100,100,"3",0,1,1,"DEMO PROGRAM"
PRINT 1
EOP

See Also

DOWNLOAD, EOP, INPUT

• FILES

Description

This command prints out the total memory size, available memory size and files lists (or lists the files through RS-232) in the printer memory (both FLASH memory and DRAM).

Syntax

FILES

Example

Follow the steps below to print out (or list through RS-232) files saved in printer memory using the DOS environment through serial port or parallel port connection.

```
C:\>MODE COM1 96,N,8,1<ENTER>
C:\>COPY CON COM1<ENTER>
FILES<ENTER>
<CTRL><Z><ENTER>
C:\>

Or

C:\>COPY CON LPT1<ENTER>
FILES<ENTER>
<CTRL><Z><ENTER>
```

Note: <ENTER> stands for PC keyboard "ENTER" key.

<CTRL><Z> means to hold PC keyboard "CTRL" key then press
the PC keyboard <Z> key.

See Also

~!F, KILL

• KILL

Description

This command deletes a file in the printer memory. The wild card (*) will delete all files resident in specified DRAM or FLASH memory.

		Sup	port	
Model	KILL "*"	KILL "*" MOVE	KILL F,"*"	KILL E,"*"
TTP-243 series	X	X		
TTP-243 Plus series	X		X	
TTP-244ME series	X	X		
TTP-244ME Plus series	X		X	
TTP-244 series	X		X	
TTP-244CE series	X		X	X
TTP-245 series	Х		Х	X
TTP-245C series	X		Х	X
TDP-245 series	X		X	X
TTP-246M series	X		X	X
TTP-248M series	X		X	X
TTP-2410M series	X		X	X
TDP-643 Plus series	X	X		
TDP-643R Plus series	X		X	
TTP-342 series	X	X		
TTP-342 Plus series	X		X	
TTP-342M series	X	X		
TTP-342M Plus series	X		X	
TTP-343 series	Х		Х	Х
TTP-343C series	Х		Х	Х
TTP-344M series	Х		Х	Х
TTP-346M series	Х		Х	Х
TTP-384M series	Х		Х	Х
TTP-644M series	Х		Х	Х
M23 series	X		Х	Х

Syntax

KILL [n],"FILENAME"

<u>Parameter</u>	<u>Description</u>
n	Specify the memory location that files will be
	deleted.
n is ignored	Kill files saved in DRAM.
	F: Kill files from main board flash memory.
	E: Kill files from expansion memory module.

Note:

(1). If optional parameter n is not specified, firmware will delete the file in DRAM.

Syntax example

- 1. KILL "FILENAME"
- 2. KILL "*.PCX"
- 3. KILL "*"
- 4. KILL F, "FILENAME"
- 5. KILL E, "*. PCX"
- (3). For TSPL printers, please send MOVE command to printer after sending KILL command.

Example

Users can use printer SELFTEST utility to list printer configurations and files saved in the printer memory, or use the FILES command to print the downloaded file list in printer. Follow the steps below to delete files in the printer memory via parallel port connection.

C:\>COPY CON LPT1<ENTER>

FILES<ENTER>

<CTRL><Z><ENTER>

C:\>COPY CON LPT1<ENTER>

KILL "DEMO.BAS" <ENTER>

<CTRL><Z><ENTER>

C:\>COPY CON LPT1<ENTER>

FILES<ENTER>

<CTRL><Z><ENTER>

Note: <ENTER> stands for PC keyboard "ENTER" key.

<CTRL><Z> means to hold PC keyboard "CTRL" key then press
the PC keyboard <Z> key

See Also

~!F, FILES

MOVE

Description

This command moves downloaded files from DRAM to FLASH memory.

Syntax

MOVE

<u>Parameter</u> **Description** N/A

N/A

See Also

DOWNLOAD, EOP

RUN

Description

This command executes a program resident in the printer memory This command is available for TSPL2 language printers only.

Model	Support
TTP-243 series	
TTP-243 Plus series	Х
TTP-244ME series	
TTP-244ME Plus series	Х
TTP-244 series	Х
TTP-244CE series	Χ
TTP-245 series	X
TTP-245C series	X
TDP-245 series	Х
TTP-246M series	Х
TTP-248M series	
TTP-2410M series	Х
TDP-643 Plus	
TDP-643R Plus	Х
TTP-342 series	
TTP-342 Plus series	X
TTP-342M series	
TTP-342M Plus series	Х
TTP-343 series	Х
TTP-343C series	X
TTP-344M series	X
TTP-346M series	X
TTP-384M series	Х
TTP-644M series	Х
M23 series	X

Syntax

RUN "FILENAME.BAS"

Example

C:\SCOPY CON LPT1<ENTER>
RUN "DEMO.BAS"<ENTER>
<CTRL><Z><ENTER>
C:\>

Note: <ENTER> stands for PC keyboard "ENTER" key.

<CTRL><Z> means to hold PC keyboard "CTRL" key then press
the PC keyboard <Z> key

See Also DOWNLOAD, EOP

BASIC Commands and Functions **●** ABS()

Description

This function returns the absolute value of an integer, floating point or variable.

Syntax

ABS (-100) ABS (-99.99) ABS (VARIABLE)

Example

DOWNLOAD "TEST.BAS" **SIZE 4,4 GAP 0,0 DENSITY 8** SPEED 3 **DIRECTION 0** REFERENCE 0,0 SET CUTTER OFF SET PEEL OFF **CLS** A=ABS(-100) B=ABS(-50.98) C = -99.99TEXT 100,100,"3",0,1,1,STR\$(A) TEXT 100,150,"3",0,1,1,STR\$(B) TEXT 100,200,"3",0,1,1,STR\$(ABS(C)) PRINT 1 **EOP**

See Also

DOWNLOAD, EOP

• ASC()

Description

This function returns the ASCII code of the character.

Syntax

ASC ("A")

Example

DOWNLOAD "TEST.BAS"
SIZE 4,4
GAP 0,0
DENSITY 8
SPEED 3
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
CLS
CODE1=ASC("A")
TEXT 100,100,"3",0,1,1,STR\$(CODE1)
PRINT 1
EOP

See Also

DOWNLOAD, EOP, STR\$()

• CHR\$()

Description

This function returns the character with the specified ASCII code.

Syntax

CHR\$(n)

<u>Parameter</u> <u>Description</u>

n The ASCII code

Example

DOWNLOAD "TEST.BAS"
SIZE 4,4
GAP 0,0
DENSITY 8
SPEED 3
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
CLS
A=65
WORD\$=CHR\$(A)
TEXT 100,100,"3",0,1,1,WORD\$
PRINT 1
EOP

See Also

DOWNLOAD, EOP, STR\$(), ASC\$()

END

Description

This command states the end of program.

Syntax

END

Example

```
DOWNLOAD "DEMO.BAS"
SIZE 4,2
GAP 0,0
DENSITY 8
SPEED 6
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
CLS
TEXT 200,60,"4",0,1,1,"END COMMAND TEST"
X=300
Y=200
X1=500
Y1=400
GOSUB DR_LINE
PRINT 1
END
:DR LINE
FOR I=1 TO 100 STEP 10
```

FOR I=1 TO 100 STEP 10 BOX X+I,Y+I,X1-I,Y1-I,5

NEXT

RETURN

EOP

DEMO

See Also

DOWNLOAD, EOP

• EOF()

Description

This function is used to detect an opened download file to see whether it has reached the end of file.

Syntax

EOF (File Handle)

ParameterDescriptionFile handleEither 0 or 1.

Return valueDescriptionNone-zeroEnd of file0Not end of file

Example

DOWNLOAD "DATA",16,COMPUTER 2000

DOWNLOAD "DEMO.BAS"

SIZE 3,3

GAP 0.0,0

DENSITY 8

SPEED 4

DIRECTION 0

REFERENCE 0,0

SET CUTTER OFF

SET PEEL OFF

CLS

OPEN "DATA",0

SEEK 0.0

Y=110

TEXT 10,10,"3",0,1,1,"*****EOF TEST*****

:A

Temp\$=""

READ 0,ITEM\$,P

TEXT 10,Y,"2",0,1,1,ITEM\$+"\$"+STR\$(P)+"[EOF(0)="+STR\$(EOF(0))+"]"

BARCODE 10,Y+25,"39",40,1,0,2,4,"PRICE-"+STR\$(P)

Y=Y+100

IF EOF(0)=0 THEN GOTO A

PRINT 1

EOP

DEMO

See Also

DOWNLOAD, EOP, OPEN, READ, SEEK

OPEN

Description

This command opens a downloaded file and establishes the file handle. Up to two file handles are supported, thus only up to two files can be opened simultaneously. The file to be opened should be downloaded prior to using this command.

When open a file, firmware will search automatically if the file is existing in the on board flash memory or extend memory card. If the file is not existed then printer will create this file.

Syntax

OPEN "Filename", File handle

<u>Parameter</u> <u>Description</u>

Filename The file downloaded in the printer memory

File handle Either 0 or 1.

Example

If a file by the name of "DATA" is to be downloaded, The file format contains:

DOWNLOAD "DATA1",56,COMPUTER

2000

12

MOUSE

500

13

KEYBOARD

300

100

DOWNLOAD "DATA2",56,Computer

3000

32

Mouse

900

93

Keyboard

700

700

Save the above contents of data under the file name of "DATA". Follow the steps below to download data to the printer

C:\>COPY DATA/B LPT1

If a file by name of "DEMO.BAS is to be downloaded, the file format contains:

```
DOWNLOAD "DEMO.BAS"
SIZE 3.1
GAP 0.0
DENSITY 8
SPEED 4
DIRECTION 0
REFERENCE 0.0
SET CUTTER OFF
SET PEEL OFF
I=1
Y=100
GOSUB OpenData
:Start
CLS
TEXT 10,10,"3",0,1,1,"*****OPEN COMMAND TEST*****
ITEM$=""
READ 0.ITEM$,P,Q
TEXT 10,Y,"2",0,1,1,ITEM$+"$"+STR$(P)+"[EOF(0)="+STR$(EOF(0))+"]"
BARCODE 10,Y+25,"39",40,1,0,2,4,"PRICE*"+STR$(Q)+"="+STR$(P*Q)
Y=Y+100
PRINT 1
Y=100
IF EOF(0)=1 THEN GOSUB OpenData
IF EOF(0)=0 THEN GOTO Start
END
:OpenData
IF I=1 THEN OPEN "DATA1",0
IF I=2 THEN OPEN "DATA2",0
SEEK 0.0
IF I>2 THEN END
|=|+1|
RETURN
EOP
DEMO
Saving the above contents of data under the file name of "DEMO".
Follow the steps below to download data to the printer
<under MS-DOS mode>:
C:\>COPY DEMO/B LPT1
Execute DEMO.BAS in printer:
C:\>COPY CON LPT1
DEMO
<Ctrl><Z>
The above example instructs the printer to open the file "DATA1" and
```

"DATA2" with same file handle of 0, and read items from the file.

See Also DOWNLOAD, EOP, READ, EOF, LOF, SEEK, FREAD\$()	

WRITE

Description

This command writes data to a downloaded data file. Two files can be open simultaneously, by virtue of printer support for two file handles.

Syntax

WRITE file handle, variables

<u>Parameter</u> <u>Description</u>

file handle 0 or 1

variables string, integer or float point variable

See Also

READ, DOWNLOAD, EOP, OPEN, EOF, LOF, SEEK, FREAD\$()

READ

Description

This command reads data from downloaded data file.

Syntax

READ file handle, variables

Parameter file handle Description 0 or 1

variables string, integer or float point variable

Example

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```
DOWNLOAD "DATA1",20,COMPUTER 2000 12

DOWNLOAD "DATA2",16,Mouse 900
```

DOWNLOAD "DEMO.BAS"

SIZE 3,1
GAP 0,0
DENSITY 8
SPEED 4
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF

I=0 Y=100

OPEN "DATA1",0 OPEN "DATA2",1

SEEK 0,0 SEEK 1,0

:Start CLS

TEXT 10,10,"3",0,1,1,"*****READ COMMAND TEST*****"

TEXT 10,50,"3",0,1,1,"OPEN-READ DATA"+STR\$(I+1)

ITEM\$=""

READ I,ITEM\$,P,Q

TEXT 10,Y,"2",0,1,1,ITEM\$+"\$"+STR\$(P)

BARCODE 10,Y+25,"39",40,1,0,2,4,"PRICE*"+STR\$(Q)+"="+STR\$(P*Q)

Y=Y+100 PRINT 1 Y=100

```
IF I<=1 THEN
IF EOF(I)=1 THEN
I=I+1
GOTO Start
ELSE
GOTO Start
ENDIF
ELSE
END
ENDIF
EOP
DEMO
```

See Also

DOWNLOAD, EOP, OPEN, EOF, LOF, SEEK, FREAD\$()

SEEK

Description

This command shifts the specified file pointer to a certain position.

Syntax

SEEK file handle, offset

<u>Parameter</u> <u>Description</u> file handle 0 or 1

offset the offset characters which are shifted to a

new position

Example

DOWNLOAD "DATA",12,1234567890

```
DOWNLOAD "TEST.BAS"
SIZE 3,1
GAP 0,0
DENSITY 8
SPEED 3
DIRECTION 1
REFERENCE 0,0
CLS
OPEN "DATA",0
SEEK 0.4
READ 0, Num$
   TEXT 100,10,"3",0,1,1,"SEEK COMMAND TEST"
BAR 100,40,300,4
  TEXT 100,60,"3",0,1,1,"SHIFT 4 CHARACTERS"
   TEXT 100,110,"3",0,1,1,Num$
BAR 100,140,300,4
SEEK 0,0
READ 0, Num$
  TEXT 100,160,"3",0,1,1,"SHIFT 0 CHARACTERS"
  TEXT 100,210,"3",0,1,1,Num$
PRINT 1
EOP
```

See Also

TEST

DOWNLOAD, EOP, OPEN, READ, EOF, LOF, FREAD\$()

• LOF()

Description

This function returns the size of the specified file.

Syntax

LOF ("FILENAME")

<u>Parameter</u> <u>Description</u>

FILENAME The file downloaded in the printer memory.

Example

DOWNLOAD "DATA1", 10, 1234567890

DOWNLOAD "DATA2",15,ABCDEFGHIJKLMNO

```
DOWNLOAD "LofTest.BAS"
SIZE 3,3
GAP 0.08,0
DENSITY 8
SPEED 3
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
CLS
  OPEN "DATA1",0
  OPEN "DATA2",1
  TEXT 10,20,"4",0,1,1,"LOF() FUNCTION TEST"
  J=LOF("DATA1")
  K=LOF("DATA2")
  TEXT 10,140,"3",0,1,1,"DATA1 IS: "+STR$(J)+" Bytes"
  TEXT 10,200,"3",0,1,1,"DATA2 IS: "+STR$(K)+" Bytes"
  PRINT 1
EOP
LofTest
```

See Also

DOWNLOAD, EOP, OPEN, READ, EOF, SEEK, FREAD\$()

FREAD\$()

Description

This function reads a specified number of bytes of data from a file.

Syntax

FREAD\$ (file handle, byte)

ParameterDescriptionfile handleEither 0 or 1

byte Number of bytes to be read

Example

DOWNLOAD "DATA1", 10, 1234567890

DOWNLOAD "DATA2",15,ABCDEFGHIJKLMNO

```
DOWNLOAD "OPEN2.BAS"
SIZE 3,3
GAP 0.08,0
DENSITY 8
SPEED 3
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
CLS
 OPEN "DATA1",0
 OPEN "DATA2",1
 SEEK 0,0
 SEEK 1,0
 Y=FREAD$(0,6)
 Z$=FREAD$(1,6)
 TEXT 10,260,"3",0,1,1,"FREAD$(0,6) IS: "+Y$
 TEXT 10,320,"3",0,1,1,"FREAD$(1,6) IS: "+Z$
 PRINT 1
EOP
```

See Also

DOWNLOAD, EOP, OPEN, READ, EOF, LOF(), SEEK

FOR...NEXT LOOP

Description

Loop is used to execute one or more lines of program repetitively. A loop counter value specifics the number of executions. Nested loop are allowed (up to 39 nested loops) in this printer. Jumping out in the middle of the FOR...NEXT loop is prohibited.

Syntax

For variable = start TO end STEP increment statement; start < end **NEXT**

Parameter Description

The variable name is (up to 8 characters) variable

Integer or floating point numbers start Integer of floating point numbers end

Integer or floating point, positive or negative. increment

Example

DOWNLOAD "LOOP.BAS" **SIZE 3.3** GAP 0.08,0 **DENSITY 8** SPEED 4 **DIRECTION 1** CLS FOR I=1 TO 10 STEP 1 TEXT 100,10+30*(I-1),"3",0,1,1,STR\$(I) **NEXT** FOR I=1 TO 1000 STEP 100 TEXT 200,10+((I-1)/10)*3,"3",0,1,1,STR\$(I) **NEXT** FOR I=110 TO 10 STEP -10 TEXT 300,10+(ABS(I-110))*3,"3",0,1,1,STR\$(I) FOR I=1 TO 5 STEP 0.5

IF I-INT(I)=0 THEN Y=10+60*(I-1) ELSE Y=Y+30

TEXT 400,Y,"3",0,1,1,STR\$(I)

NEXT PRINT 1 **EOP LOOP**

See Also

DOWNLOAD, EOP

• IF...THEN...ELSE...ENDIF LOOP

Description

Use IF...THEN block to execute one or more statements conditionally. Either a single-line syntax or multiple-line "block" syntax can be used:

MODEL	Support				
WIODEL	single-line form	multiple-line form			
TTP-243 series	X				
TTP-243 Plus series	X	X			
TTP-244ME series	X				
TTP-244ME Plus series	X	X			
TTP-244 series	Χ	X			
TTP-244CE series	X	X			
TTP-245 series	X	X			
TTP-245C series	X	X			
TDP-245 series	X	X			
TTP-246M series	X	X			
TTP-248M series	X	X			
TTP-342 series	X				
TTP-342 Plus series	X	X			
TTP-342M series	X				
TTP-342M Plus series	X	X			
TTP-343 series	X	X			
TTP-343C series	X	X			
TTP-344M series	X	X			
TTP-346M series	X	X			
TDP-643 Plus series	X				
TDP-643R Plus series	X	X			
TTP-2410M series	X	X			
TTP-384M series	X	X			
TTP-644M series	X	X			
M23 series	X	X			

Syntax

IF condition THEN statement

Note the single-line form of IF ... THEN does not use an ENDIF

statement.

Or

IF condition THEN Statements

(TSPL2 printers only)

ENDIF

Or

```
IF condition THEN
                                (TSPL2 printers only)
    Statements
ELSE
    Statements
ENDIF
Or
IF condition 1 THEN
                            (TSPL2 printers only)
    Statement block 1
ELSEIF condition 2 THEN
    Statement block 2
ELSEIF condition n THEN
    Statement block n
ENDIF
```

The syntax of IF...THEN...ELSE requires that the command be typed eeping one single line in less than 255 characters.

<u>Parameter</u>	<u>Description</u>
condition	Available relational operator: <, >, =, <=, >=
statement	Only one statement is available in

Example

```
DOWNLOAD "DEMO.BAS"
SIZE 3,3
GAP 0.12,0
SPEED 4
DENSITY 8
DIRECTION 1
REFERENCE 0,0
OFFSET 0.00
SET CUTTER OFF
SET PEEL OFF
CLS
A=0
B=0
C=0
D=0
E=0
F=0
G=0
H=0
J=0
K=0
```

```
L=0
```

```
FOR I=1 TO 100
  IF I-INT(I/1)*1=0 THEN A=A+I
  IF I-INT(I/2)*2=1 THEN B=B+I ELSE C=C+I
  IF I-INT(I/3)*3=0 THEN
    D=D+I
  ENDIF
  IF I-INT(I/5)*5=0 THEN
    E=E+I
  ELSE
    F=F+I
  ENDIF
  IF I-INT(I/7)*7=0 THEN
    G=G+I
  ELSEIF I-INT(I/17)*17=0 THEN
    H=H+I
  ELSEIF I-INT(I/27)*27=0 THEN
    J=J+I
  ELSEIF I-INT(I/37)*37=0 THEN
    K=K+I
  ELSE
   L=L+I
  ENDIF
NEXT
TEXT 100,110,"3",0,1,1,"(1) 1+2+3+...+100="+STR$(A)
TEXT 100,160,"3",0,1,1,"(2) 1+3+5+...+99="+STR$(B)
TEXT 100,210,"3",0,1,1,"(3) 2+4+6+...+100="+STR$(C)
TEXT 100,260,"3",0,1,1,"(4) 3+6+9+...+99="+STR$(D)
TEXT 100,310,"3",0,1,1,"(5) 5+10+15+...+100="+STR$(E)
TEXT 100,360,"3",0,1,1,"
                         (1)-(5)="+STR$(F)
TEXT 100,410,"3",0,1,1,"(6) 7+14+21+...+98="+STR$(G)
TEXT 100,460,"3",0,1,1,"(7) 17+34+51+...+85="+STR$(H)
TEXT 100,510,"3",0,1,1,"(8) 27+54+...+81="+STR$(J)
TEXT 100,560,"3",0,1,1,"(9) 37+74="+STR$(K)
TEXT 100,610,"3",0,1,1,"
                        (1)-(6)-(7)-(8)-(9)="+STR$(L)
PRINT 1,1
EOP
DOWNLOAD "IFTHEN.BAS"
SIZE 4.4
GAP 0.0
DENSITY 8
SPEED 3
DIRECTION 0
REFERENCE 0.0
SET CUTTER OFF
SET PEEL OFF
CLS
```

A=50 B=5 C\$="" D\$="" :L1 IF A>100 THEN GOTO L1 ELSE A=A+10 C\$=STR\$(A)+" IS SMALLER THAN 100" TEXT 100,10,"4",0,1,1,C\$

PRINT 1
END

:L2 A=A+B D\$=STR\$(A)+" IS LARGER THAN 100" TEXT 100,100,"4",0,1,1,D\$ PRINT 1 GOTO L1 EOP

Note

If the result of the expression is nonzero, the statement following THEN will be executed. If the result of the expression is zero, and the statement following the ELSE present, it will be executed. Otherwise the next line of statement is executed.

If there are block of statements in IF...THEN ...ELSE, ENDIF must be used at the end of the IF...THEN ...ELSE statement. Limitations:

The total numbers of nested IF ...THEN ...ELSE statement in a program can not exceed than 40.

The total numbers of nested IF ...THEN ...ELSE, FOR...NEXT, GOSUB RETURN in a program can not exceed than 40 loops.

See Also

DOWNLOAD, EOP

GOSUB...RETURN

Description

Branch to a subroutine, executing statements until "RETURN" is reached.

```
Syntax
```

GOSUB LABEL statement END :LABEL statement RETURN

<u>Parameter</u>

Description

LABEL

Beginning of the subroutine. The maximum length of the label is 8 characters.

Example

DOWNLOAD "GOSUB1.BAS"

SIZE 3,3

GAP 0,0

DENSITY 8

SPEED 4

DIRECTION 0

CLS

TEXT 10,10,"3",0,1,1,"GOSUB & RETURN COMMAND TEST"

GOSUB DR BOX

PRINT 1

END

:DR BOX

FOR I=21 TO 81 STEP 10

BOX 80+I,80+I,80+300-I,80+300-I,5

NEXT

RETURN

EOP

GOSUB1

See Also

DOWNLOAD, EOP, END, GOTO

GOTO

Description

This command is used to branch to a specified label. The label cannot exceed 8 characters in length.

Syntax

GOTO LABEL

:LABEL

ParameterDescriptionNoneN/A

Example

```
DOWNLOAD "GOTO1.BAS"
SIZE 3.3
GAP 0.08,0
DENSITY 8
SPEED 4
DIRECTION 1
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
CLS
A=0
TOTAL=0
:START
 IF A<100 THEN
   GOTO SUM
 ELSE
   GOTO PRTOUT
 ENDIF
:SUM
 A=A+1
 TOTAL=TOTAL+A
 GOTO START
:PRTOUT
 B$="THE SUMMATION OF 1..100 IS "+STR$(TOTAL)
 TEXT 10,100,"3",0,1,1,B$
 PRINT 1
END
EOP
```

See Also

DOWNLOAD, EOP, END, GOSUB...RETURN

• INP\$()

Description

One byte is received from a serial port through this function.

Syntax

INP\$(n)

ParameterDescriptionn1: com1 port in printer

Example

```
DOWNLOAD "DEMO.BAS"
SIZE 3,3
GAP 0,0
DENSITY 8
SPEED 3
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
CLS
T$=""
FOR I=1 TO 5
 T=T+INP$(1)
NEXT
TEXT 100,100,"4",0,1,1,"INP$(1)="+T$
PRINT 1
EOP
DEMO
12345
```

See Also

DOWNLOAD, EOP, END, INPUT, GOSUB...RETURN, GOTO

INPUT

Description

This command receives data through serial port. This command is used with portable keyboard KP-200.

Syntax

INPUT ["Prompt string", number of digits], variables The comma also can be replaced by semicolon, such as: INPUT ["Prompt string"; number of digits]; variables

<u>Parameter</u>	<u>Description</u>
Prompt string	The prompt string is shown on keyboard LCD
	screen. The maximum length of prompt string is 20 characters.
Number of digits	Maximum number of characters is 255.
Variables	The variable to receive input data.

Example

```
DOWNLOAD "INPUT1.BAS"
SIZE 3,3
GAP 0.08,0
DENSITY 8
SPEED 4
DIRECTION 0
REFERENCE 0.0
SET CUTTER OFF
SET PEEL OFF
:START
 CLS
 A$=""
 TEXT 20,50,"3",0,1,1,"INPUT and KP-200 Test"
 INPUT "CODE 39:",C39$
 INPUT "EAN 13:",12,E13$
 BARCODE 20,100,"39",48,1,0,2,5,C39$
 BARCODE 20,200,"EAN13",48,1,0,4,4,E13$
 PRINT 1
GOTO START
EOP
```

See Also

DOWNLOAD, EOP, END, GOTO

REM

Description

Comment. Prefix is "REM", which will be ignored by the printer.

Syntax

REM

Example

```
REM This is a demonstration program*
DOWNLOAD "REMARK.BAS"
SIZE 3,3
GAP 0.08,0
DENSITY 8
SPEED 4
DIRECTION 1
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
CLS
TEXT 50,50,"3",0,1,1,"REMARK DEMO PROGRAM"
REM TEXT 50,100,"3",0,1,1,"REMARK DEMO PROGRAM"
PRINT 1,1
EOP
```

See Also

DOWNLOAD, EOP, END

OUT

Description

This command sends data through the printer serial port.

Syntax

OUT "prompt", variable

<u>Parameter</u> **Description**

Prompt which is shown on LCD screen. prompt

Variable The output message

Example

DOWNLOAD "DEMO.BAS"

SIZE 3,3

GAP 0.08,0

DENSITY 8

SPEED 4

DIRECTION 0

REFERENCE 0,0

SET CUTTER OFF

SET PEEL OFF

CLS

PRICE\$="123456"

OUT "PRICE:",PRICE\$

EOP

See Also

DOWNLOAD, EOP, END, ~#...~&

GETKEY()

Description

This command is used to get the status of the PAUSE and FEED keys. This command waits until either key is pressed, whereupon 0 is returned if PAUSE key is pressed and 1 is returned if FEED key is pressed.

Model	PAUSE	FEED
TTP-2410M/TTP-346M Plus/TTP-248M/ TTP-246M Plus/TTP-344M Plus/TTP-384M /TTP-644M TTP246M/344M/ TTP-244/TTP-244 Plus TTP-243/TTP-342 TTP-243 PLUS/TTP-342 PLUS TTP-342M/TTP-244ME TTP-342M PLUS/TTP-244ME PLUS	0	1
TDP-643 PLUS TDP-643R PLUS TTP-245/343/TDP-245 TTP-245C/343C/244CE	X	1

Syntax

GETKEY()

Example

DOWNLOAD "DEMO4.BAS"

SIZE 4,4

GAP 0,0

DENSITY 8

SPEED 3

DIRECTION 0

REFERENCE 0,0

SET CUTTER OFF

SET PEEL OFF

CLS

:START

A=GETKEY()

IF A=0 THEN GOTO PAUSEB

IF A=1 THEN GOTO FEEDB

:PAUSEB

CLS

TEXT 50,10,"4",0,1,1,"PAUSE key is pressed !"

PRINT 1

GOTO START :FEEDB CLS TEXT 50,10,"4",0,1,1,"FEED key is pressed !" PRINT 1 EOP

See Also

DOWNLOAD, EOP, END, GOTO

• INT()

Description

This function truncates a floating point number.

Syntax

INT (n)

<u>Parameter</u> <u>Description</u>

n positive or negative integer, floating

point number or mathematical expression.

Example

```
DOWNLOAD "DEMO.BAS"
SIZE 4,2
GAP 0,0
DENSITY 8
SPEED 3
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
CLS
REM **** To round up or down****
INPUT "Number:", Num
N=INT(Num+0.5)
IF N>Num THEN
 TEXT 50,100,"3",0,1,1,"To round up= "+STR$(N)
ELSE
 TEXT 50,100,"3",0,1,1,"To round down= "+STR$(N)
ENDIF
PRINT 1
EOP
```

See Also

DOWNLOAD, EOP, END, ABS(), ASC(), STR\$()

• LEFT\$()

Description

This function returns the specified number of characters down from the initial character of a string.

Syntax

LEFT\$ (X\$, n)

<u>Parameter</u>	<u>Description</u>
X\$	The string to be processed
n	The number of characters to be returned

Example

```
DOWNLOAD "STR1.BAS"
SIZE 3.00,3.00
GAP 0.08,0.00
SPEED 4.0
DENSITY 8
SET CUTTER OFF
DIRECTION 0
REFERENCE 0,0
CLS
A$="BARCODE PRINTER DEMO PRINTING"
C$=LEFT$(A$,10)
TEXT 10,10,"3",0,1,1,4$
TEXT 10,100,"3",0,1,1,"10 LEFT 10 CHARS: "+C$
PRINT 1
EOP
```

See Also

DOWNLOAD, EOP, END, RIGHT\$(), MID\$(), LEN(), STR\$()

• LEN()

Description

This function returns the length of a string.

Syntax

LEN (string)

<u>Parameter</u> <u>Description</u>

string The string whose length is to be measured. .

Example

DOWNLOAD "DEMO.BAS"

SIZE 3.00,3.00

GAP 0.08,0.00

SPEED 4.0

DENSITY 8

SET CUTTER OFF

DIRECTION 0

REFERENCE 0,0

CLS

A\$="TAIWAN SEMICONDUCTOR CO., LTD"

B=LEN(A\$)

TEXT 10,10,"3",0,1,1,A\$

TEXT 10,50,"3",0,1,1,"STRING LENGTH="+STR\$(B)

PRINT 1

See Also

EOP

DOWNLOAD, EOP, END, LEFT\$(), LEN(), RIGHT\$(), MID\$(), STR\$(), VAL()

• MID\$()

Description

This function retrieves the specified number of characters down from the *m*th character of a string.

Syntax

MID\$(string, m, n)

<u>Parameter</u>	<u>Description</u>
string	The string to be processed.
m	The beginning of <i>m</i> th characters in the string.
	1 <= m <= string length
n	The number of characters to return.

Example

```
DOWNLOAD "DEMO.BAS"

SIZE 3.00,3.00

GAP 0.08,0.00

SPEED 4.0

DENSITY 8

SET CUTTER OFF

DIRECTION 0

REFERENCE 0,0

CLS

A$="TAIWAN SEMICONDUCTOR CO., LTD"

E$=MID$(A$,11,10)

TEXT 10,10,"3",0,1,1,A$

TEXT 10,200,"3",0,1,1,"10 MIDDLE CHARS: "+E$

PRINT 1

EOP
```

See Also

DOWNLOAD, EOP, END, LEFT\$(), LEN(), RIGHT\$(), STR\$(), VAL()

RIGHT\$()

Description

This function returns a specified number of characters up from the end of a string.

Syntax

RIGHT\$ (X\$, n)

<u>Parameter</u>	<u>Description</u>
X\$	The string to be processed
n	The number of characters to be returned from the
	right side (end) of the string

Example

DOWNLOAD "DEMO.BAS" SIZE 3.00,3.00 GAP 0.08,0.00 SPEED 4.0 DENSITY 8 SET CUTTER OFF DIRECTION 0 REFERENCE 0,0

CLS A\$="TAIWAN SEMICONDUCTOR CO., LTD" D\$=RIGHT\$(A\$,10) TEXT 10,10,"3",0,1,1,A\$ TEXT 10,150,"3",0,1,1,"10 RIGHT CHARS: "+D\$ PRINT 1 EOP

See Also

DOWNLOAD, EOP, END, LEFT\$(), LEN(), MID\$(), STR\$(), VAL()

• STR\$()

Description

This function converts a specified value or expression into corresponding string of characters.

Syntax

STR\$ (n)

<u>Parameter</u> <u>Description</u>

n An integer, floating point number or mathematical

expression

Example

DOWNLOAD "DEMO.BAS"

SIZE 3.00,3.00

GAP 0,0.00

SPEED 4.0

DENSITY 8

SET CUTTER OFF

DIRECTION 0

REFERENCE 0,0

CLS

A\$="TAIWAN SEMICONDUCTOR CO., LTD"

F=100

G=500

H\$=STR\$(F+G)

TEXT 10,10,"3",0,1,1,A\$

TEXT 10,60,"3",0,1,1,"F="+STR\$(F)

TEXT 10,110,"3",0,1,1,"G="+STR\$(G)

TEXT 10,160,"3",0,1,1,"F+G="+H\$

PRINT 1

EOP

DEMO

See Also

DOWNLOAD, EOP, END, LEFT\$(), LEN(), RIGHT\$(), MID\$(), VAL()

VAL()

Description

This function converts numeric characters into corresponding integer or floating point number.

Syntax

VAL ("numeric character")

Parameter Description numeric character "0~9", "."

Example

```
DOWNLOAD "DEMO.BAS"
SIZE 3.00,3.00
GAP 0.00,0.00
SPEED 4.0
DENSITY 8
SET CUTTER OFF
DIRECTION 0
REFERENCE 0,0
CLS
A$="TAIWAN SEMICONDUCTOR CO., LTD"
F$="100"
G$="500"
H=VAL(F$)+VAL(G$)
I$=STR$(H)
TEXT 10,10,"3",0,1,1,A$
TEXT 10,60,"3",0,1,1,"F="+F$
TEXT 10,110,"3",0,1,1,"G="+G$
TEXT 10,160,"3",0,1,1,"F+G="+I$
PRINT 1
EOP
DEMO
```

See Also

DOWNLOAD, EOP, END, LEFT\$(), LEN(), RIGHT\$(), MID\$(), STR\$()

BEEP

Description

This command issues a beep sound on portable keyboard. Printer sends the string 0x07 to KP-200 portable keyboard.

Syntax

BEEP

Parameter Description N/A

Example

DOWNLOAD "DEMO.BAS"
SIZE 4,4
GAP 0,0
DENSITY 8
SPEED 6
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
CLS
BEEP
INPUT "Text1 =",TEXT1\$
TEXT 100,100,"3",0,1,1,TEXT1\$
PRINT 1
EOP

Device Reconfiguration Commands◆ SET COUNTER

Description

Counters can be a real counter or a variable.

This setting sets the counter number in program and their increments. There are three different types of counters: digit $(0\sim9\sim0)$, lower case letter $(a\sim2\sim4)$ or upper case letter $(A\sim2\sim4)$.

Syntax

SET COUNTER @n step @n = "Expression"

<u>Parameter</u>	<u>Description</u>
@n	n: counter number. There are 51 counters available (@0~@50) in the printer.
step	The increment of the counter, can be positive or negative.
	-99999999<= step <=999999999999999999999999999999999999
Expression	Initial string. String length is 101 bytes

Example

SIZE 3,3
GAP 0,0
DENSITY 8
SPEED 6
DIRECTION 0
REFERENCE 0,0
SET COUNTER @1 1
@1="00001"
SET COUNTER @2 5
@2="AB000001"
CLS
TEXT 50,50,"3",0,1,1,@1
BARCODE 50,100,"39",48,1,0,2,4,@2
PRINT 2,1

See Also

PRINT, TEXT, BARCODE

SET CUTTER

Description

This setting activates or deactivates the cutter and defines how many printed labels is to be cut at one time.

This setting will be saved in printer memory after turning off the power.

Syntax

SET CUTTER OFF/BATCH/pieces

Description Parameter OFF Disable cutter function. BATCH Set printer to cut label at the end of printing job. Pieces Set number of printing labels per cut. 0<= pieces <=65535

Example

REM ***SET CUTTER FUNCTION OFF EXAMPLE PROGRAM*** **SIZE 3.3 GAP 0.0 DENSITY 8** SPEED 6 DIRECTION 0 REFERENCE 0,0 SET CUTTER OFF SET PEEL OFF **CLS** TEXT 50,50,"3",0,1,1,"SET CUTTER OFF" PRINT 3 REM ***This program cuts once at the batch*** SET CUTTER BATCH CLS TEXT 50,50,"3",0,1,1,"SET CUTTER BATCH" PRINT 3,2 REM ***This program cuts every label*** **SET CUTTER 1** CLS TEXT 50,50,"3",0,1,1,"SET CUTTER 1" **PRINT 3,2**

SET CUTTER 2 CLS

TEXT 50,50,"3",0,1,1,"SET CUTTER 2" PRINT 3.2

REM ***This program cuts 2 label***

See Also

OFFSET, PRINT, SET PARTIAL CUTTER

SET PARTIAL_CUTTER

Description

This setting activates or deactivates the cutter and defines how many printed labels is to be cut at one time.

This setting will be saved in printer memory after turning off the power.

This function prevents label back feeding after a cut.

Model	Support
TTP-243 series	
TTP-243 Plus series	
TTP-244ME series	
TTP-244ME Plus series	
TTP-244 series	
TTP-244CE series	
TTP-245 series	X
TTP-245C series	X
TDP-245 series	X
TTP-246M series	
TTP-248M series	
TTP-2410M series	
TDP-643 Plus	
TDP-643R Plus	X
TTP-342 series	
TTP-342 Plus series	
TTP-342M series	
TTP-342M Plus series	
TTP-343 series	X
TTP-343C series	X
TTP-344M series	
TTP-346M series	
TTP-384M series	
TTP-644M series	
M23 series	

Syntax

SET PARTIAL_CUTTER OFF/BATCH/pieces

<u>Parameter</u> <u>Description</u>

OFF Disable cutter function.

BATCH Set printer to cut label at the end of printing job.

Pieces Set number of printing labels per cut.

0<= pieces <=65535

Example

REM **SET PARTIAL CUTTER FUNCTION OFF EXAMPLE PROGRAM**

```
SIZE 3,1
GAP 0,0
DENSITY 8
SPEED 6
DIRECTION 0
REFERENCE 0,0
SET PARTIAL CUTTER OFF
CLS
TEXT 50,50,"3",0,1,1,"SET PARTIAL CUTTER OFF"
PRINT 3
REM ***This program cuts once at the batch***
SET PARTIAL CUTTER BATCH
CLS
TEXT 50,50,"3",0,1,1,"SET PARTIAL CUTTER BATCH"
PRINT 3,2
REM ***This program cuts every label***
SET PARTIAL CUTTER 1
CLS
TEXT 50,50,"3",0,1,1,"SET PARTIAL CUTTER 1"
PRINT 3,2
REM ***This program cuts 2 label***
SET PARTIAL CUTTER 2
CLS
TEXT 50,50,"3",0,1,1,"SET PARTIAL_CUTTER 2"
PRINT 3,2
```

See Also

OFFSET, PRINT, SET CUTTER

SET BACK

Description

This setting is used after SET CUTTER function.

This function prevents label backfeeding after a cut. Backfeeding after a cut backfeed when cut off

Model	Support
TTP-243 series	
TTP-243 Plus series	Х
TTP-244ME series	
TTP-244ME Plus series	X
TTP-244 series	X
TTP-244CE series	
TTP-245 series	X
TTP-245C series	X
TDP-245 series	X
TTP-246M series	Х
TTP-248M series	
TTP-2410M series	Х
TDP-643 Plus	
TDP-643R Plus	X
TTP-342 series	
TTP-342 Plus series	X
TTP-342M series	
TTP-342M Plus series	X
TTP-343 series	X
TTP-343C series	X
TTP-344M series	Х
TTP-346M series	Х
TTP-384M series	Х
TTP-644M series	Х
M23 series	

Syntax

SET BACK OFF/ON

<u>Parameter</u> **Description**

OFF Disable back function. ON Enable back function.

Example

REM **SET BACK FUNCTION OFF EXAMPLE PROGRAM**

SIZE 3,1 GAP 0,0

DENSITY 8
SPEED 6
DIRECTION 1
REFERENCE 0,0
SET CUTTER 1
SET BACK OFF
CLS
TEXT 50,50,"3",0,1,1,"SET BACK OFF"
PRINT 3

CLS SET CUTTER 1 SET BACK ON TEXT 50,50,"3",0,1,1,"SET BACK ON" PRINT 3

See Also

OFFSET, PRINT, SET CUTTER

• SET KEY1, SET KEY2, SET KEY3

Description

This setting is used to enable/disable the KEY1/KEY2/KEY3 function. The default function of KEY1 is "MENU" key, KEY2 is "PAUSE" key and KEY3 is "FEED" key. Before setting KEY1/KEY2/KEY3 function otherwise, please disable KEY1/KEY2/KEY3 first. The setting will remain resident in the printer even when the printer is power off.

Model	KEY0	KEY1	KEY2	KEY3	KEY4	KEY5	KEY6
TTP-243 series		PAUSE	FEED				
TTP-243 Plus series		PAUSE	FEED				
TTP-244ME series		PAUSE	FEED				
TTP-244ME Plus series		PAUSE	FEED				
TTP-244 series		PAUSE	FEED				
TTP-244C series		FEED					
TTP-245 series		FEED					
TTP-245C series		FEED					
TDP-245 series		FEED					
TTP-246M series*		MENU	PAUSE	FEED	(UP)	(DOWN)	(SELECT)
TTP-248M series		MENU	PAUSE	FEED			
TTP-2410M series		MENU	PAUSE	FEED	UP	DOWN	SELECT
TDP-643 Plus		PAUSE					
TDP-643R Plus		PAUSE					
TTP-342 series		PAUSE	FEED				
TTP-342 Plus series		PAUSE	FEED				
TTP-342M series		PAUSE	FEED				
TTP-342M Plus series		PAUSE	FEED				
TTP-343 series		FEED					
TTP-343C series		FEED					
TTP-344M series		MENU	PAUSE	FEED	(UP)	(DOWN)	(SELECT)
TTP-346M series*		MENU	PAUSE	FEED	UP	DOWN	SELECT
TTP-384M series		MENU	PAUSE	FEED	UP	DOWN	SELECT
TTP-644M series		MENU	PAUSE	FEED	UP	DOWN	SELECT
M23 series	FEED	LEFT	MID	RIGHT			

^{*}For TTP-246M Plus and TTP-344M Plus, there are 6 buttons on the control panel.

Syntax

SET KEY1 ON/OFF SET KEY2 ON/OFF SET KEY3 ON/OFF

Description Parameter

Enable KEY1 as MENU function ON

Enable KEY2 as PAUSE function

OFF Disable KEY3 as FEED function
Disable KEY1 as MENU function
Disable KEY2 as PAUSE function
Disable KEY3 as FEED function

Note: The setting will remain in the printer even if the printer is power off.

Example DOWNLOAD "DEMO.BAS" **SIZE 3.1 GAP 0.0 DENSITY 8** SPEED 3 **DIRECTION 0** REFERENCE 0,0 SET CUTTER OFF SET KEY1 OFF SET KEY2 OFF SET KEY3 OFF KEY1=0 KEY2=0 KEY3=0 **CLS** :START IF KEY1=1 THEN **CLS** TEXT 100,10,"3",0,1,1,"KEY1 (MENU key) is pressed!!" **PRINT 1,1 ELSEIF KEY2=1 THEN** TEXT 100,10,"3",0,1,1,"KEY2 (PAUSE key) is pressed!!" **PRINT 1,1 ELSEIF KEY3=1 THEN CLS** TEXT 100,10,"3",0,1,1,"KEY3 (FEED key) is pressed!!" TEXT 100,60,"3",0,1,1,"End of test" PRINT 1,1 SET KEY1 ON SET KEY2 ON SET KEY3 ON **END ENDIF GOTO START EOP DEMO**

See Also

OFFEST, PRINT

• SET LED1, SET LED2, SET LED3

Description

This setting is used to control LED on/off function.

The default function of LED1, LED2 and LED3 id as listed below:

Model	LED1	LED2	LED3	LED2 & LED3
TTP-243 series	POWER	ONLINE	ERROR	
TTP-243 Plus series	POWER	ONLINE	ERROR	
TTP-244ME series	POWER	ONLINE	ERROR	
TTP-244ME Plus series	POWER	ONLINE	ERROR	
TTP-244 series	POWER	ONLINE	ERROR	
TTP-244CE series	GREEN	GREEN	RED	ORANGE
TTP-245 series	GREEN	GREEN	RED	ORANGE
TTP-245C series	GREEN	GREEN	RED	ORANGE
TDP-245 series	GREEN	GREEN	RED	ORANGE
TTP-246M series	POWER	ONLINE	ERROR	
TTP-248M series	POWER	ONLINE	ERROR	
TTP-2410M series	POWER	ONLINE	ERROR	
TDP-643 Plus	ONLINE	ERROR	ERROR	
TDP-643R Plus	ONLINE	ERROR	ERROR	
TTP-342 series	POWER	ONLINE	ERROR	
TTP-342 Plus series	POWER	ONLINE	ERROR	
TTP-342M series	POWER	ONLINE	ERROR	
TTP-342M Plus series	POWER	ONLINE	ERROR	
TTP-343 series	GREEN	GREEN	RED	ORANGE
TTP-343C series	GREEN	GREEN	RED	ORANGE
TTP-344M series	POWER	ONLINE	ERROR	
TTP-346M series	POWER	ONLINE	ERROR	
TTP-384M series	POWER	ONLINE	ERROR	
TTP-644M series	POWER	ONLINE	ERROR	
M23 series				

Note: For TTP-245/343/TDP-245, the LED1=LED2.

LED no.Default FunctionLDE1Power on/off

LED2 Printer on-line/off-line

LED3 Erroe/normal

Syntax

SET LED1 ON/OFF SET LED2 ON/OFF SET LED3 ON/OFF

Example

```
DOWNLOAD "DEMO4.BAS"
SET LED1 OFF
SET LED2 OFF
SET LED3 OFF
FOR I=1 TO 100
LED1=0
LED2=0
LED3=0
 IF I-INT(I/2)*2=0 THEN
   LED1=1
 ELSEIF I-INT(I/3)*3=0 THEN
   LED2=1
 ELSE
   LED3=1
 ENDIF
NEXT
LED1=1
LED2=1
LED3=0
SET LED1 ON
SET LED2 ON
SET LED3 ON
EOP
DEMO4
```

SET PEEL

Description

This setting is used to enable/disable the self-peeling function.

The default setting for this function is off. When this function is set on, the printer stops after each label printing, and does not print the next label until the peeled label is taken away.

This setting will be saved in printer memory when turning off the power.

Syntax

SET PEEL ON/OFF

<u>Parameter</u>	<u>Description</u>
ON	Enable the self-peeling function
OFF	Disable the self-peeing function

Example

```
REM ***SELF-PEELING FUNCTION ON***
SIZE 4,4
GAP 0,0
DENSITY 8
SPEED 6
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL ON
CLS
TEXT 50,100,"3",0,1,1,"SELF-PEELING FUNCTION TEST"
PRINT 5
```

See Also

OFFEST, PRINT

• SET TEAR & SET STRIPER

Description

This command is used to enable/disable feeding of labels to gap/black mark position for tearing off.

This setting will be saved in printer memory when turning off the power.

MODEL	SUPPORT	
IVIODEL	SET TEAR	SET STRIPER
TTP-243 series		Х
TTP-243 Plus series	X	Х
TTP-244ME series		X
TTP-244ME Plus series	X	X
TTP-244 series	X	X
TTP-244CE series	X	
TTP-245 series	X	
TTP-245C series	X	
TDP-245 series	X	
TTP-246M series	Χ	
TTP-248M series	X	
TTP-2410M series	X	X
TDP-643 Plus series		X
TDP-643R Plus series	X	X
TTP-342 series		X
TTP-342 Plus series	X	X
TTP-342M series		X
TTP-342M Plus series	X	X
TTP-343 series	X	
TTP-343C series	X	
TTP-344M series	X	
TTP-346M series	X	
TTP-384M series	X	
TTP-644M series	X	
M23	X	

Syntax

SET TEAR ON/OFF (TSPL2 language printers only)
SET STRIPER ON/OFF (TSPL language printers only)

<u>Parameter</u>	<u>Description</u>
ON	The label gap will stop at the tear off position after print.
OFF	The label gap will NOT stop at the tear off position after print. The beginning of label will be aligned to print head.

Example

REM ***TEAR FUNCTION ON***
SIZE 3,3
GAP 0.08,0
DENSITY 8
SPEED 4
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
SET TEAR ON
CLS
TEXT 50,100,"3",0,1,1,"TEAR FUNCTION TEST"
PRINT 1

See Also

SET PEEL, SET CUTTER

SET GAP

Description

This setting sets the gap sensor emission sensitivity. The printer initiates automatic gap sensor calibration the PAUSE key is held down while powering up. This function may cease to work if the thickness of the backing paper and that of label with backing paper are not of appreciable difference to the sensor, or when there are pre-printed marks or patterns on the label. In such case, users must calibrate the gap sensor manually by this command through trial-and-error method to attain the proper setting. This setting will be saved in printer memory when turning off the power.

Syntax

SET GAP n/AUTO/OFF/0,/REVERSE/OBVERSE

	<u>Parameter</u>	<u>Description</u>
	n	Gap sensor light emission strength. Available
		range is listed as below. 0 is the lowest sensitivity
	AUTO	The printer will feed 2 or 3 labels to calibrate the
gap.		
		If the label is continuous, the printer will feed label to
		limit 10~20 inches to confirm if the label is
		continuous.
	OFF	Disable the SET GAP AUTO function.
	0,	Automatically calibrate the gap size.
	REVERSE	This function is using when the Black Mark is the
		separation in front of the label and which can't be
		detected by Black Mark sensor. The parts of the
		media where can be passed through by GAP sensor
		are defined to be the printable area, otherwise there
		will be defined to the GAP of the media.
	OBVERSE	Disable the "SET GAP REVERSE" function.

Printer model	Range	SET GAP REVERSE SET GAP OBVERSE SET GAP AUTO
TTP-243 series	0~15	Х
TTP-243 Plus series	0~255	X
TTP-244 series	0~255	Х
TTP-244CE series	0~31 (Gap) 0~3 (Bline)	x
TTP-244ME series	0~15	Х
TTP-244ME Plus series	0~255	Х
TTP-245/343 series	0~63 (Gap) 0~63 (Bline)	х
TTP-245 Plus/343 Plus series	0~15 (Gap)	Х

0~15 (Bline)	
0~31 (Gap)	Х
	Λ
` ' '	X
	Α
` ' '	X
	Х
` ' '	X
	Α
	X
0~3 (BLINE)	X
0~255	X
0~7(GAP)	x
0~3 (BLINE)	X
0~15	X
0~255	X
0~15	X
0~15	X
0~255	Х
0~7(GAP)	Х
0~3 (BLINE)	^
0~7(GAP)	X
0~3 (BLINE)	^
0~7(GAP)	Х
0~3 (BLINE)	^
0~7(GAP)	Х
0~3 (BLINE)	^
0~255	X
	0~31 (Gap) 0~3 (Bline) 0~63 (Gap) 0~63 (Bline) 0~63 (Bline) 0~15 (Gap) 0~15 (Bline) 0~63 0~31 (Gap) 0~31 (Bline) 0~7(GAP) 0~3 (BLINE) 0~255 0~7(GAP) 0~3 (BLINE) 0~255 0~15 0~15 0~255 0~15 0~15 0~255 0~7(GAP) 0~3 (BLINE)

Note: When in "SET HEAD OFF" mode, the function "SET GAP AUTO" doesn't work even the printer head is opened and closed, but it can work when power on the printer.

Example

The example below is operated in DOS environment via the parallel port connection to setup the label size, gap distance and sensor sensitivity.

```
C:\>COPY CON LPT1<ENTER>
SIZE 4,2.5<ENTER>
GAP 0.12,0<ENTER>
SET GAP 1<ENTER>
<CTRL><Z><ENTER>
C:\>
```

Note: <ENTER> stands for keyboard "ENTER" key. In the above example, please press "ENTER" key instead of typing <ENTER> in the above example.

<CTRL> stands for keyboard "Ctrl" key.

Troubleshooting:

Press the FEED key to test. Does printer stop at the same position on each label without the error light blinking? If not, adjust the setting to a larger number

When adjusting this setting, begin from 0 and then on to higher values incrementally.

See Also

SIZE, GAP, BLINE

SET HEAD

Description

This setting is used to enable/disable head open sensor. If the head open sensor is closed, an open printer head will not return an error message. This setting will be saved in printer memory.

This command is only available for BPL2 printers.

Model	Support
TTP-243 series	
TTP-243 Plus series	
TTP-244ME series	X
TTP-244ME Plus series	X
TTP-244 series	
TTP-244CE series	X
TTP-245 series	X
TTP-245C series	X
TDP-245 series	X
TTP-246M series	X
TTP-248M series	X
TTP-2410M series	X
TDP-643 Plus	
TDP-643R Plus	
TTP-342 series	
TTP-342 Plus series	
TTP-342M series	X
TTP-342M Plus series	X
TTP-343 series	X
TTP-343C series	X
TTP-344M series	X
TTP-346M series	X
TTP-384M series	X
TTP-644M series	X
M23 series	

Syntax

SET HEAD ON /OFF

<u>Parameter</u> <u>Description</u>

ON Turn on the "HEAD OPEN" sensor OFF Turn off the "HEAD OPEN" sensor

Example

SET HEAD ON SET HEAD OFF

SET RIBBON

Description

This setting is used to enable/disable ribbon sensor detection. (Thermal Transfer Printing/Thermal Direct Printing)

Printer will detect the presence of a ribbon to determine using either direct thermal or thermal transfer printing upon printer startup.

This setting will not be saved in printer memory.

Syntax

SET RIBBON ON /OFF

<u>Parameter</u>	Description	
ON	Thermal transfer printing	
OFF	Thermal direct printing	

Example

```
REM ***Direct printing****
SIZE 4,4
GAP 0,0
DENSITY 8
SPEED 6
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
SET RIBBON OFF
CLS
BARCODE 100,100,"39",48,1,0,2,5,"CODE 39"
PRINT 1
```

SET COM1

Description

This setting defines communication parameters for printer serial port.

Syntax

SET COM1 baud, parity, data, stop

<u>Parameter</u> baud	Description Baud rate, available baud rates are as listed: 24: 2400 bps 48: 4800 bps 96: 9600 bps 19: 19200 bps 38: 38400 bps 57: 57600 bps 115: 115200 bps
parity	Parity check N: No parity check E: Even parity check O: Odd parity check
data	Data bit 8: 8 bits data 7: 7 bits data
stop	Stop bit 1: 1 stop bit 2: 2 stop bits

Example

The parallel port is used to setup the printer serial port in this example via MS-DOS mode.

C:\>COPY CON LPT1<ENTER>
SET COM1 19,N,8,1<ENTER>
<CTRL><Z><ENTER>
C:\>

Note: <ENTER> stands for PC keyboard "ENTER" key.

<CTRL><Z> means to hold PC keyboard "CTRL" key then press
the PC keyboard <Z> key.

SET PRINTKEY

Description

This command will print one label and feed label gap to tear bar position for tearing away. Press FEED button to print the next label or batch of labels. If label content includes serial text or barcode, it will change the serial number accordingly. This setting will be saved in printer memory.

This command is only available for TSPL2 printers.

Model	Support
TTP-243 series	
TTP-243 Plus series	Х
TTP-244ME series	
TTP-244ME Plus series	X
TTP-244 series	Х
TTP-244CE series	X
TTP-245 series	X
TTP-245C series	X
TDP-245 series	X
TTP-246M series	X
TTP-248M series	
TTP-2410M series	X
TDP-643 Plus	
TDP-643R Plus	X
TTP-342 series	
TTP-342 Plus series	X
TTP-342M series	
TTP-342M Plus series	X
TTP-343 series	X
TTP-343C series	X
TTP-344M series	X
TTP-346M series	X
TTP-384M series	X
TTP-644M series	Х
M23 series	

Syntax

SET PRINTEKY OFF/ON/AUTO/<num>

<u>Parameter</u>	<u>Description</u>
OFF	Disable this function
ON	Enable this function
AUTO	Enable this function
<num></num>	Numbers of labels will be printed if FEED button is

pressed.

Example

Execute:
SIZE 4,2.5
GAP 0.12,0
SET PRINTKEY ON
SET COUNTER @0 1
@0="0001"
CLS
TEXT 10,10,"5",0,1,1,@0
PRINT 1

Execute:

Syntax	Receive "PRINT m"	Print Out
SET PRINTKEY ON or	1.) PRINT 2	Label 1~2
SET PRINTKEY AUTO	2.) Press FEED key	Label 3~4

Syntax	Receive "PRINT m,n"	Print Out
SET PRINTKEY ON or	1.) PRINT 1,2	Label 1, Label 1
SET PRINTKEY AUTO	2.) Press FEED key	Label 2, Label 2

Syntax	Receive "PRINT -1,n"	Print Out
SET PRINTKEY ON or	1.) PRINT -1,2	Label 1, Label 1
SET PRINTKEY AUTO	2.) Press FEED key	Label 1, Label 1

Syntax	Receive "PRINT m"	Print Out
SET PRINTKEY 5	1.) PRINT 2	Label 1~2
SEIPKINIKETS	2.) Press FEED key	Label 3~7
Syntax	Receive "PRINT m,n"	Print Out
SET PRINTKEY 5	1.) PRINT 1,2	Label 1, Label 1
SEI FRININET S	2.) Press FEED key	Label 2~6

Syntax	Receive "PRINT –1,n"	Print Out
SET PRINTKEY 5	1.) PRINT -1,2	Label 1, Label 1
	2.) Press FEED key	Label 1, Label 1

SET REPRINT

Description

This command will disable/enable a reprinting attempt subsequent to a "no paper", "no ribbon" or "carriage open" error

Model	Support
TTP-243 series	
TTP-243 Plus series	Х
TTP-244ME series	
TTP-244ME Plus series	Х
TTP-244 series	X
TTP-244CE series	X
TTP-245 series	X
TTP-245C series	X
TDP-245 series	X
TTP-246M series	X
TTP-248M series	
TTP-2410M series	X
TDP-643 Plus	
TDP-643R Plus	X
TTP-342 series	
TTP-342 Plus series	X
TTP-342M series	
TTP-342M Plus series	X
TTP-343 series	X
TTP-343C series	X
TTP-344M series	X
TTP-346M series	X
TTP-384M series	Х
TTP-644M series	Х
M23 series	

Syntax

SET REPRINT OFF/ON

Parameter Description

OFF Disable this function ON Enable this function

Example

SET REPRINT ON

• PEEL

Description

This command obtains the status of the peel-off sensor. This attribute is read only.

Syntax

PEEL

Return Value	<u>Description</u>
0	Paper is not on top of peel sensor
1	Paper is on top of peel sensor

Example

```
DOWNLOAD "DEMO.BAS"
SIZE 4.1
GAP 0,0
SPEED 4
DENSITY 8
SET PEEL OFF
SET KEY1 OFF
SET LED1 OFF
SET LED3 OFF
:START
LED1=0
LED3=0
 IF KEY1=1 THEN GOTO A
GOTO START
:A
LED1=1
CLS
TEXT 10,10,"3",0,1,1,"PEEL Function Test!!"
PRINT 1,1
:B
LED1=0
IF PEEL=1 THEN
 LED3=1
 GOTO B
ELSE
 CLS
 TEXT 10,10,"3",0,1,1,"The label is removed from the PEEL sensor!!"
 PRINT 1,1
 GOTO START
ENDIF
EOP
DEMO
```

• LED1, LED2, LED3

Description

This command is used to control LED on/off. This attribute is write-only. Specify 1 to light on LED and 0 to turn off LED. Before using this command, be sure to cancel the default LED functions. Please refer to the SET LED command.

Model	LED1	LED2	LED3	LED2 & LED3
TTP-243 series	POWER	ONLINE	ERROR	
TTP-243 Plus series	POWER	ONLINE	ERROR	
TTP-244ME series	POWER	ONLINE	ERROR	
TTP-244ME Plus series	POWER	ONLINE	ERROR	
TTP-244 series	POWER	ONLINE	ERROR	
TTP-244CE series	POWER	ONLINE	ERROR	
TTP-245 series	GREEN	GREEN	RED	ORANGE
TTP-245C series	GREEN	GREEN	RED	ORANGE
TDP-245 series	GREEN	GREEN	RED	ORANGE
TTP-246M series	POWER	ONLINE	ERROR	
TTP-248M series	POWER	ONLINE	ERROR	
TTP-2410M series	POWER	ONLINE	ERROR	
TDP-643 Plus	ONLINE	ERROR	ERROR	
TDP-643R Plus	ONLINE	ERROR	ERROR	
TTP-342 series	POWER	ONLINE	ERROR	
TTP-342 Plus series	POWER	ONLINE	ERROR	
TTP-342M series	POWER	ONLINE	ERROR	
TTP-342M Plus series	POWER	ONLINE	ERROR	
TTP-343 series	GREEN	GREEN	RED	ORANGE
TTP-343C series	GREEN	GREEN	RED	ORANGE
TTP-344M series	POWER	ONLINE	ERROR	
TTP-346M series	POWER	ONLINE	ERROR	
TTP-384M series	POWER	ONLINE	ERROR	
TTP-644M series	POWER	ONLINE	ERROR	
M23 series				

Note: For TTP-245/343/TDP-245 series, the LED1=LED2.

Syntax

LEDm=n

<u>Parameter</u>	Description
m	m=1, LED1
	m=2, LED2
	m=3, LED3
n	0: turn off LED
	1: light on LED

Example

DOWNLOAD "DEMO.BAS"

SIZE 3,3 GAP 0.12,0 SPEED 4 DENSITY 8 DIRECTION 1

REFERENCE 0,0 SET CUTTER OFF SET PEEL OFF

SET PEEL OFF SET LED1 OFF SET LED2 OFF SET LED3 OFF

LED1=0 LED2=1 LED3=0 EOP

• KEY1, KEY2, KEY3

Description

This command reads the status of KEY1 ,KEY2 and KEY3.

Model	KEY0	KEY1	KEY2	KEY3	KEY4	KEY5	KEY6
TTP-243 series		PAUSE	FEED				
TTP-243 Plus series		PAUSE	FEED				
TTP-244ME series		PAUSE	FEED				
TTP-244ME Plus series		PAUSE	FEED				
TTP-244 series		PAUSE	FEED				
TTP-244CE series		FEED					
TTP-245 series		FEED					
TTP-245C series		FEED					
TDP-245 series		FEED					
TTP-246M series*		MENU	PAUSE	FEED	(UP)	(DOWN)	(SELECT)
TTP-248M series		MENU	PAUSE	FEED			
TTP-2410M series		MENU	PAUSE	FEED	UP	DOWN	SELECT
TDP-643 Plus		PAUSE					
TDP-643R Plus		PAUSE					
TTP-342 series		PAUSE	FEED				
TTP-342 Plus series		PAUSE	FEED				
TTP-342M series		PAUSE	FEED				
TTP-342M Plus series		PAUSE	FEED				
TTP-343 series		FEED					
TTP-343C series		FEED					
TTP-344M series		MENU	PAUSE	FEED	(UP)	(DOWN)	(SELECT)
TTP-346M series*		MENU	PAUSE	FEED	UP	DOWN	SELECT
TTP-384M series		MENU	PAUSE	FEED	UP	DOWN	SELECT
TTP-644M series		MENU	PAUSE	FEED	UP	DOWN	SELECT
M23 series	FEED	LEFT	MID	RIGHT			

^{*} For TTP-246M Plus and TTP-344M Plus, there are 6 button on the control panel.

Syntax

KEYm=n

Key
KEY1 (MENU)
0: released
1: pressed
KEY2 (PAUDE)
0: released
1: pressed
KEY3 (FEED)
0: released
1: pressed
1: pressed

Example

```
DOWNLOAD "DEMO.BAS"
SIZE 3,1
GAP 0,0
SPEED 4
DENSITY 8
DIRECTION 1
REFERENCE 0,0
SET LED1 OFF
SET KEY1 OFF
LED1=0
:START
IF KEY1=1 THEN
LED1=1
CLS
TEXT 100,10,"3",0,1,1,"KEY FUNCTION TEST"
PRINT 1,1
ELSE
LED1=0
ENDIF
GOTO START
EOP
DEMO
```

Printer Global Variables

@LABEL

Description

This variable counts how many pieces of labels have been printed. This attribute cannot be initialized if the printer is reset, and will be retained if the printer power is turned off.

Syntax

Write attribute: @LABEL=n or @LABEL="n" Read attribute: A=LABEL or A\$=STR\$(LABEL)

<u>Parameter</u> <u>Description</u>

n Number of labels printed. 0<=n<=9999999999

Example

```
DOWNLOAD "DEMO.BAS"
SIZE 4,2.5
GAP 2 mm.0
SPEED 6
DENSITY 12
CLS
TEXT 10,50,"3",0,1,1,@LABEL
TEXT 10,100,"3",0,1,1,"@LABEL="+STR$(LABEL)
TEXT 10,150,"3",0,1,1,"*****Statement 1*****"
  IF LABEL>1000 THEN
    TEXT 10,200,"3",0,1,1,"LABEL>1000"
  ELSE
    TEXT 10,200,"3",0,1,1,"LABEL<1000"
  ENDIF
TEXT 10,250,"3",0,1,1,"*****Statement 1*****"
  A=LABEL
  IF A>1000 THEN
     TEXT 10,300,"3",0,1,1,"A>1000"
  ELSE
    TEXT 10,300,"3",0,1,1,"A<1000"
  ENDIF
TEXT 10,350,"3",0,1,1,"*****Statement 3*****"
  A$=STR$(LABEL)
  IF VAL(A$)>1000 THEN
    TEXT 10,400,"3",0,1,1,"VAL(A$)>1000"
    TEXT 10,400,"3",0,1,1,"VAL(A$)<1000"
  ENDIF
PRINT 1,1
EOP
```

YEAR

Description

This variable reads/writes the year data via the Real Time Clock (RTC). Four-digit year formats are supported by RTC.

Syntax

Write attribute: YEAR=02 Read attribute: A=YEAR

Range: 00~50=2000~2050; 51~99=1951~1999

Example

```
DOWNLOAD "SetYear.BAS"
REM *****Set Year Parameter to RTC*****
YEAR=05
EOP
SetYear

DOWNLOAD "DEMO.BAS"
SIZE 3,3
GAP 0.08,0
DENSITY 8
SPEED 4
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
CLS
```

REM *****Read YEAR parameter form RTC*****
YEAR\$=STR\$(YEAR)

Y=YEAR

REM *****Print*****
TEXT 10,10,"5",0,1,1,"YEAR1="+YEAR\$
TEXT 10,110,"5",0,1,1,"YEAR2="+STR\$(Y)
TEXT 10,210,"5",0,1,1,"YEAR3="+STR\$(YEAR)
PRINT 1
EOP
DEMO

See Also

MONTH

Description

This variable reads/writes the month data via the Real Time Clock (RTC). Two-digit (01~12) month formats are supported by RTC.

Syntax

Write attribute: MONTH=01 Read attribute: A=MONTH

Range: 01~12

Example

DOWNLOAD "SetMonth.BAS"

PEM *****Set Month Parameter

REM *****Set Month Parameter to RTC*****

MONTH=05

EOP

SetMonth

DOWNLOAD "DEMO.BAS"

SIZE 3,3

GAP 0.08,0

DENSITY 8

SPEED 4

DIRECTION 0

REFERENCE 0,0

SET CUTTER OFF

SET PEEL OFF

CLS

REM *****Read Month parameter form RTC*****

MONTH\$=STR\$(MONTH)

M=MONTH

REM *****Print*****

TEXT 10,10,"5",0,1,1,"MONTH1="+MONTH\$

TEXT 10,110,"5",0,1,1,"MONTH2="+STR\$(M)

TEXT 10,210,"5",0,1,1,"MONTH3="+STR\$(MONTH)

PRINT 1

EOP

DEMO

See Also

DATE

Description

This variable reads/writes the date data via the Real Time Clock (RTC). Two-digit (01~31) date formats are supported by RTC.

Syntax

Write attribute: DATE=12 Read attribute: A=DATE

Range: 01~31

Example

DOWNLOAD "SetDate.BAS"
REM *****Set Date Parameter to RTC*****
DATE=30
EOP
SetDate

DOWNLOAD "DEMO.BAS" SIZE 3,3 GAP 0.08,0 DENSITY 8 SPEED 4 DIRECTION 0 REFERENCE 0,0

SET CUTTER OFF SET PEEL OFF

CLS

REM *****Read Date parameter form RTC*****
DATE\$=STR\$(DATE)

D=DATE

REM *****Print****
TEXT 10,10,"5",0,1,1,"DATE1="+DATE\$
TEXT 10,110,"5",0,1,1,"DATE2="+STR\$(D)
TEXT 10,210,"5",0,1,1,"DATE3="+STR\$(DATE)
PRINT 1
EOP

See Also

DEMO

WEEK

Description

This variable reads/writes the day of the week data via the Real Time Clock (RTC), which is represented by one single digit (1~7).

Syntax

Write attribute: WEEK=3 Read attribute: A=WEEK

Range: 1(Sunday)~7(Saturday)

Example

DOWNLOAD "SetWeek.BAS"
REM *****Set Week Parameter to RTC*****

KEW Set Week Parameter

WEEK=6 EOP

SetWeek

DOWNLOAD "DEMO.BAS"

SIZE 3.3

GAP 0.08,0

DENSITY 8

SPEED 4

DIRECTION 0

REFERENCE 0,0

SET CUTTER OFF

SET PEEL OFF

CLS

REM *****Read Week parameter form RTC*****

WEEK\$=STR\$(WEEK)

W=WEEK

REM *****Print*****

TEXT 10,10,"5",0,1,1,"WEEK1="+WEEK\$

TEXT 10,110,"5",0,1,1,"WEEK2="+STR\$(W)

TEXT 10,210,"5",0,1,1,"WEEK3="+STR\$(WEEK)

PRINT 1

EOP

DEMO

See Also

HOUR

Description

This variable reads/writes the hour data via the Real Time Clock (RTC). The 24-hour-day system (00~23) is supported by RTC.

Syntax

Write attribute: HOUR=12 Read attribute: A=HOUR

Range: 00~23

Example

DOWNLOAD "SetHour.BAS"
REM *****Set Hour Parameter to RTC****
HOUR=11
EOP
SetHour

DOWNLOAD "DEMO.BAS"
SIZE 3,3
GAP 0 08 0

GAP 0.08,0 DENSITY 8 SPEED 4 DIRECTION 0 REFERENCE 0,0 SET CUTTER OFF SET PEEL OFF CLS

REM *****Read Hour parameter form RTC*****
HOUR\$=STR\$(HOUR)

H=HOUR

REM *****Print****
TEXT 10,10,"5",0,1,1,"HOUR1="+HOUR\$
TEXT 10,110,"5",0,1,1,"HOUR2="+STR\$(H)
TEXT 10,210,"5",0,1,1,"HOUR3="+STR\$(HOUR)
PRINT 1

EOP DEMO

See Also

MINUTE

Description

This variable reads/writes the minute data via the Real Time Clock (RTC). Two-digits (00~59) minute format is supported by RTC.

Syntax

Write attribute: MINUTE=12 Read attribute: A=MINUTE

Range: 00~59

Example

DOWNLOAD "SetMinute.BAS"
REM *****Set Minute Parameter to RTC*****
MINUTE=59
EOP
SetMinute

DOWNLOAD "DEMO.BAS"
SIZE 3,3
GAP 0.08,0

DENSITY 8
SPEED 4
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
CLS

REM *****Read Minute parameter form RTC*****
MINUTE\$=STR\$(MINUTE)

MIN=MINUTE

REM *****Print****
TEXT 10,10,"5",0,1,1,"MINUTE1="+MINUTE\$
TEXT 10,110,"5",0,1,1,"MINUTE2="+STR\$(MIN)
TEXT 10,210,"5",0,1,1,"MINUTE3="+STR\$(MINUTE)
PRINT 1
EOP
DEMO

See Also

SECOND

Description

This variable reads/writes the second data via the Real Time Clock (RTC). Two-digits (00~59) second format is supported by RTC.

Syntax

Write attribute: SECOND=12 Read attribute: A=SECOND

Range: 00~59

Example

DOWNLOAD "SetSecond.BAS" REM *****Set Second Parameter to RTC***** SECOND=59 **EOP** SetSecond DOWNLOAD "DEMO.BAS" **SIZE 3,3**

GAP 0.08,0 **DENSITY 8** SPEED 4 **DIRECTION 0** REFERENCE 0,0 SET CUTTER OFF SET PEEL OFF **CLS**

REM *****Read Second parameter form RTC***** SECOND\$=STR\$(SECOND)

SEC=SECOND

REM *****Print***** TEXT 10,10,"5",0,1,1,"SECOND1="+SECOND\$ TEXT 10,110,"5",0,1,1,"SECOND2="+STR\$(SEC) TEXT 10,210,"5",0,1,1,"SECOND3="+STR\$(SECOND) PRINT 1 **EOP DEMO**

See Also

• @YEAR

Description

This variable reads/writes the year data via the Real Time Clock (RTC). Two-digit year formats are supported by RTC.

@YEAR global variable can be accessed directly without using BASIC language functions.

Model	Support
TTP-243 series	
TTP-243 Plus series	X
TTP-244ME series	
TTP-244ME Plus series	X
TTP-244 series	X
TTP-244CE series	X
TTP-245 series	X
TTP-245C series	X
TDP-245 series	X
TTP-246M series	X
TTP-248M series	
TTP-2410M series	X
TDP-643 Plus	X
TDP-643R Plus	X
TTP-342 series	
TTP-342 Plus series	X
TTP-342M series	
TTP-342M Plus series	X
TTP-343 series	X
TTP-343C series	X
TTP-344M series	Х
TTP-346M series	Х
TTP-384M series	Х
TTP-644M series	Х
M23 series	

Syntax

Write attribute: @YEAR="01" Read attribute: @YEAR

Range: 00~99

Example

REM *****Set @YEAR*****

@YEAR="05"

REM *****Print****
SIZE 3,3
GAP 0.08,0
DENSITY 8
SPEED 6
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
CLS
TEXT 10,10,"5",0,1,1,"@YEAR"
TEXT 310,10,"5",0,1,1,@YEAR
PRINT 1

See Also

• @MONTH

Description

This variable reads/writes the month data via the Real Time Clock (RTC). Two-digits (01~12) month formats are supported by RTC.

@MONTH global variable can be accessed directly without using BASIC language functions.

Model	Support
TTP-243 series	
TTP-243 Plus series	Х
TTP-244ME series	
TTP-244ME Plus series	X
TTP-244 series	X
TTP-244CE series	X
TTP-245 series	Х
TTP-245C series	X
TDP-245 series	X
TTP-246M series	X
TTP-248M series	
TTP-2410M series	X
TDP-643 Plus	X
TDP-643R Plus	Х
TTP-342 series	
TTP-342 Plus series	X
TTP-342M series	
TTP-342M Plus series	X
TTP-343 series	X
TTP-343C series	X
TTP-344M series	X
TTP-346M series	X
TTP-384M series	X
TTP-644M series	X
M23 series	

Syntax

Write attribute: @MONTH="01" Read attribute: @MONTH

Range: 01~12

Example

REM *****Set @MONTH*****
@MONTH="12"

REM *****Print*****

SIZE 3,3
GAP 0.08,0
DENSITY 8
SPEED 6
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
CLS
TEXT 10,10,"5",0,1,1,"@MONTH"
TEXT 310,10,"5",0,1,1,@MONTH
PRINT 1

See Also

~!C, @YEAR, @DATE, @DAY, @HOUR, @MINUTE, @SECOND

• @DATE

Description

This variable reads/writes the date data via the Real Time Clock (RTC). Two-digits (01~31) date formats are supported by RTC.

@DATE global variable can be accessed directly without using BASIC language functions.

Model	Support
TTP-243 series	
TTP-243 Plus series	Х
TTP-244ME series	
TTP-244ME Plus series	X
TTP-244 series	X
TTP-244CE series	X
TTP-245 series	X
TTP-245C series	X
TDP-245 series	X
TTP-246M series	X
TTP-248M series	
TTP-2410M series	X
TDP-643 Plus	X
TDP-643R Plus	X
TTP-342 series	
TTP-342 Plus series	X
TTP-342M series	
TTP-342M Plus series	X
TTP-343 series	X
TTP-343C series	X
TTP-344M series	X
TTP-346M series	X
TTP-384M series	X
TTP-644M series	X
M23 series	

Syntax

Write attribute: @DATE="12" Read attribute: @DATE

Range: 01~31

Example

REM *****Set @DATE***** @DATE="31"

REM *****Print*****

SIZE 3,3
GAP 0.08,0
DENSITY 8
SPEED 6
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
CLS
TEXT 10,10,"5",0,1,1,"@DATE"
TEXT 310,10,"5",0,1,1,@DATE
PRINT 1

See Also

~!C, @YEAR, @MONTH, @DAY, @HOUR, @MINUTE, @SECOND

@DAY

Description

This variable reads/writes the day of the week data via the Real Time Clock (RTC), which is represented by one single digit (1~7).

@DAY global variable can be accessed directly without using BASIC language functions.

Model	Support
TTP-243 series	
TTP-243 Plus series	Х
TTP-244ME series	
TTP-244ME Plus series	Χ
TTP-244 series	X
TTP-244CE series	X
TTP-245 series	X
TTP-245C series	X
TDP-245 series	X
TTP-246M series	X
TTP-248M series	
TTP-2410M series	X
TDP-643 Plus	X
TDP-643R Plus	X
TTP-342 series	
TTP-342 Plus series	X
TTP-342M series	
TTP-342M Plus series	X
TTP-343 series	X
TTP-343C series	X
TTP-344M series	X
TTP-346M series	X
TTP-384M series	Χ
TTP-644M series	X
M23 series	

Syntax

Write attribute: @DAY="3" Read attribute: @DAY

Range: 1(Sunday)~7(Saturday)

Example

REM ****Set @DAY**** @DAY="5"

REM *****Print*****

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SIZE 3,3
GAP 0.08,0
DENSITY 8
SPEED 6
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
CLS
TEXT 10,10,"5",0,1,1,"@DAY"
TEXT 310,10,"5",0,1,1,@DAY
PRINT 1

See Also

~!C, @YEAR, @MONTH, @DATE, @HOUR, @MINUTE, @SECOND

• @HOUR

Description

This variable reads/writes the hour data via the Real Time Clock (RTC). The 24-hour-day system (00~23) is supported by RTC.

@HOUR global variable can be accessed directly without using BASIC language functions.

Model	Support
TTP-243 series	
TTP-243 Plus series	Х
TTP-244ME series	
TTP-244ME Plus series	X
TTP-244 series	X
TTP-244CE series	X
TTP-245 series	X
TTP-245C series	Х
TDP-245 series	X
TTP-246M series	Х
TTP-248M series	
TTP-2410M series	Χ
TDP-643 Plus	Χ
TDP-643R Plus	Х
TTP-342 series	
TTP-342 Plus series	Х
TTP-342M series	
TTP-342M Plus series	X
TTP-343 series	X
TTP-343C series	X
TTP-344M series	X
TTP-346M series	Х
TTP-384M series	Х
TTP-644M series	Х
M23 series	

Syntax

Write attribute: @HOUR ="12" Read attribute: @HOUR

Range: 00~23

Example

REM *****Set @HOUR***** @HOUR="23"

REM *****Print*****

SIZE 3,3
GAP 0.08,0
DENSITY 8
SPEED 6
DIRECTION 0
REFERENCE 0,0
SET CUTTER OFF
SET PEEL OFF
CLS
TEXT 10,10,"5",0,1,1,"@HOUR"
TEXT 310,10,"5",0,1,1,@HOUR
PRINT 1

See Also

~!C, @YEAR, @MONTH, @DATE, @DAY, @MINUTE, @SECOND

• @MINUTE

Description

This variable reads/writes the minute data via the Real Time Clock (RTC). The two-digits (00~59) minute format is supported by RTC. @MINUTE global variable can be accessed directly without using BASIC language functions.

Model	Support
TTP-243 series	
TTP-243 Plus series	Х
TTP-244ME series	
TTP-244ME Plus series	X
TTP-244 series	X
TTP-244CE series	X
TTP-245 series	X
TTP-245C series	X
TDP-245 series	X
TTP-246M series	X
TTP-248M series	
TTP-2410M series	X
TDP-643 Plus	X
TDP-643R Plus	X
TTP-342 series	
TTP-342 Plus series	X
TTP-342M series	
TTP-342M Plus series	X
TTP-343 series	X
TTP-343C series	X
TTP-344M series	X
TTP-346M series	X
TTP-384M series	X
TTP-644M series	Х
M23 series	

Syntax

Write attribute: @MINUTE ="12" Read attribute: @MINUTE

Range: 00~59

Example

REM *****Set @MINUTE*****

@MINUTE="59"

REM *****Print*****

SIZE 3,3

GAP 0.08,0 DENSITY 8 SPEED 6 DIRECTION 0 REFERENCE 0,0 SET CUTTER OFF SET PEEL OFF CLS TEXT 10,10,"5",0,1,1,"@MINUTE" TEXT 310,10,"5",0,1,1,@MINUTE PRINT 1

See Also

~!C, @YEAR, @MONTH, @DATE, @DAY, @HOUR, @SECOND

@SECOND

Description

This variable reads/writes the second data via the Real Time Clock (RTC). The Two-digit (00~59) second format is supported by RTC.

@SECOND global variable can be accessed directly without using BASIC language functions.

Model	Support
TTP-243 series	
TTP-243 Plus series	Х
TTP-244ME series	
TTP-244ME Plus series	X
TTP-244 series	X
TTP-244CE series	X
TTP-245 series	X
TTP-245C series	X
TDP-245 series	X
TTP-246M series	X
TTP-248M series	
TTP-2410M series	X
TDP-643 Plus	X
TDP-643R Plus	X
TTP-342 series	
TTP-342 Plus series	X
TTP-342M series	
TTP-342M Plus series	X
TTP-343 series	X
TTP-343C series	X
TTP-344M series	X
TTP-346M series	X
TTP-384M series	X
TTP-644M series	X
M23 series	

Syntax

Write attribute: @SECOND="12" Read attribute: @SECOND

Range: 00~59

Example

REM *****Set @SECOND*****

@SECOND="59"

REM *****Print*****

SIZE 3,3

GAP 0,0 DENSITY 8 SPEED 6 DIRECTION 0 REFERENCE 0,0 SET CUTTER OFF SET PEEL OFF CLS TEXT 10,10,"5",0,1,1,"@SECOND" TEXT 310,10,"5",0,1,1,@SECOND PRINT 1

See Also

~!C, @YEAR, @MONTH, @DATE, @DAY, @HOUR, @MINUTE



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