

User Manual



TG1260/2460

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TG1260/2460



PRINTER COMPONENTS

The figures showed list printer parts with USB interface but the remarks are good for the RS232 interface printers too (apart from the connector).

A. TG1260/TG2460-x-A⁽¹⁾ External view

 ⁽¹⁾ The x suffix indicates the following models : -TG1260/TG2460-U-A: USB interface, metal front panel and autocutter model.
 -TG1260/TG2460-S-A: RS232 serial interface, metal front panel and autocutter model.

- '1- Printing mechanism
 2- Autocutter
 3- "Print" key
 4- "Feed" key
 5- Power supply connector
 6- USB interface connector
 7- Printer frame
- 8- Autocutter support plate
- 9- Paper output
- 10 Status led



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B. TG1260/TG2460-x-P⁽²⁾ external view



- $^{(2)}$ The **x** suffix indicates the following models :
- TG1260/TG2460-U-P: USB interface and plastic front panel.
- TG1260/TG2460-S-P: RS232 serial interface and plastic front panel.
- 1-Printing mechanism
- 2- "Print" key
- 3- "Feed" key
- 4- Power supply connector
- 5- USB interface connector
- 6- Printer frame
- 7- Plastic front panel
- 8- Paper output
- 9- Status Led



C. TG1260/TG2460-x-M (3) external view

 $^{(3)}$ The **x** suffix indicates the following models :

- TG1260/TG2460-U-M: USB interface and metal front panel without autocutter model. - TG1260/TG2460-S-M: RS232 serial interface and metal front panel without autocutter model.
- 1-Printing mechanism
- 2- "Print" key
- 3- "Feed" key
- 4- Power supply connector
- 5- USB interface connector
- 6- Printer frame
- 7- Metal front panel
- 8- Paper output
- 9- Status Led



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D. Back view (4)



 $^{(4)}$ The back view is the same for all models available.

- Paper input
 Inspection cover for paper outlet



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INTRODUCTION

MANUAL ORGANIZATION

In addition to the Introduction which contains information regarding the symbols used in the manual, general safety information, instructions for unpacking the printer and a brief description and main characteristics of the machine, this manual is divided into the following chapters:

- Chapter 1: Contains the information required for correct printer installation and use
- Chapter 2: Contains a description of printer controls
- Chapter 3: Contains printer technical data
- Chapter 4: Contains the character sets (fonts) used by the printer
- Appendix: Contains the printer accessories and spare parts description

SYMBOLS USED IN THE MANUAL

NOTE

Gives important information or suggestions for printer use.



WARNING

Information indicated by this symbol must be followed carefully to avoid damaging the printer.

DANGER

Information indicated by this symbol must be followed carefully to avoid damage or operator injury.

GENERAL SAFETY INFORMATIONS

- Read and retain the instructions which follow.
- Before cleaning the printer, be sure to pull out the electrical cable.
- Use a damp cloth to clean the printer. Do not use liquid or spray products.
- Do not operate the printer near water.
- When positioning the printer, make sure its cables will not be damaged.
- Use the type of electrical power supply indicated on the printer label. If uncertain, contact your dealer.
- Do not insert objects inside the printer as this could cause short-circuiting or damage components that could jeopardize printer functioning.
- Do not spill liquids onto the machine.
- Do not carry out repairs on the machine yourself, except for the normal maintenance operations given in the user manual.
- Unplug the printer from the electrical mains and call a specialized repairman if any of the following conditions should arise:
 - A. the power supply connector is damaged
 - B. liquid has spilled into the printer
 - C. the printer has been exposed to rain or water
 - D. the printer is not functioning normally despite the fact that all instructions given in the user manual have been followed
 - E. the printer has been dropped and the cover is damaged
 - F. printer performance is noticeably reduced
 - G. the printer is not working



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INTRODUCTION

UNPACKING THE PRINTER

Remove the printer from the carton, taking care not to damage the packing materials which should be retained for future shipping/moving.

Make sure all components listed below are present and not damaged. If any part is missing and/or damaged, contact customer service.

- 1. Box
- Foam packing shell 2.
- Print 3.
- Paper roll 4.
- Manual (or CD-rom) 5.
- Electrical supply cable 6.

PRINTER DESCRIPTION

Ultra compact thermal printer (only 9cm deep) for dispensing 60 mm tickets width, easy to install (4 fastening holes and ticket presentation to user incorporated). Thanks to the exclusive anti-paper-jam system, the ticket will always be promptly dispensed to the user. Thanks to an innovative type of paper roll holding bracket, it is possible to accommodate up to 80 mm external diameter paper rolls, adapt the printer to the mechanical space requirements necessitated by the application (3 positions: upper, lower and rear) and manage the near paper end signal. It is equipped with a 204 dpi thermal print mechanism; it has the serial RS232 interface and the USB interface and it's also available a version equipped with fireproof plastic or metal front panel, with or without autocutter.



- When the "PRINT" key is pressed during printer power up, it prints the graphic test.
- When the "FEED" key is pressed during printer power up, it prints the font test.
- When both the "PRINT" and the "FEED" keys are pressed during printer power up, it prints the SETUP report. Pressing the "PRINT" key it's possible to change the parameters value and to print the parameter current value; pressing the "FEED" key it's possible to pass to the next parameter till the end of the SETUP.
- The green Status LED displays a printer hardware error status and the winnings. The check is carried out"on line", i.e. in the event of a malfunctioning, the LED will starts flashing as follows:

STATUS LED	DESCRIPTION
Always OFF	Printer OFF
Always ON	Printer ON: no faults
Slow flashing (on for a short period)	Tilting cover raised
Slow flashing (on for a long period)	Paper out message
Fast flashing	Temperature or voltage ERROR

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MAIN APPLICATIONS

This printer is the ideal solution for :

- kiosks (internet, public offices, bookings, bank transactions);
- self-service;
- ticket dispensing (public/private transport, automatic payments);
- parking lots:
- queue management systems.

- instant lotteries;
- instruments;
- gaming machines;
- vending machines;

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1.1 CONNECTIONS



1.1.1 Power supply (1260)

Every printer available is equipped with a 2 pin male molex connector serie 5569, for the power supply. The signals on the pins of the feed connector are as follows:

Model no. type :

 Header :
 90° Molex serie 5569 (no. 39-30-1020)

 Housing:
 Molex serie 5557 (no. 39-01-3022)

PIN	SIGNAL	DESCRIPTION	
1	+ 12 V	POWER	(Tab.1.1)
2	GND	SIGNAL GROUND	



WARNING:

Be sure to observe the correct polarity for the power supply.

1.1.2 Power supply (2460)

Every printer available is equipped with a 2 pin male molex connector serie 5569, for the power supply. The signals on the pins of the feed connector are as follows:

Model no. type :

 Header :
 90° Molex serie 5569 (no. 39-30-1020)

 Housing:
 Molex serie 5557 (no. 39-01-3022)

PIN	SIGNAL	DESCRIPTION
1	+ 24 V	POWER
2	GND	SIGNAL GROUND

(Tab.1.2)



WARNING:

Be sure to observe the correct polarity for the power supply.



1.1.3 USB connector



(Fig.1.2)

The printer with USB interface complies to USB 1.1 specifications that is:

- Communication speed equal to 12 Mbit/sec.
- Type of connector "Receptacle series B".

The signals on the pins of the USB connector are as follows:

PIN	SIGNAL	DESCRIPTION
1	VBUS	N.C.
2	D-	Data -
3	D+	Data +
4	GND	Ground signal
SHELL	SHIELD	Cable shielding

(Tab.1.3)

1.1.4 RS232 serial connector

The printer with serial RS232 interface is equipped with RJ45 connector. In the following table are described the signals on the RS232 connector pins:





PIN	SIGNAL	DESCRIPTION
1	N. C.	Not Connected
2	GND	Ground signal
3	TXD	Data transmission
4	RXD	Data reception
5	RTS	Ready to send
6	N. C.	Not Connected
7	N. C.	Not Connected
8	N. C.	Not Connected

(Tab.1.4)

1.1.5 Connection Printer-PC

The diagrams below show a sample connection between printer and Personal Computer using a 8 pin male RJ45 connector by printer side and a 9 pin female connector by a PC side.



1.2 SETUP

The printer enables the configuration of the printer default parameters (see fig. 1.4) pressing both the "PRINT" and the "FEED" keys during the printer power up. The parameters affected during configuration are:

- **Printer emulation:** ESC/POS^{™ D}, CUSTOM DPT24, CUSTOM DPT42 o CBM iDP560RS.
- **Baud Rate:** 115200, 57600, 38400, 19200^{*p*}, 9600, 4800, 2400, 1200.
- Data Lenght: 7, 8^{*p*} bits/chr.
- **Parity:** None^{*D*}, even or odd.
- Handshaking: XON/XOFF^D or Hardware.
- Autofeed: CR disabled^p o CR enabled.
- **USB Address**⁽²⁾: 0^{*D*}, 1, 2, 3, 4, 5, 6, 7, 8, 9.
- **USB Monitor**⁽²⁾: Disabled^D or enabled.
- **Panel key:** Enabled^{*p*} or Disabled.
- **Print mode:** Normal^{*p*} o Reverse.
- Font type:

"ESC/POS" emulation: Chars / line: A=32 / B=42 col.^{*p*} or A=42 / B=56 col. "DPT24" emulation: Font type : Font A^{*p*} or Font B. "DPT42" emulation: Font type : Font A^{*p*} or Font B. "CBM iDP560RS" emulation: Font dimensions: $11x24^{p}40$ col. or 18x2424 col.

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- **Speed/Quality:** Normal^{*p*}, Low.
- **Offline**⁽¹⁾: Disabled^{*p*}, Enabled.
- Print density: Normal^D, Dark, Very Dark, Light, Very Light.

Notes: The parameters indicates with a ^{*p*} symbol are the default values.

🔪 (1) NOTE:

TE: Using this parameter, it is possible to select whether the Busy signal is activated when the printer is both in Off Line status and the buffer is full, or only if the reception buffer is full.



: These parameters are shown only for the USB interface models.

The settings made are saved on the EEPROM (non volatile memory).

During the setup routine the printer prints out the setup report and will remain in standby until another key is pressed or characters are received through the printer communication port. After this, each time the "PRINT" key is pressed, the parameter is modified and its current value is printed. Once the required value has been obtained, press the "FEED" key to proceed to the next parameter, and so on. Once all the parameters have been run through, the printing of a message signals the end of the setting procedure.

1.3 AUTOTEST

To run the autotest, press the "FEED" key while switching on the printer. During the running of the autotest, the character fonts and logos stored inside the printer are printed.

* PRINTER SETUP *				
PRINTER BUFFE CUTTER HEADVOLTAGE	ORYOK ROK VJ = 24,00 RE[°C] = 32,5			
Printer Emul. Baud Rate Data length Parity Handshaking Autofeed USB Address USB Monitor Panel key Print Mode Chars / line Speed/Quality Offline Print Density [PRINT] key to en	: ESC/POS (TM) : 115200 bps : 8 bits/chr : None : Xon/Xoff : CR disabled : 0 : Disabled : Enabled : Normal : A=32/B=42 col : Normal : Disabled : Normal : Disabled : Normal			
[FEED] key to sk				

(Fig.1.5)

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1.4 MAINTENANCE

1.4.1 Changing the paper roll

Every time you change the paper, referred to fig.1.5, need to check as follows :

• Lift the wicket relative to paper roll compartment, and check that there are no scraps of paper at the area indicated with a) letter near the printing head. If there are, remove the scraps before proceeding with any other operation.



WARNING: Periodically remove accumulated paper dust from the drag paper roll and the area around the paper outfeed sensor (see fig. 1.5 in the he points indicated with b letter).



To clean, do not use harsh chemical solvents; the use of a soft, alcohol-moistened cloth is recommended.

To change the paper roll in the printer, proceed as follows:

- 1) Position the paper roll (1), so that it rotates in the direction shown in fig.1.6;
- 2) Insert the end of the paper roll in the print mechanism (2) and wait until the roll loads automatically;
- 3) Remove the ticket from the mouth paper output;





WARNING Before inserting the paper, ensure that it is cut evenly.

(Fig.1.8)

1.4.2 Notes for installation and using the printer in the upside down position

To install the printer in the upside down position proceed as follows :





1) Release the spring as indicated in fig. 1.8 and placed it in the new position as indicated in fig. 1.9;



2) The printer is ready to be installed in the upside down position.



(3) NOTE: The operations described are valid for all models.



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2.1 CONTROL CHARACTERS

2.1.1 ESC/POS Emulation

The following table lists all the commands for the management of the ESC/POS[™] Emulation. The commands can be transmitted to the printer at any moment, but they will only be carried out when the commands previously sent have been executed. There are no commands with priority status; all the commands are carried out when the circular buffer is feed to do so.

(Tab.2.1)

COMMAND TABLE

HEX Com.	ASCII Com.	Description
\$08	BS	Moving back of one character
\$09	HT	Horizontal tabs
\$0A	LF	Print and line feed
\$0D	CR	Print and line feed
\$10 \$04 n	DLE EOT n	Real-time status transmission
\$18	CAN	Cancel print data
\$1B \$20 n	ESC SP n	Set character right-side spacing
\$1B \$21 n	ESC ! n	Set print mode
\$1B \$24 nL nH	ESC \$ nL nH	Set absolute position
\$1B \$2A m nL nH d1dk	ESC * m nL nH d1dk	Set bit image mode
\$1B \$2D n	ESC - n	Turn underline mode on/off
\$1B \$30	ESC 0	Select 1/8-inch line spacing
\$1B \$32	ESC 2	Select 1/6-inch line spacing
\$1B \$33 n	ESC 3 n	Set line spacing using minimum units
\$1B \$34 n	ESC 4 n	Set / reset script mode
\$1B \$3D n	ESC = n	Select device
\$1B \$40	ESC @	Initialize printer
\$1B \$44 n1nk 00	ESC D n1nk NUL	Set horizontal tab position
\$1B \$45 n	ESC E n	Select bold mode
\$1B \$47 n	ESC G n	Select double-strike mode
\$1B \$4A n	ESC J n	Print and feed paper
\$1B \$52 n	ESC R n	Select international character set
\$1B \$56 n	ESC V n	Set print mode rotated by 90°
\$1B \$5C nL nH	ESC \ nL nH	Set relative print position
\$1B \$61 n	ESC a n	Select justification
\$1B \$63 \$35 n	ESC c 5 n	Enable / disable panel keys
\$1B \$64 n	ESC d n	Print and feed paper n lines
\$1B \$69	ESC i	Total cut
\$1B \$74 n	ESC t n	Select character code table
\$1B \$76	ESC v	Transmit printer status
\$1B \$78 n	ESC x n	Select speed / quality mode
\$1B \$7B n	ESC { n	Set / cancel upside-down character printing
\$1B \$FA n xH xL yH yL	ESC · n xH xL yH yL	Print graphic bank
\$1B \$FF nL nH d0dn	ESC { } nL nH d0dn	Receive logo and memory in flash
\$1C \$C0 \$34	FS { } 4	Total cut and automatic paper moving back
\$1D \$21 n	GS ! n	Select character size
\$1D \$3A	GS :	Set starting / end of macro definition

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HEX Com.	ASCII Com.	Description
\$1D \$42 n	GS B n	Turn white/black reverse printing on/off
\$1D \$43 \$30 n m	GSC0nm	Select counter print mode
\$1D \$43 \$31 aL aH bL bH n r	GSC1aLaHbLbHnr	Select count mode(A)
\$1D \$43 \$32 nL nH	GSC2nLnH	Select counter
\$1D \$43 \$3B sa \$3B sb \$3B sn \$3B sr \$3B sc \$3B	GS C ; sa ; sb ; sn ; sr ; sc ;	Select count mode (B)
\$1D \$48 n	GSHn	Select printing position of HRI characters
\$1D \$49 n	GSIn	Transmit printer ID
\$1D \$4C nL nH	GSLnLnH	Set left margin
\$1D \$50 x y	GS P x y	Set horizontal and vertical motion units
\$1D \$57 nL nH	GS W nL nH	Set printing area width
\$1D \$5E r t m	GS ^ r t m	Execute macro
\$1D \$63	GS c	Print counter
\$1D \$66 n	GSfn	Select font for HRI characters
\$1D \$68 n	GShn	Select height of bar code
\$1D \$6B m 00	GS k m NUL	Print bar code
\$1D \$72 n	GSrn	Transmit status
\$1D \$77 n	GS w n	Select horizontal size (magnification) of) bar code
\$1D \$7E n	GS ~ n	Set superscript / subscript
\$1D \$7C n	GS n	Set printing density

NOTE: in "Note" column where the model is not specified, the command is valid for all models.

The following pages provide a more detailed description of each command.

\$08			
[Name]	Moving bac	ck of one character	
[Format]	ASCII	BS	
	Hex	08	
	Decimal	8	
[Description]	Moves print	position to previous character.	
[Notes] [Default] [Reference] [Example]	This command can put two characters at the same position.		

[Name]	Horizontal	tabs		
[Format]	ASCII	HT		
	Hex	09		
	Decimal	9		
[Description]	Moves the p	rint position to the next horizontal tab position.		
[Notes]	 This command is ignored if the next horizontal tab position has not been set. 			
	• If the next horizontal tab is outside the print area, the printer will print the entire contents of the print buffer, then proceed with the processing of the horizontal tabs from the beginning of the following line.			
	 The horizontal tabs are set through the command \$1B \$44. 			

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[Default] [Reference]	\$1B \$44				
Example]					
\$0A					
Name]	Print and line feed				
Format]	ASCII LF				
	Hex OA				
	Decimal 10				
Description]	Prints the data in the buffer and feeds one line, based on the current line spacing.				
Notes]	 This command sets the print position at the beginning of the line. 				
[Default]					
Reference]	\$1B \$32, \$1B \$33				
Example]					
\$0D					
Name]	Print and line feed				
[Format]	ASCII CR				
	Hex 0D				
	Decimal 13				
[Description]	When autofeed is \$0D enabled, this command functions in the same way as \$0A, otherwise it is ignored.				
Notes]	• This command sets the print position at the beginning of the line.				
[Default]	 This command sets the print position at the beginning of the line. See autofeed parameter on Setup. 				
[Notes] [Default] [Reference]	• This command sets the print position at the beginning of the line.				
[Default]	 This command sets the print position at the beginning of the line. See autofeed parameter on Setup. 				
[Default] [Reference]	 This command sets the print position at the beginning of the line. See autofeed parameter on Setup. 				
[Default] [Reference] [Example] \$10 \$04 n	 This command sets the print position at the beginning of the line. See autofeed parameter on Setup. 				
[Default] [Reference] [Example]	 This command sets the print position at the beginning of the line. See autofeed parameter on Setup. \$0A 				
Default] Reference] Example] \$10 \$04 n Name]	 This command sets the print position at the beginning of the line. See autofeed parameter on Setup. \$0A Transmission of status in real time ASCII DLE EOT n Hex 10 04 n				
Default] Reference] Example] \$10 \$04 n Name] Format]	 This command sets the print position at the beginning of the line. See autofeed parameter on Setup. \$0A Transmission of status in real time ASCII DLE EOT Hex 10 04 n Decimal 16 4 n 				
[Default] [Reference] [Example] \$10 \$04 n [Name] [Format]	This command sets the print position at the beginning of the line.See autofeed parameter on Setup.\$0ATransmission of status in real timeASCIIDLEEOT n nHex1004 $1 \le n \le 4, n = 17, 20 \le n \le 21$ Her				
[Default] [Reference] [Example] \$10 \$04 n [Name] [Format]	• This command sets the print position at the beginning of the line. See autofeed parameter on Setup. \$0A Transmission of status in real time ASCII DLE EOT n Hex 10 04 n Decimal 16 4 n $1 \le n \le 4, n = 17, 20 \le n \le 21$ Transmits in real time the selected status of the printer specified by <i>n</i> according to the				
[Default] [Reference] [Example] \$10 \$04 n [Name] [Format]	• This command sets the print position at the beginning of the line. See autofeed parameter on Setup. \$0A Transmission of status in real time ASCII DLE EOT n Hex 10 04 n Decimal 16 4 n $1 \le n \le 4, n = 17, 20 \le n \le 21$ Transmits in real time the selected status of the printer specified by <i>n</i> according to the following parameters:				
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Default] Reference] Example] \$10 \$04 n Name] Format]	• This command sets the print position at the beginning of the line. See autofeed parameter on Setup. \$0A Transmission of status in real time ASCII DLE EOT n Hex 10 04 n Decimal 16 4 n $1 \le n \le 4, n = 17, 20 \le n \le 21$ Transmits in real time the selected status of the printer specified by <i>n</i> according to the following parameters: n = 1 transmit printer status n = 2 transmit off-line status n = 3 transmit error status				
Default] Reference] Example] \$10 \$04 n Name] Format]	• This command sets the print position at the beginning of the line. See autofeed parameter on Setup. \$0A Transmission of status in real time ASCII DLE EOT n Hex 10 04 n Decimal 16 4 n $1 \le n \le 4, n = 17, 20 \le n \le 21$ Transmits in real time the selected status of the printer specified by <i>n</i> according to the following parameters: n = 1 transmit printer status n = 2 transmit off-line status n = 3 transmit error status n = 4 transmit paper roll sensor status				
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Default] Reference] Example] \$10 \$04 n Name] Format] Range]	• This command sets the print position at the beginning of the line. See autofeed parameter on Setup. \$0A Transmission of status in real time ASCII DLE EOT n Hex 10 04 n Decimal 16 4 n $1 \le n \le 4, n = 17, 20 \le n \le 21$ Transmits in real time the selected status of the printer specified by <i>n</i> according to the following parameters: n = 1 transmit printer status n = 2 transmit off-line status n = 4 transmit paper roll sensor status n = 17 transmit paper status n = 20 transmit Full Status				
Default] Reference] Example] \$10 \$04 n Name] Format] Range] Description]	• This command sets the print position at the beginning of the line. See autofeed parameter on Setup. \$0A Transmission of status in real time ASCII DLE EOT n Hex 10 04 n Decimal 16 4 n $1 \le n \le 4, n = 17, 20 \le n \le 21$ Transmits in real time the selected status of the printer specified by <i>n</i> according to the following parameters: n = 1 transmit printer status n = 2 transmit off-line status n = 3 transmit error status n = 4 transmit paper roll sensor status n = 17 transmit paper status n = 20 transmit Full Status n = 21 transmit printer ID (\$6D)				
Default] Reference] Example] \$10 \$04 n Name] Format]	• This command sets the print position at the beginning of the line. See autofeed parameter on Setup. \$0A Transmission of status in real time ASCII DLE EOT n Hex 10 04 n Decimal 16 4 n $1 \le n \le 4, n = 17, 20 \le n \le 21$ Transmits in real time the selected status of the printer specified by <i>n</i> according to the following parameters: n = 1 transmit printer status n = 2 transmit off-line status n = 4 transmit paper roll sensor status n = 17 transmit paper status n = 20 transmit Full Status				
Default] Reference] Example] \$10 \$04 n [Name] Format] [Range] [Description]	• This command sets the print position at the beginning of the line. See autofeed parameter on Setup. \$0A Transmission of status in real time ASCII DLE EOT n Hex 10 04 n Decimal 16 4 n $1 \le n \le 4, n = 17, 20 \le n \le 21$ Transmits in real time the selected status of the printer specified by <i>n</i> according to the following parameters: n = 1 transmit printer status n = 2 transmit off-line status n = 3 transmit error status n = 4 transmit paper roll sensor status n = 17 transmit paper status n = 20 transmit Full Status n = 21 transmit printer ID (\$6D) • This command is executed even when the reception buffer is full.				
Default] Reference] Example] \$10 \$04 n Name] Format] Range] Description]	• This command sets the print position at the beginning of the line. See autofeed parameter on Setup. \$0A Transmission of status in real time ASCII DLE EOT n Hex 10 04 n Decimal 16 4 n $1 \le n \le 4, n = 17, 20 \le n \le 21$ Transmits in real time the selected status of the printer specified by <i>n</i> according to the following parameters: n = 1 transmit printer status n = 2 transmit off-line status n = 3 transmit error status n = 4 transmit paper roll sensor status n = 17 transmit paper status n = 20 transmit Full Status n = 21 transmit printer ID (\$6D) • This command is executed even when the reception buffer is full.				
Default] Reference] Example] \$10 \$04 n Name] Format] Range] Description]	• This command sets the print position at the beginning of the line. See autofeed parameter on Setup. \$0A Transmission of status in real time ASCII DLE EOT n Hex 10 04 n Decimal 16 4 n $1 \le n \le 4, n = 17, 20 \le n \le 21$ Transmits in real time the selected status of the printer specified by <i>n</i> according to the following parameters: n = 1 transmit printer status n = 2 transmit off-line status n = 3 transmit printer roll sensor status n = 4 transmit paper roll sensor status n = 20 transmit Full Status n = 21 transmit printer ID (\$6D) • This command is executed even when the reception buffer is full. The status is transmitted whenever the data sequence \$10 \$04 n is received.				
Default] Reference] Example] \$10 \$04 n Name] Format] Range] Description] Notes] Default] Reference]	• This command sets the print position at the beginning of the line. See autofeed parameter on Setup. \$0A Transmission of status in real time ASCII DLE EOT n Hex 10 04 n Decimal 16 4 n $1 \le n \le 4, n = 17, 20 \le n \le 21$ Transmits in real time the selected status of the printer specified by <i>n</i> according to the following parameters: n = 1 transmit printer status n = 2 transmit off-line status n = 3 transmit error status n = 4 transmit paper roll sensor status n = 17 transmit paper status n = 20 transmit Full Status n = 21 transmit printer ID (\$6D) • This command is executed even when the reception buffer is full.				

Bit	Off/On	Hex	Decimal	Function
0	-	-	-	RESERVED.
1	-	-	-	RESERVED
2	-	-	-	RESERVED.
	Off	00	0	On-line.
3	On	08	8	Off-line.
4	-	-	-	RESERVED.
5	-	-	-	RESERVED.
6	-	-	-	RESERVED.
7	-	-	-	RESERVED.

n=2: Off-line status

Bit	Off/On	Hex	Decimal	Function
0	-	-	-	RESERVED.
1	-	-	-	RESERVED.
2	Off	00	0	Print head down (no paper jam).
2	On	04	4	Print head up (paper jam).
	Off	00	0	Paper is not being fed by FEED button.
3	On	08	8	Paper is being fed by FEED button.
4	-	-	-	RESERVED.
5	Off	00	0	No paper end stop.
5	On	20	32	Printing stops due to paper end.
6	Off	00	0	No error
0	On	40	64	Error
7	-	-	-	RESERVED.

n=3: Error status

Bit	Off/On	Hex	Decimal	Function
0	-	-	-	RESERVED.
1	-	-	-	RESERVED.
2	-	-	-	RESERVED.
	Off	00	0	No autocutter error.*
3	On	08	8	Autocutter error.*
4	-	-	-	RESERVED
5	Off	00	0	No irreversible error.
C	On	20	32	Irreversible error.
6	Off	00	0	No auto-recoverable error.
6	On	40	64	Auto-recoverable error.
7	-	-	-	RESERVED.



n=4: Paper roll sensor status

Bit	Off/On	Hex	Decimal	Function
0	-	-	-	RESERVED
1	-	-	-	RESERVED
	Off	00	0	Paper is detected by the near paper end sensor.
2, 3	On	0C	12	Paper end sensor not presentor near paper end.
4	-	-	-	RESERVED
	Off	00	0	Paper is detected by the paper end sensor.
5, 6	On	60	96	Paper end is detected by the paper end sensor.
7	-	-	-	RESERVED

n=17: Paper status

Bit	Off/On	Hex	Decimal	Function
0	-	-	-	RESERVED
1	-	-	-	RESERVED
2	Off	00	0	Motor not running.
	On	04	8	Motor running.
3	-	-	-	RESERVED
4	-	-	-	RESERVED
_	Off	00	0	Paper in.
5	On	20	32	Paper end.
6	-	-	-	RESERVED.
7	-	-	-	RESERVED

n=20: Full Status (6 bytes)

1° Byte = \$10 (DLE)

2° Byte = \$0F

3° Byte = Paper Status

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	Paper in.
0	On	01	1	Paper end.
1	-	-	-	RESERVED.
2	Off	00	0	Paper in.
2	On 04 4	Near paper end.		
3	-	-	-	RESERVED.
4	-	-	-	RESERVED.
5	Off	00	0	Ticket out sensor free
5	On	20	32	Ticket out sensor busy
6	-	-	-	RESERVED.
7	-	-	-	RESERVED.

4° Byte = User Status

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	Print head down.
0	On	01	1	Print head up.
1	Off	00	0	Cover down.
'	On	02	2	Cover up.
2	-	-	-	RESERVED
3	Off	00	0	Motor running (paper run)
3	On	08	8	Motor not running (paper stand still)
4	-	-	-	RESERVED
_	Off	00	0	FEED key not pressed
5	5 On 20 32		32	FEED key pressed
6	Off 00 0		0	PRINT key not pressed
0	On	40	64	PRINT key pressed
7	-	-	-	RESERVED

5° Byte = Recoverable Error Status

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	Print head temperature normal.
0	On	01	1	Print head overheated.
1	-	-	-	RESERVED
2	-	-	-	RESERVED
3	Off	00	0	Power supply voltage in range
3	On	08	8	Power supply voltage out of range
4	-	-	-	RESERVED
5	-	-	-	RESERVED
6	-	-	-	RESERVED
7	-	-	-	RESERVED

6° Byte = Unrecoverable Error Status

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	No autocutter error*
0	On	01	1	Autocutter error*
1	-	-	-	RESERVED
2	Off	00	0	No RAM error
2	On 04 4	RAM error		
3	Off	00	0	No EEPROM error
3	On	08	8	EEPROM error
4	-	-	-	RESERVED
5	-	-	-	RESERVED
6	-	-	-	RESERVED
7	-	-	-	RESERVED

Note(*): Only printer mudel with cutter

\$18				
[Name]	Cancel prin	nt data buffer.		
[Format]	ASCII	CAN		
	Hex	18		
	Decimal	24		
[Description]	Deletes all th	he print data in the current print buffer.		
[Notes] [Default] [Reference] [Example]	Deletes all the print data in the current print buffer. This command sets the print position at the beginning of the line.			

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\$1B \$20 n							
[Name]	Set characte	er right-si	de spac	cing			
[Format]	ASCII	ESC	SP	n			
	Hex	1B	20	n			
	Decimal	27	32	n			
[Range]	0 ≤ n ≤ 255						
[Description]	Sets spacing to right of character at [n x horizontal or vertical motion units].						
[Notes]	 The spacing to the right of the character for double width mode is double that used for normal mode. When the characters are enlarged, the spacing to the right of the character is m (2 or 4) times the normal value. The horizontal and vertical motion units are specified by the command \$1D \$50. Changing the horizontal or vertical motion does not affect the current right side spacing. The command \$1D \$50 can change the horizontal (and vertical) motion unit. However, the value cannot be less than the minimum horizontal spacing amount. In standard mode, the horizontal motion unit is used. The maximum right side spacing is 255/200 inches. 						
[Default] [Reference] [Example]	n = 0 \$1D \$50						

\$1B \$21 n							
[Name]	Sele	ct print	modes.				
[Format]	ASC	-	SC !	n			
[i official]							
	Hex		1B	21 I	n		
	Deci	mal 27	33	n			
[Range]	0 ≤ r	n ≤ 255					
[Description]	Solo	cts tha n	rint mod		a (see following tables):		
[Description]	Sele	cis ine p	mint mou	e using r	r (see following tables).		
	Bit	Off/On	Hex	Decimal	Function		
	0	Off	00	0	Character font A selected.		
		On	01	1	Character font B selected.		
	1	-	-	-	RESERVED.		
	2	-	-	-	RESERVED.		
	3	Off	00	0	Bold mode not selected.		
		On	08	8	Bold mode selected.		
	4	Off	00	0	Double height mode not selected.		
		On	10	16	Double height mode selected.		
	5	Off	00	0	Double width mode not selected.		
		On	20	32	Double width mode selected.		
	6	Off	00	0	Script mode not selected.		
		On	40	64	Script mode selected.		
	7	Off	00	0	Underline mode not selected.		
		On	80	128	Underline mode selected.		
 [Notes] The printer can underline all the characters, but it cannot underline the space set be commands \$09, \$1B \$24, \$1B \$5C and 90° clockwise rotated characters. When the characters on the same line are enlarged to different heights, they are enaligned at the baseline or topline (see \$1D \$7E). This command resets the left and right margin at the default value (see \$1D \$4C, \$1D \$57). The command \$1B \$45 can also turn on/off bold mode. However, the setting of the last received command is effective. 							
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The command \$1B \$2D can also turn on/off underline mode. However, the setting of the last received command is effective
The command \$1B \$34 can also turn on/off script mode. However, the setting of the

last received command is effective.The command \$1D \$21 can select the character size. However, the setting of the last

received command is effective.

[Default] n = 0 [Reference] **\$1B \$45, \$1B \$2D, \$1B \$34, \$1D \$21** [Example]

\$1B \$24 nL nH

[Name]	[Name] Set absolute print position						
	-	-		m			
[Format]	ASCII	ESC	\$	nL	nH		
	Hex	1B	24	nL	nH		
	Decimal	27	36	nL	nH		
[Range]	0 ≤ nL ≤ 255 0 ≤ nH ≤ 255						
[Description]	Sets the distance from the beginning of the line to the position in which the subsequent characters are to be printed.						
The distance from th	e beginning of th motion unit)] in		the print	position	is [(nL + nH \times 256) \times (vertical or horizontal		
[Notes]	 Settings outside the specified printable area are ignored. The vertical and horizontal motion units are specified by \$1D \$50. The command \$1D \$50 can change the horizontal (and vertical) motion unit. However, the value cannot be less than the minimum horizontal movement amount. In standard mode the horizontal motion unit (x) is used. If the setting is outside the printing area width, set absolute print position, but left or right margin is set at default value. 						
[Default]							
[Reference] [Example]	\$1B \$5C, \$1D	φ 3 0					

\$1B \$2A m nL nH d1...dk

[Name]	Select bit image mode.						
[Format]	ASCII	ESC	*	m	nL	nH	d1dk
	Hex		1B	2A	m	nL	nH d1dk
	Decimal	27	42	m	nL	nH	d1dk
[Range]	m = 0, 1, 32, 33						
	0 ≤ nL ≤ 255						
	$0 \le nH \le 1$	I					
	$0 \le d \le 25$	5					
[Description] Sele	cts a bit im	age-m	ode u	sing <i>m</i>	for the	numb	er of dots specified by <i>nL</i> and <i>nH</i> , as follows:

~	Mode	Vertical	direction	Horizontal direction (*1)		
m	Mode	N° dots	DPI	DPI	N° data (k)	
0	8 dots single density	8	67	100	nL + nH x 256	
1	8 dots double density	8	67	200	nL + nH x 256	
32	24 dots single density	24	200	100	(nL + nH x 256) x 3	
33	24 dots double density	24	200	200	(nL + nH x 256) x 3	

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[Notes]

• The commands *nL* and *nH* indicate the number of horizontal dots in the graphic image. The nL and nH indicate the number of dots of the bit image in the horizontal direction. The number of dots is calculated by nL + nH \times 256

• If the bit image data exceeds the number of dots to be printed on a line, the excess data is ignored.

• *d* indicates the bit image data. Set a corresponding bit to 1 to print dot or to 0 not to print dot.

• if the value of *m* is out of the specified range, *nL* and the data following are processed as normal data.

• If the width of the printing area set by the commands **\$1D \$4C** and **\$1D \$57** is less than the width required by the data sent with the command **\$1B \$2A**, the excess data is ignored.

• To print the bit image use commands \$0A, \$0D, \$1B \$4A or \$1B \$64.

• After printing a bit image, the printer returns to normal data processing mode.

• This command is not affected by bold, double-strike and underline (etc.) print modes, only by upside-down mode.

The relationship between the bit image and the dots to be printed is as follows:

8 dot image

24 dot image



[Default] [Reference] [Example]

\$1B \$2D n						
[Name]	Turn underline mode on/off.					
[Format]	ASCII	ESC	-	n		
	Hex	1B	2D	n		
	Decimal	27	45	n		
[Range]	0 ≤ n ≤ 2, 48	$\leq n \leq 50$				
[Description]	Turns underline mode on or off, based on the following values of n: $n = 0, 48$ Turns off underline mode					

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	n = 1.49 Turns on underline mode (1-dot thick) n = 2.50 Turns on underline mode (2-dot thick)
[Notes]	 The printer can underline all characters but cannot underline the space set by \$09 and right-side character spacing. The printer cannot underline 90° clockwise rotated characters and white/black inverted characters.
	 When underline mode is turned off by setting the value of n at 0 or 48, the following data is not underlined.
	• Underline mode can also be turned on or off by using \$1B \$21. Note, however, that the last command received is effective.
[Default]	n=0
[Reference] [Example]	\$1B \$21

\$1B \$30

[Name]	Select 1/8-ii	nch line s	pacing.
[Format]	ASCII	ESC	0
	Hex	1B	30
	Decimal	27	48
[Description]	Selects 1/8-i	nch line sp	bacing.
[Notes]			
[Default]			
[Reference]	\$1B \$32, \$1	B \$33	
[Example]			

\$1B \$32

[Name]	Set line spacing at 1/6 inch.					
[Format]	ASCII	ESC	2			
	Hex	1B	32			
	Decimal	27	50			
[Description]	Selects 1/6 inch line spacing.					
[Notes]						
[Default]						
[Reference]	\$1B \$30, \$1E	3 \$33				
[Example]						

\$1B \$33 n

[Name]	Set line spa	acing.					
[Format]	ASCII	ESC	3	n			
	Hex	1B	33	n			
	Decimal	27	51	n			
[Range]	$0 \le n \le 255$						
[Description]	Sets the line	Sets the line spacing at [$n \times$ (vertical or horizontal motion unit)] inches.					
[Notes]	the horizont • The comm However, th • In standar	• Horizontal and vertical motion units are specified by the command \$1D \$50 . Changing the horizontal or vertical motion unit does not affect the current line spacing. • The command \$1D \$50 can change the horizontal (and vertical) motion unit. However, the value cannot be less than the minimum vertical movement amount. • In standard mode, the vertical motion unit is used. • The maximum line spacing is $n = 255$ ($\cong 32$ mm).					
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[Default]	n = 32 (1/6 inch)
[Reference]	\$1B \$30, \$1B \$32, \$1D \$50
[Example]	

#4 D #0.4

Set / reset	t scrij	pt mo	de.									
ASCII	ESC	4	n									
Hex		1B	34	n								
Decimal 2	27	52	n									
$0 \le n \le 1, 4$	48 ≤ n	≤49										
Turns scrip	ot moo	de on o	or off,	base	d on the f	follow	ving va	alues of	n:			
n			Func	tion								
0, 48		Turns script mode off										
1, 49		Turn	s scrip	t mode	on							
When sci printed in r Script mo	ript mo norma ode ca	ode is I mode In alsc	turne e. be tu	d off b irned	oy setting on or off b	g the v	value					
n = 0												
\$1B \$21												
	ASCII Hex Decimal $0 \le n \le 1, 4$ Turns scrip n 0, 48 1, 49 • The print • When sc printed in r • Script molast comm n = 0	ASCII ESC Hex Decimal 27 $0 \le n \le 1, 48 \le n$ Turns script mod n 0, 48 1, 49 • The printer car • When script mod printed in normal • Script mode callast command res n = 0	ASCII ESC 4 Hex 1B Decimal 27 52 $0 \le n \le 1, 48 \le n \le 49$ Turns script mode on a n 0, 48 Turns 1, 49 Turns • The printer can print • When script mode is printed in normal mode • Script mode can also last command receiver n = 0	Hex1B34Decimal2752n $0 \le n \le 1$, $48 \le n \le 49$ Turns script mode on or off,Image: Turns script mode on or off,0, 48Turns script1, 49Turns script1, 49Turns script• The printer can print all ch• When script mode is turne printed in normal mode.• Script mode can also be tulast command received is endn = 0	ASCII ESC 4 n Hex 1B 34 n Decimal 27 52 n $0 \le n \le 1, 48 \le n \le 49$ Turns script mode on or off, based n Function 0, 48 Turns script mode 1, 49 Turns script mode • The printer can print all character • When script mode is turned off b printed in normal mode. • Script mode can also be turned of last command received is effective n = 0	ASCIIESC4nHex1B34nDecimal2752n $0 \le n \le 1, 48 \le n \le 49$ Turns script mode on or off, based on theImage: Turns script mode on or off, based on the0, 48Turns script mode off1, 49Turns script mode off1, 49Turns script mode on• The printer can print all characters in script mode is turned off by setting printed in normal mode.• Script mode can also be turned on or off last command received is effectiven = 0	ASCII ESC 4 n Hex 1B 34 n Decimal 27 52 n $0 \le n \le 1, 48 \le n \le 49$ Turns script mode on or off, based on the follow \boxed{n} Function 0, 48 Turns script mode off 1, 49 Turns script mode off 1, 49 Turns script mode on • The printer can print all characters in script m • When script mode is turned off by setting the printed in normal mode. • Script mode can also be turned on or off by us last command received is effective n = 0	ASCII ESC 4 n Hex 1B 34 n Decimal 27 52 n $0 \le n \le 1, 48 \le n \le 49$ Turns script mode on or off, based on the following vantures \boxed{n} Function 0, 48 Turns script mode off 1, 49 Turns script mode on • The printer can print all characters in script mode. • When script mode is turned off by setting the value of printed in normal mode. • Script mode can also be turned on or off by using \$1 last command received is effective n = 0	ASCII ESC 4 n Hex 1B 34 n Decimal 27 52 n $0 \le n \le 1, 48 \le n \le 49$ Turns script mode on or off, based on the following values of \boxed{n} Function 0, 48 Turns script mode off 1, 49 Turns script mode on • The printer can print all characters in script mode. • When script mode is turned off by setting the value <i>n</i> at 0 or printed in normal mode. • Script mode can also be turned on or off by using \$1B \$21. last command received is effective n = 0	ASCII ESC 4 n Hex 1B 34 n Decimal 27 52 n $0 \le n \le 1, 48 \le n \le 49$ Turns script mode on or off, based on the following values of n : \boxed{n} Function 0, 48 Turns script mode off 1, 49 Turns script mode on • The printer can print all characters in script mode. • When script mode is turned off by setting the value n at 0 or 48, the printed in normal mode. • Script mode can also be turned on or off by using \$1B \$21. Note, last command received is effective $n = 0$	ASCII ESC 4 n Hex 1B 34 n Decimal 27 52 n $0 \le n \le 1, 48 \le n \le 49$ Turns script mode on or off, based on the following values of n : $\boxed{n \qquad Function}$ $0, 48 \qquad Turns script mode off$ $1, 49 \qquad Turns script mode on$ • The printer can print all characters in script mode. • When script mode is turned off by setting the value n at 0 or 48, the data printed in normal mode. • Script mode can also be turned on or off by using \$1B \$21 . Note, hower last command received is effective $n = 0$	ASCII ESC 4 n Hex 1B 34 n Decimal 27 52 n $0 \le n \le 1, 48 \le n \le 49$ Turns script mode on or off, based on the following values of n : \boxed{n} Function 0, 48 Turns script mode off 1, 49 Turns script mode on • The printer can print all characters in script mode. • When script mode is turned off by setting the value n at 0 or 48, the data that for printed in normal mode. • Script mode can also be turned on or off by using \$1B \$21. Note, however, that last command received is effective n = 0

\$1B \$3D n					
[Name]	Select peripl	heral dev	vice		
[Format]	ASCII	ESC	=	n	
	Hex	1B	3D	n	
	Decimal	27	61	n	
[Range]	$0 \le n \le 255$				
[Description]	Selects the device to which the host computer sends data, using n as follows:				

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	Printer disabled.
0	On	01	1	Printer enabled.
1	-	-	-	RESERVED
2	-	-	-	RESERVED
3	-	-	-	RESERVED
4	-	-	-	RESERVED
5	-	-	-	RESERVED
6	-	-	-	RESERVED
7	-	-	-	RESERVED

[Notes]

• When the printer is disabled, it ignores all transmitted data until the printer is enabled by this command.

[Default] [Reference] [Example] n = 1

ESC @					
[Name]	Inizialize the printer.				
[Format]	ASCII ESC @				
	Hex 1B	40			
	Decimal 27 64				
[Description]	Clears the data in the p effect when the power			ets the printer n	node to the mode that was in
[Notes]	The data in the receptThe macro definitions			eared.	
[Default]					
[Reference]					
[Example]					
\$1B \$44 [n1nk] \$0	0				
[Name]	Set the horizontal tabs.				
[Format]	ASCII ESC	D	n1nk	NUL	
	Hex 1B	44	n1nk	00	
	Decimal 27	68	n1nk	0	
[Range]	1 ≤ n ≤ 255				
	$0 \le k \le 32$				
[Description]	Sets the horizontal tab: • <i>n</i> specifies the numbe line.		nns for se	tting a horizon	tal tab from the beginning of the
[Notes] [Default] [Reference] [Example]	the beginning of the lin character and double w normal characters. • This command cance • When setting $n = 8$, th • Up to 32 tab positions processed as normal of • Transmit [n] k in asc less than or equal to th following data is proces • This command cance • The previously specified width changes.	sition is s e. The wi vidth cha ls the pro- e print p can be s lata. ending o e preced ssed as r ls all hor ed horizo	stored as a dth of the racters ar evious holo osition is set ($k = 3$ rder and p ing value normal da izontal tab pontal tab p of 8 char	a value of [chain character inclu e set with a wide rizontal tab set moved to colur 2). Any data ex- put a code 0 NI [n] k -1, tab set ta. ta positions. ta positions do nor acters (column	racter width x <i>n</i>] measured from udes the space to the right of the dth which is double that of ting. nn 9 by sending HT .
\$1B \$45 n	True hald use do and				
[Name]	Turn bold mode on/o	_			
[Format]	ASCII ESC	E n			
	Hex 1B	45 n			
[Deces]	Decimal 27	69 n			
[Range] [Description]	$0 \le n \le 255$ Turns bold mode On of • When the LSB of <i>n</i> is		node is tu	rned off.	
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n = 0

- When the LSB of *n* is 1, bold mode is turned on.
- Only the LSB of *n* is effective.

• The command **\$1B \$21** also turns bold mode on and off. In any case, the last command received is enabled.

[Default] [Reference] [Example]

[Notes]

ESC G n

[Name]	Turn double s	strike n	node (Dn/Off.		
[Format]	ASCII	ESC	G	n		
Hex	Hex	1B	47	n		
Decimal	Decimal	27	71	n		
[Range]	$0 \le n \le 255$					
[Description]	 Turns double-strike mode On or Off. When the LSB of <i>n</i> is 0, double-strike mode is turned off. When the LSB of <i>n</i> is 1, double-strike mode is turned on. 					
[Notes]	Only the LSBThe printer or			ve. me in double-strike mode and bold mode.		
[Default]	n = 0					
[Reference] [Example]	ESC E					

[Name]	Print and fe	ed pape	r.			
[Format]	ASCII	ESC		n		
[]	Hex	1B	4A	n		
	Decimal	27	74	n		
[Range]	0 ≤ n ≤ 255					
[Description]	Prints the da unit) inches.	ta in the p	orint b	uffer and feed	s the paper [$n \times ($ vertical or horizontal motion	
[Notes]	•	g is over,	this c	ommand sets	the print starting position at the beginning of	
	 the line. The paper feed amount set by this command does not affect the values set by ESC or ESC 3. 					
	 The comma value cannot In standard 	and GS P be less t mode, th	can c han th e vert	hange the ver		
[Default]						
[Reference]	GS P					
[Example]						
ESC R n						
	Select the i	nternatio	onal c	haracter set.		
[Name]						
[Name] [Format]	ASCII	ESC	R	n		
		ESC 1B	R 52	n n		
	ASCII					
	ASCII Hex	1B	52	n		

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[Description]

Selects the international character set by setting n as in the following table :

				40		- 0							
	Hex	23	24	40	5B	5C	5D	5E	60	7B	7C	7D	7E
n	Character set												
0	U.S.A.	#	\$	@	[١]	^	`	{	Ι	}	~
1	France	#	\$	à	0	Ç	§	^	`	è	ù	è	"
2	Germany	#	\$	§	Ä	Ö	Ü	^	`	ä	ö	ü	β
3	Great Britain	£	\$	@	[١]	^	`	{		}	~
4	Denmark I	#	\$	@	Æ	Ø	Å	^	`	æ	¢	å	~
5	Sweden	#	Ø	È	Ä	Ö	Å	Ü	è	ä	ö	å	ü
6	Italy	#	\$	@	0	١	è	^	ù	à	ò	è	ì
7	Spain 1	Pt	\$	@	i	Ñ	ż	^	`	-	ñ	}	~
8	Japan	#	\$	@	[¥]	^	`	{		}	~
9	Norway	#	\odot	È	Æ	Ø	Å	Ü	è	æ	¢	å	ü
10	Denmark II	#	\$	È	Æ	Ø	Å	Ü	è	æ	¢	å	ü
11	Spain 2	#	\$	à	i	Ñ	ż	è	``	í	ñ	ö	ú
12	South America	#	\$	à	i	Ñ	ż	è	ù	í	ñ	ö	ú

[Notes] [Default] [Reference] [Example]

\$1B \$56 n										
[Name]	Set print mode rotated by 90°.									
[Format]	ASCII ESC V n									
	Hex 1B 56 n									
	Decimal 27 86 n									
[Range]	$0 \le n \le 1$ $48 \le n \le 49$									
[Description]	Enable / disable print mode rotated by 90°.n is used as follows :									
	n Function									
	0, 48 Turns off 90° rotation mode									
	0,49 Turns on 90° rotation mode									
[Notes]	• When underlined mode is turned on, the printer does not underline 90° rotated charac- ters. All the same it's possible select the underline mode.									
	• Double-width and double-height commands in 90° rotation mode enlarge characters in the opposite directions from double-height <i>and</i> double-width commands in normal mode.									
	This command is not available in Page mode.									
	• If this command is entered in Page mode, the printer all the same save the setting.									
Default]	n = 0									
[Reference]	\$1B \$21 , \$1B \$2D									
[Example]										

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TG1	12	6(1/2	46	0

\$1B \$5C nL nH

··- ···									
[Name]	Set relativ	ve pri	nt pos	sition.					
[Format]	ASCII	ESC	١	nL	nH				
	Hex		1B	5C	nL	nH			
	Decimal	27	92	nL	nH				
[Range]	0 ≤ nL ≤ 25 0 ≤ nH ≤ 25								
[Description]	Sets the print starting position based on the current position by using the horizontal or vertical motion unit.								
	This command sets the distance from the current position to [(nL+ nH \times 256) \times								
	(horizontal				/-				
[Notes]	 Any setting that exceeds the printable area is ignored. 								
	When the starting position is specified by n motion units to the right:								
	nL + nH \times 256 = n When the starting position is specified by n motion units to the left (negative c use the complement of 65536 :					fied by n motion units to the left (negative direction)			
	$nL + nH \times 2$	256 =	6553	6 – n					
	-			-		idth, left or right margin is set to default value.			
	• The horizontal and vertical motion units are specified by \$1D \$50 .								
	• The command \$1D \$50 can change the horizontal (and vertical) motion unit. However, the value cannot be less than the minimum horizontal movement amount.								
	• In standard mode, the horizontal motion unit is used.								
[Default]			, .						
[Reference]	\$1D \$24, \$	\$1D \$	50						
[Example]	↓· ↓ − 1 , ↓	φ							

\$1B \$61 n

[Name]	Select justifica	ation.					
[Format]	ASCII	ESC	а	n			
	Hex	1B	61	n			
	Decimal	27	97	n			
[Range]	$0 \le n \le 2, 48 \le r$	n ≤ 50					
[Description]	Aligns all the data in one line in the position specified. <i>n</i> selects the type of justification as follows:						
	nJustification0, 48Left justification1, 49Centring2, 50Right justification						
[Notes]	 This command is only enabled if input at the beginning of the line. The lines are justified within the specified printing area. The spaces set by the commands \$09, \$1B \$24 and \$1B \$5C remain justified as per the previously set mode. 						
[Default]	n = 0						
[Reference]							
[Example]	Left justification			Centering	F	Right justification	
	ABC ABCD ABCDE			ABC ABCD ABCDE		ABC ABCD ABCDE	
		- <i>i</i> =				TOADA	SO/2460
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\$1B \$63 \$35 n

[Name]	Enable o	or disa	ble th	e fron	t pane	l keys.	
[Format]	ASCII	ESC	с	5	n		
	Hex		1B	63	35	n	
	Decimal	27	99	53	n		
[Range]	0 ≤ n ≤ 255						
[Description]	 Enables or disables the front panel keys. When the LSB of n is 0, the panel keys are enabled. When the LSB of n is 1, the panel keys are disabled. 						
[Notes]	 Only the LSB of <i>n</i> is effective. In the printer, the panel buttons are the FEED and PRINT keys. When the panel keys are disabled, the keys can only operate when reset. 						
[Default]	n = 0						
[Reference] [Example]	See the '	'Panel	key" p	arame	ter fror	n Setup.	

\$1B \$64 n

[Name]	Print and feed	paper	n line	es.			
[Format]	ASCII	ESC	d	n			
	Hex		1B	64	n		
	Decimal	27	100	n			
[Range]	$0 \le n \le 255$						
[Description]	Prints the data in the print buffer and feeds the paper <i>n</i> lines.						
[Notes]	 This command sets the print starting position at the beginning of the line. This command does not affect the line spacing set by \$1B \$32 or \$1B \$33. The maximum paper feed amount is 200 lines. Even if a paper feed exceeding 200 lines is set, the printer only feeds the paper by 200 lines. 						
[Default] [Reference] [Example]	\$1B \$32, \$1B \$	533					

\$1B \$69

[Name]	Total cut.						
[Format]	ASCII	ESC	i				
	Hex	1B	69				
	Decimal	27	105				
[Description]	This command enables cutter operation; if there is no cutter, a disabling flag is set any subsequent cutting commands will be ignored.						
[Notes]	 The printer waits until all the paper movement commands have been completed before executing total cut 						
[Default]							
[Reference]							
[Example]							



\$1B \$74 n								
[Name]	Select the character code table.							
[Format]	ASCII ESC t n							
	Hex 1B 74 n							
	Decimal 27 116 n							
[Range]	n = 0, 19, 255							
[Description]	Selects a page <i>n</i> from the character code table, as follows:							
	n Page							
	0 (PC437 [U.S.A., Standard Europe])							
	19 19 (PC858 for Euro symbol at position 213)							
	255 Page space							
[Note]								
[Default]	n = 0 See character code table							
[Reference]								
[Example]	For printing Euro symbol (•), the command sequence is: \$1B, \$74, \$13, \$D5							
\$1B \$76								
[Name]	Transmit paper sensor status.							

[Name]	Transmit paper sensor status.					
[Format]	ASCII	ESC	V			
	Hex	1B	76			
	Decimal	27	118			
[Description]	Transmits the	current p	aper sensor status upon receiving this command.			
[Notes]	• This command is executed immediately, even when the reception buffer is full (Busy). The status to be transmitted is shown in the table below :					

Bit	Off/On	Hex	Decimal	Function
0,1	Off	00	0	Near paper end sensor Paper present
0,1	On	03	3	Near paper end sensor Near paper end
	Off	00	0	Paper end sensor Paper present
2,3	2,3 On 0C		12	Paper end sensor Paper end
4	Off	00	0	Fixed to Off
5	-	-	-	RESERVED
6	-	-	-	RESERVED
7	Off	00	0	Fixed to Off

[Default] [Reference] [Example]

\$10 \$04

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\$1B \$78 n

[Name]	Select speed / quality mode.							
[Format]	ASCII ESC x n							
	Hex 1B 78 n							
	Decimal 27 120 n							
[Range]	$0 \le n \le 2$							
[Description]	Selects speed / quality mode.							
	n Function							
	0 Draft mode (high speed)							
	1 Normal mode							
	2 High quality (low speed)							
[Notes]	• In high quality mode ($n=2$), the printer may be noisy.							
[Default]	<i>n</i> = 1							
[Reference]								
[Example]								

\$1B \$7B n

[Name]	Turn upside-down printing mode on/off.										
[Format]	ASCII	ESC	{	n							
	Hex	1B	7B	n							
	Decimal	27	123	n							
[Range]	$0 \le n \le 255$										
[Description]	 Turns upside-down printing mode on/off. When the LSB of <i>n</i> is 0, upside-down printing mode is turned off. When the LSB of <i>n</i> is 1, upside-down printing mode is turned on. 										
[Notes]	 Only the LSB of <i>n</i> is effective. This command is only enabled when input at the beginning of a line. In upside-down printing mode, the printer rotates the line to be printed by 180° and then prints it. 										
[Default]	n = 0										
[Reference]											
[Example]											
	Upside-down p	orinting	Off		Upside-down printing On						
	ABCDEF0 0123456	G		Î	ABCDEFG 0123456						
Paper outfeed direction											

\$1B \$FA n xH xL yH yL

[Name]	Print graphic bank (448 × 1170 dots).												
[Format]	ASCII	ESC	; { }	n	хH	хL	уH	уL					
	Hex		1B	FA	n	хH	хL	уH	уL				
	Decimal	27	250	n	хH	хL	уH	уL					

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[Dongo]	1 < n < 0												
[Range]	1≤n≤2												
-	$0 \le xH, xL, yH, yL \le 255$												
[Description]	Prints the graphics bank from flash or ram. <i>n</i> selects the bank as follows:												
	n Function												
	1 Print flash bank logo 1												
	2 Print flash bank logo 2												
	$xL + xH \times 256$ specifies the starting dot line (1 ÷ 1170). $yL + yH \times 256$ specifies the number of lines to print.												
[Notes]	• If $(xL + (xH \times 256)) > 1170$ the printer does not execute the command. • If $(xL + (xH \times 256) + yL + (yH \times 256)) > 1170$ the printer only prints 1170- $xL + (xH \times 256) + yL + (xH \times 256) > 1170$ the printer only prints 1170- $xL + (xH \times 256) + yL + (xH \times 256) > 1170$ the printer only prints 1170- $xL + (xH \times 256) + yL + (xH \times 256) > 1170$ the printer only prints 1170- $xL + (xH \times 256) + yL + (xH \times 256) > 1170$ the printer only prints 1170- $xL + (xH \times 256) + yL + (xH \times 256) > 1170$ the printer only prints 1170- $xL + (xH \times 256) + yL + (xH \times 256) > 1170$ the printer only prints 1170- $xL + (xH \times 256) + yL + (xH \times 256) > 1170$ the printer only prints 1170- $xL + (xH \times 256) + yL + (xH \times 256) > 1170$ the printer only prints 1170- $xL + (xH \times 256) + yL + (xH \times 256) > 1170$ the printer only prints 1170- $xL + (xH \times 256) + yL + (xH \times 256) > 1170$ the printer only prints 1170- $xL + (xH \times 256) + yL + (xH \times 256) > 1170$ the printer only prints 1170- $xL + (xH \times 256) > 1170$ the printer only prints 1170- $xL + (xH \times 256) + yL + (xH \times 256) > 1170$ the printer only prints 1170- $xL + (xH \times 256) + yL + (xH \times 256) > 1170$ the printer only printe	×											
	256) +1 dotlines.												
[Default]													
[Reference]													
[Example]	To print logo 1 from flash bank dotline 100 to dotline 299, send: \$18 \$EA \$01 \$00 \$64 \$00 \$CZ												
[=xample]	\$1B \$FA \$01 \$00 \$64 \$00 \$C7												
\$1B \$FF m nL nH	\$1B \$FA \$01 \$00 \$64 \$00 \$C7	1											
\$1B \$FF m nL nH	\$1B \$FA \$01 \$00 \$64 \$00 \$C7 0 dn												
\$1B \$FF m nL nH [Name]	\$1B \$FA \$01 \$00 \$C7 0 dn	1											
\$1B \$FF m nL nH	\$1B \$FA \$01 \$00 \$64 \$00 \$C7 0 dn Receive and store logos in flash.	1											
\$1B \$FF m nL nH [Name]	\$1B \$FA \$01 \$00 \$64 \$00 \$C7 0 dn Receive and store logos in flash. ASCII ESC {} m nL nH d0 dn	1											
\$1B \$FF m nL nH [Name] [Format]	\$1B \$FA \$01 \$64 \$00 \$C7 0 dn												
\$1B \$FF m nL nH [Name]	\$1B \$FA \$01 \$64 \$00 \$C7 0 dn	1											
\$1B \$FF m nL nH [Name] [Format] [Range]	\$1B \$FA \$01 \$00 \$64 \$00 \$C7 0 dn Receive and store logos in flash. ASCII ESC {} m nL nH d0 dn Hex 1B FF m nL nH d0 dn Decimal 27 255 m nL nH d0 dn $0 \le nL, nH \le 255$ $1 \le m \le 2$ $0 \le d0, dn \le 255$												
\$1B \$FF m nL nH [Name] [Format] [Range]	\$1B \$FA \$01 \$00 \$64 \$00 \$C7 0 dn Receive and store logos in flash. ASCII ESC {} m nL nH d0 dn Hex 1B FF m nL nH d0 dn Decimal 27 255 m nL nH d0 dn $0 \le nL, nH \le 255$ $1 \le m \le 2$ $0 \le d0, dn \le 255$ • Received $[nL + (nH \times 256)] \times 2$ bytes and store in the flash. • If $[nL + (nH \times 256)]$ exceeds 32768, the data following will be processed as normal												
\$1B \$FF m nL nH [Name] [Format] [Range]	\$1B \$FA \$01 \$00 \$64 \$00 \$C7 0 dn Receive and store logos in flash. ASCII ESC {} m nL nH d0 dn Hex 1B FF m nL nH d0 dn Decimal 27 255 m nL nH d0 dn $0 \le nL, nH \le 255$ $1 \le m \le 2$ $0 \le d0, dn \le 255$ • Received [$nL + (nH \times 256)$] x 2 bytes and store in the flash. • If [$nL + (nH \times 256)$] exceeds 32768, the data following will be processed as normal data.												
\$1B \$FF m nL nH [Name] [Format] [Range]	\$1B \$FA \$01 \$00 \$64 \$00 \$C7 0 dn Receive and store logos in flash. ASCII ESC {} m nL nH d0 dn Hex 1B FF m nL nH d0 dn Decimal 27 255 m nL nH d0 dn $0 \le nL, nH \le 255$ $1 \le m \le 2$ $0 \le d0, dn \le 255$ • Received $[nL + (nH \times 256)] \times 2$ bytes and store in the flash. • If $[nL + (nH \times 256)]$ exceeds 32768, the data following will be processed as normal data. • Saved the graphics bank from flash. <i>m</i> selects the bank as follows:												

• d0, dn = value of bit stream image

[Default]

[Reference] [Example]

To store the logotype indicated below ,into flash bank 2, necessity execute the follows operation

1)Define the image dimensions.

The width of image is 448 horizontal pixel ; the height maximun of image is 1170 vertical pixel.

2) Calculate the number of bytes to send as (height pix*width pix)/16.

Bytes number in example is 448 x 1170/16=32760 in exadecimal resulting = 7FF8.

3) Bit stream image conversion.

In the following figure is reproduced the logotype enlargement in the zone indicated by the arrow to define d0...dn





In this example; d0=FF; d1=03; d2=FC; d3=0F



Then send this command to the printer

0x1B	0xFF	0x02	0xF8	0x7F	0xFF	0 x 03	0xFC	0x0F
		N. logo	Dimer	nsion				

\$1C \$C0 \$34												
[Name]	Total cut and automatic paper moving back.											
[Format]	ASCII	FS	{ }	4								
	Hex	1C	C0	34								
	Decimal	28	192	52								
[Description]		ck; if there	e is no cutter, a		ecutes a total cut and automatic paper g is set any subsequent cutting							
[Notes]	 The print executing 		ntil all the pap	er movement o	commands have been completed before							
[Default] [Reference] [Example]												

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[Name]		Select	t character	r size.						
[Format]		ASCII	G	S	!	n				
		Hex	1	D	21	n				
		Decim	al 2	9	33	n				
[Range]		0 ≤ n ≤	255							
[Description]			s character	heigh	nt and w	idth.	as fo	llows:		
		• Bits () to 3 : chai	racter	height	selec	ction (see table		
			4 to 7 : chai			elect			,	
	Table	1: Charac	ter width se	electio	n		Tabl	e2: Chara	cter height selection	
									· · · · · · · · · · · · · · · · · · ·	
	Hex	Decimal		Width			Hex	Decimal	Height	
	00	0	1 (normal)	-)		-	00	0	1 (normal)	
	10 20	16 32	2 (double width	,		-	01 02	1	2 (double height) 3 (quadruple height)	
	30	48	3 (quadruple w			+	02	3		
	40	64				-	03	4		
	50	80					05	5		
	60	96					06	6		
	70	112				-	07	7		
[Default] [Reference] [Example]		• The o	of the last	ize ca	n also b	be se		•	ommand \$1B \$21 . Howe∿	ver,the
\$1D \$3A										
[Name]		Start /	end macr	o defi	nition					
[Format]		ASCII		S usin						
[i official]		Hex		D	ЗА					
		Decim		9	58					
[Description]			or ends ma).				
[Notes]		• Macr • Whei macro	o definition	starts nand \$ and c	when t 61D \$5E lears al	this c E is re Il defi	eceive nition	ed during s.	eived during normal opera macro definition, the printe	

receiving **\$1D \$3A**, the printer remains in the macro undefined state.

• The contents of the macro can be defined up to 1024 bytes. If the macro definition exceeds 1024 bytes, the excess data is not not stored.

[Default] [Reference] \$1 [Example]

\$1D \$5E

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\$1D \$42 n											
[Name]	Turn white /	Turn white / black reverse printing mode on/off.									
[Format]	ASCII	GS	В	n							
	Hex	1D	42	n							
	Decimal	29	66	n							
[Range]	$0 \le n \le 255$										
[Description]	 When the L 	 Turns white/black reverse printing mode on or off. When the LSB of <i>n</i> is 0, white/black reverse printing is turned off. When the LSB of <i>n</i> is 1, white/black reverse printing mode is turned on. 									
[Notes]	 This common characters a This common White/black 	and is av and does nd spacir and does areverse	ailable for not affe ng skippe not affe mode ha	or built-in characters and user-defined characters. ect bit image, downloaded bit image, bar codes, HRI ed by \$09, \$1B \$24 and \$1B \$5C . ect the space between lines. as a higher priority than underline mode. Even if underline not cancelled) when white/black reverse mode is							
[Default] [Reference] [Example]	n = 0										

\$1D \$43 \$30 n m

[Name]	Select	counter print	mode.							
[Format]	ASCII	GS	С	0	n	m				
	Hex	1D	43	30	n	m				
	Decima	l 29	67	48	n	m				
[Range]	0 ≤ n ≤ 5 m = 0, 1	5 I, 2, 48, 49, 50								
[Description]	Selects a print mode for the serial number counter. • <i>n</i> specifies the number of digits to be printed as follows: when $n = 0$, the printer prints the actual digits indicated by the number value. when $n = 1$ to 5, this command sets the number of digits to be printed. • m specifies the printing position within the entire range of printed digits, as follows:									
	m	Printing position	on Pro	cessing o	f digits le	ss than those spec	cified			
	0, 48	Align right		Ac						
	1, 49	Align right								
	2, 50	Align left		Ad	ds space					
[Notes] [Default] [Reference] [Example]	• If <i>n</i> = 0 <i>n</i> = 0, <i>n</i> \$1D \$4 n = 3,m), <i>m</i> does not h n = 0 3 \$31, \$1D \$4 ;	ave any	meanin D \$43 \$	g. 3 B, \$1 1		mode is not changed.			



\$1D \$43 \$31 aL aH bL bH n r

[Name]	Select cour	nt mode (A) .											
[Format]	ASCII	GS	С	1	aL	аH	bL	bH	n	r				
	Hex	1D	43	31	aL	аH	bL	bH	n	r				
	Decimal	29	67	49	aL	аH	bL	bH	n	r				
[Range]	0≤aL, aH≤	255												
	$0 \le bL, bH \le$	$0 \le bL$, $bH \le 255$												
	$0 \le n, r \le 25$	0 ≤ n, r ≤ 255												
[Description]	• <i>aL</i> , <i>aH</i> o <i>b</i> • <i>n</i> specify tl	 Selects a count mode for the serial number counter. <i>aL</i>, <i>aH</i> o <i>bL</i>, <i>bH</i> specify the counter range. <i>n</i> specify the stepping amount when counting up or down. <i>r</i> indicates the repetition number when the counter value is fixed. 												
[Notes]	• Count-up r $[aL + (aH \times A + (aH $	256)] < [b, (n mode is 256)] > [b, tops when 256)] = [b, count-up n m value is t is resum count-dow	L + (bH) s specifie L + (bH) n: L + (bH) node, the [bL + (b ed with the n mode,	× 256)] a ed when × 256)] a × 256)] c e minimu $H \times 256$ the minimu the max	: and $n \neq 0$ or $n = 0$ o um value)]. If cour mum valu kimum va	and $r \neq 0$ or $r = 0$ of the conting up rule. alue of th	0 ounter is reaches a e counte	a value e er is [a L +	exceed - (a $H imes$	ing the 256)]				
	minimum, itWhen the number spe	is resume command	ed with the theorem is exected as a constant of the second s	ne maxir uted, the	num valu	ue.	at indica	tes the re						
[Default]	minimum, it • When the	is resume command cified by <i>r</i>	ed with the second s second second s second second s second second sec	ne maxir uted, the ed.	num valu internal	ue. count tha	at indicat	tes the re						
[Default] [Reference]	minimum, it • When the number spe	is resume command cified by <i>r</i> = 0, bL = 2	ed with the second s second second s second second s second second secon	ne maxir uted, the ed. = 255, n =	num valu internal = 1, r = 1	ue. count tha	at indica	tes the re						

\$1D \$43 \$32 nL nH

[Name]	Set cour	nter.							
[Format]	ASCII	GS	С	2	nL	nH			
	Hex		1D	43	32	nL	nH		
	Decimal	29	67	50	nL	nH			
[Range]	0 ≤ nL, n	H≤25	5						
[Description]	Sets the serial number counter value. • nL and nH determine the value of the serial number counter set by [nL + ($nH \times 256$)].								
[Notes]	 In count-up mode, if the counter value specified by this command goes out of the counter operation range specified by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the minimum value by \$1D \$63. In count-down mode, if the counter value specified by this command goes out of the counter operation range specified by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the maximum value by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the maximum value by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the maximum value by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the maximum value by \$1D \$63. 								
[Default]	nL = 1, n	H = 0							
[Reference]	\$1D \$43	\$30, \$	1D \$4	3 \$31 ,	\$1D \$	43 \$3E	3, \$1D \$63		
[Example]									

[Name]	Select cou	nt mod	e.												
[Format]	ASCII	GS	С	;	sa	;	sb	;	sn	;	sr	;	sc ;		
	Hex	1D	43	3B	sa	3B	sb	3B	sn	3B	sr	3B	sc 3B		
	Decimal	29	67	59	sa	59	sb	59	sn	59	sr	59	sc 59		
[Range]	$0 \le sa, sb, sc \le 65535$														
	$0 \le sn, sr \le$	255													
These values are	e all character str	ngs.													
[Description]	counter.														
	ʻ9'.	 sa, sb, sn, sr and sc are all displayed in ASCII characters using the codes from 'O' to '9'. sa and sb specify the counter range. 													
	• sn indicate	•			-		nting u	ip or d	lown.						
	 sr indicate 					vith the	e coun	ter va	lue fix	ed.					
	• sc indicates the counter value.														
[Notes]		• Count-up mode is specified when: sa < sb and sn $\neq 0$ and sr $\neq 0$													
	sa < sb and sn ≠ 0 and sr ≠ 0 • Count-down mode is specified when:														
	• Count-down mode is specified when: $sa > sb$ and $sn \neq 0$ and $sr \neq 0$														
	Counting stops when:														
	sa = sb or s							•							
	 In setting sb. If counti 														
		- ·					-								
		minimum value. If the counter value set by sc is outside the counter operation range, the counter value is forced to convert to the minimum value by executing \$1D \$63 .													
	-	 In setting count-down mode, the maximum value of the counter is sa and the 													
		minimum value is sb. If counting down reaches a value less than the minimum, it is													
	resumed with the maximum value. If the counter value set by sc is outside the counter														
	operation range, the counter value is forced to convert to the maximum value by executing \$1D \$63 .														
		• Parameters sa to sc can be omitted. If omitted, these values remain unchanged.													
		 Parameters sa to sc can be offitted. If offitted, these values remain unchanged. Parameters sa to sc must not contain characters, with the exception of those from '0' 													
	to '9'.														
[Default]	sa = 1, sb =														
[Reference]	\$1D \$43 \$3	0, \$1D \$	\$43 \$3	31, \$1	D \$43	\$32, 9	\$1D \$	63							
[Example]															
\$1D \$48 n															
[Name]	Select print	ng posi	tion of	Huma	an Rea	adable	e Inter	pretat	tion (H	HRI)					

[Name]	Select pr	inting	positio	n of Hu	iman Read	able Inte	erpretation	(HRI)			
[Format]	ASCII	GS	Н	n							
	Hex		1D	48	n						
	Decimal	29	72	n							
[Range]	$0 \le n \le 3, 48 \le n \le 51$										
[Description]	Selects the printing position of HRI characters when printing bar code. <i>n</i> selects the printing position as follows:										
	n			Func	tion						
	0, 48	Not prin	ted								
	1, 49	Above t	he bar co	de.							
	2, 50	Below th	ne bar co	de.							
	3, 51	Both ab	ove and	below the	bar code.						
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[Notes]	• HRI characters are printed using the font specified by GS f.
[Default]	n = 0
[Reference]	\$1D \$66, \$1D \$6B
[Example]	

\$1	D	\$49	n	

[Name]	Transm	nit printer ID.			
[Format]	ASCII	GS	Ι	n	
	Hex	1D	49	n	
	Decima	l 29	73	n	
[Range]	1 ≤ n ≤ 3	3, 49 ≤ n ≤ 51			
[Description]	Transmi	its the printer	ID sp	ecified by n as follows:	
	n	Printer ID		Specification	
	1,49 F	Printer model ID		\$6D (TG2460)	
	2, 50	Type ID		Refer to table below	
	3, 51 F	ROM version ID		Depends on ROM version (4 char)	

n = 2, Identification Function

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	2-byte character codes not supported
4	Off	00	0	Autocutter not supplied
	On	02	2	Autocutter supplied
0	Off	00	0	Non-label thermal paper
2	On	04	4	Label thermal paper
3	-	-	-	RESERVED
4	Off	00	0	Fixed to Off
5	-	-	-	RESERVED
6	-	-	-	RESERVED
7	Off	00	0	Fixed to Off

[Notes]

• When the DTR/DSR control is selected, the printer only transmits 1 byte (Printer identification) after it has been given confirmation that the host is ready to receive data. If the host is not ready, the printer waits until it is.

When the XON/XOFF control is selected, the printer only transmits 1 byte (Printer identification) if it has not been given confirmation that the host is ready to receive data.
This command is carried out once the data has been processed in the reception buffer. There may therefore be a delay between the moment in which the command is received and that in which the data is transmitted, depending on the status of the reception buffer

.[Default] [Reference] [Example]

\$1D \$4C nL nH

[Name]	Set left mar	rgin.				
[Format]	ASCII	GS	L	nL	nH	
	Hex	1D	4C	nL	nH	
	Decimal	29	76	nL	nH	
[Range]	0 ≤ nL, nH ≤	255				
[Description]		Sets the left margin. • The left margin is set at $[(nL + nH \times 256) \times (horizontal motion unit)]$ inches. Printable area				
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	◆
[Nister]	Left margin Width of print area
[Notes]	 This command is enabled only at the beginning of the line. If the setting exceeds the printable area, the maximum value of the printable area is
	used.
	• If left margin + printing area width is greater than printable area, then printing area
	 width is set at maximum value. The horizontal and vertical motion units are specified by \$1D \$50. Changing the
	horizontal or vertical motion unit does not affect the current left margin.
	• The command \$1D \$50 can change the horizontal (and vertical) motion unit.
	 However, the value cannot be less than the minimum horizontal movement amount and it must be expressed in even units of the minimum horizontal movement amount.
[Default]	If Font A: $nL = nH = 0$
	If Font B : nL=14
[Reference]	\$1D \$50, \$1D \$57
[Example]	
\$1D \$50 x y	
	Cat having the long vertical motion units
[Name]	Set horizontal and vertical motion units. ASCII GS P x y
[Format]	
	Hex 1D 50 x y Decimal 29 80 x y
[Range]	x = 100,200
[rungo]	y = 100, 200
[Description]	Sets the horizontal and vertical motion units at 1/x inches and 1/y inches, respectively.
	When x is set at 0, the default setting value is used.
[Notoc]	When <i>y</i> is set at 0, the default setting value is used.
[Notes]	 The horizontal direction is perpendicular to the paper feed direction. In standard mode, the following commands use x or y, irrespective of character
	rotation (upside down or 90° clockwise rotation):
	O Commands using x : \$1B \$20, \$1B \$24, \$1B \$5C, \$1D \$4C, \$1D \$57.
	 Commands using y : \$1B \$33, \$1B \$4A. This command does not affect the previously specified values.
	• The calculated result from combining this command with others is truncated to the
	minimum value of the mechanical pitch or an exact multiple of that value.
[Default]	x = 200, y = 200
[Reference]	\$1B \$20, \$1B 24, \$1B \$5C, \$1B \$33, \$1B \$4A, \$1D \$4C, \$1D \$57
[Example]	
\$1D \$57 nL nH	
[Name]	Set printing area width.
[Format]	ASCII GS W nL nH
	Hex 1D 57 nL nH
[Panga]	Decimal 29 87 nL nH
[Range] [Description]	$0 \le nL$, $nH \le 255$ Sets the printing area width to the area specified by <i>nL</i> and <i>nH</i> .
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[Name]	Print counter.					
[Format]	ASCII GS c					
[i official]	Hex 1D 63					
	Decimal 29 99					
[Description]	Sets the serial counter value in the print buffer and increments or decrements the count value.					
[Notes]	 After setting the current counter value in the print buffer as print data (a character string), the printer counts up or down based on the count mode set. The counter value in the print buffer is printed when the printer receives a print command or is in the buffer full state. The counter print mode is set by \$1D \$43 \$30. The counter mode is set by \$1D \$43 \$31 or \$1D \$43 \$3B. In count-up mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the minimum value. In count-down mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the minimum value. 					
[Default]						
[Reference]	\$1D \$43 \$30, \$1D \$43 \$31, \$1D \$43 \$32, \$1D \$43 \$3B					
[Example]						
\$1D \$66 n						
[Name]	Select font for HRI characters.					
[Format]	ASCII GS f n					
	Hex 1D 66 n					
	Decimal 29 102 n					
[Range]	n = 0, 1, 48, 49					
[Description]	Selects a font for the HRI characters used when printing a bar code. <i>n</i> selects a font from the following table:					
	n Font					
	0, 48 Font A.					
	1, 49 Font B.					
[Notes]	The HRI characters are printed at the position specified by the command \$1D \$48.					
[Default]	n = 0					
[Reference]	\$1D \$48, \$1D \$6B					
[Example]						
\$1D \$68 n						
[Name]	Set bar code height					
[Format]	ASCII GS h n					
-	Hex 1D 68 n					
	Decimal 29 104 n					
[Range]	1 ≤ n ≤ 255					
[Description]	Sets the height of the bar code. <i>n</i> specifies the number of dots in the vertical direction.					
[Notes]						
[Defoult]	- 06 (12 mm)					

[Default] n = 96 (12 mm)

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[Reference]	\$1D \$6B
[Example]	

• \$1D \$6B m [d1	.dk] \$00 ② \$1	D \$6B n	n n [d1	.dn]	
[Name]	Print bar cod	е.			
[Format]	① ASCII	GS	k	m	NUL
	Hex	1D	6B	m	00
	Decimal	29	107	m	0
	② ASCII	GS	k	m	n
	Hex	1D	6B	m	n
	Decimal	29	107	m	n
[Range]	-	m ≤ 6 ≨ m ≤ 73			
[Description]	Selects a bar of follows:	code sys	tem and	prints th	e bar code. <i>m</i> selects a bar code system as

, 32, 36, 37, 7
68, 36, 43, 3

	65	UPC-A	11 ≤ n ≤ 12	$48 \le d \le 57$
	66	UPC-E	$11 \le n \le 12$	$48 \le d \le 57$
	67	EAN13 (JAN)	$12 \le n \le 13$	$48 \le d \le 57$
	68	EAN8 (JAN)	$7 \le n \le 8$	$48 \le d \le 57$
	69	CODE39	1 ≤ n ≤ 255	$\begin{array}{l} 48 \leq d \leq 57,65 \leq d \leq 90,32,36,37,\\ 43,45,46,47 \end{array}$
0	70	ITF	$1 \le n \le 255$	$48 \le d \le 57$
	71	CODABAR	1 ≤ n ≤ 255	$\begin{array}{l} 48 \leq d \leq 57,65 \leq d1 \leq 68,36,43,\\ 45,46,47,58 \end{array}$
	72	CODE93	1 ≤ n ≤ 255	$0 \le d \le 127$
	73	CODE128	$2 \le n \le 255$	$0 \le d \le 127$
	90	CODE32	$8 \le n \le 9$	48 ≤ d ≤ 57

[Notes]

If *d* is outside the specified range, the printer prints the following message: "BAR CODE GENERATOR NON OK !" and processes the following data as normal data.
If the horizontal size exceeds the printing area, the printer only feeds the paper.

• This command feeds as much paper as is required to print the bar code, irrespective of the line spacing specified by **\$1B \$32** or **\$1B \$33**.

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	 After printing the bar code, this command sets the print position at the beginning of the line.
	 This command is not affected by print modes (bold, double strike, underline or character size), with the exception of upside-down mode and justification.
[Note for ①]	 This command ends with a \$00 code. When the bar code used is UPC-A or UPC-E, the printer prints the bar code data after receiving 11 (without check digit) or 12 (with check digit) byte bar code data. When the bar code system used is EAN13, the printer prints the bar code after receiving 12 (without check digit) or 13 (with check digit) byte bar code data. When the system used is EAN8, the printer prints the bar code after receiving 7 (without check digit) or 8 (with check digit) byte bar code data. The number of data for ITF bar code must be even. When an odd number of data is input, the printer ignores the last received data.
[Note for 2]	• If <i>n</i> is outside the specified range, the printer stops command processing and process the following data as normal data.
When to use	
CODE93:	 The printer prints an HRI character (o) as a start character at the beginning of the HRI character string.
	 The printer prints an HRI character (o) as a stop character at the end of the HRI character string.
	• The printer prints an HRI character (n) as a control character (\$00 to \$1F and \$7F).
When to use	
CODE128:	 When using the CODE128 in this printer, take the following points into account for data transmission:
	• The top of the bar code data string must be a code set selection character (CODE A, CODE B or CODE C) which selects the first code set.
	 Special characters are defined by combining two characters ""," and one character

• Special characters are defined by combining two characters "{" and one character. The ASCII character "{" is defined by transmitting "{" twice consecutively.

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

[Default] [Reference] [Example]

\$1D \$48, \$1D \$66, \$1D \$68, \$1D \$77

\$1D \$72 n Transmit status. [Name] ASCII GS [Format] r n 1D 72 Hex n 29 114 Decimal n n = 1, n = 49[Range] TG1260/2460 **CUST@M** 2-30

[Description]				ified by n as	
	n 1, 49	Funct Trans		ar sonsor st	atus (same as \$1B \$76).
	1, 40	Trans	inito pape		
	Bit	Off/On	Hex	Decimal	Function
	0,1	-	-	-	RESERVED.
	0,1	-	-	-	RESERVED.
	2,3	Off On	00 0C	0	Paper end sensor: paper present Paper end sensor: paper not present
	4	Off	00	0	Fixed to Off
	5	-	-	-	RESERVED.
	6	-	-	-	RESERVED.
	7	Off	00	0	Fixed to Off
Notes]	may th	nerefore b	e a time la	ag between	e data is processed in the reception buffer. Ther receiving the command and transmitting the reception buffer.
Default] Reference] Example]	\$10 \$0	04, \$1B \$7	75, \$1B \$7	76	
GS w n					
Name]	Set ba	ar code w	vidth.		
Format]	ASCII	GS	w n		
	Hex	1D	77 n		
	Decim	nal 29	119 n		
Deneal			113 11		
Range]	2 ≤ n ≤				
December the set	0	ets the hor	izontal siz		
Description	Se			ze of the bal	code. n specifies the bar code width as follows
Description	56	n		ule width (mm)	code. <i>n</i> specifies the bar code width as follows
Descriptionj	56				code. <i>n</i> specifies the bar code width as follows
Description		n		ule width (mm)	code. <i>n</i> specifies the bar code width as follows
Description		n2		ule width (mm) 0.25	code. <i>n</i> specifies the bar code width as follows
Descriptionj		n23		ule width (mm) 0.25 0.375	code. <i>n</i> specifies the bar code width as follows
Description		n 2 3 4		ule width (mm) 0.25 0.375 0.5	r code. <i>n</i> specifies the bar code width as follows
		n 2 3 4 5 5		ule width (mm) 0.25 0.375 0.5 0.625	code. <i>n</i> specifies the bar code width as follows
[Description]		n 2 3 4 5 5		ule width (mm) 0.25 0.375 0.5 0.625	code. <i>n</i> specifies the bar code width as follows
Notes] Default]	n = 3	n 2 3 3 4 5 6 1		ule width (mm) 0.25 0.375 0.5 0.625	r code. <i>n</i> specifies the bar code width as follows
Notes] Default] Reference]		n 2 3 3 4 5 6 1		ule width (mm) 0.25 0.375 0.5 0.625	r code. <i>n</i> specifies the bar code width as follows
[Notes] [Default] [Reference]	n = 3	n 2 3 3 4 5 6 1		ule width (mm) 0.25 0.375 0.5 0.625	code. <i>n</i> specifies the bar code width as follows
Notes] Default] Reference]	n = 3	n 2 3 3 4 5 6 1		ule width (mm) 0.25 0.375 0.5 0.625	code. <i>n</i> specifies the bar code width as follows
Notes] Default] [Reference] [Example] \$1D \$7E n	n = 3 \$1D \$	n	Mod	ule width (mm) 0.25 0.375 0.5 0.625 0.75	code. <i>n</i> specifies the bar code width as follows
Notes] Default] [Reference] [Example] \$1D \$7E n	n = 3 \$1D \$	n	Mod	ule width (mm) 0.25 0.375 0.5 0.625 0.75	r code. <i>n</i> specifies the bar code width as follows
	n = 3 \$1D \$	n	Modi	ule width (mm) 0.25 0.375 0.5 0.625 0.75	r code. <i>n</i> specifies the bar code width as follows
[Notes] [Default] [Reference] [Example] \$1D \$7E n [Name]	n = 3 \$1D \$	n	Modu	ule width (mm) 0.25 0.375 0.5 0.625 0.75	code. <i>n</i> specifies the bar code width as follows
Notes] Default] Reference] Example] \$1D \$7E n Name]	n = 3 \$1D \$ Set su ASCII	n	Modu	ule width (mm) 0.25 0.375 0.5 0.625 0.75 0.75	code. <i>n</i> specifies the bar code width as follows

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[Range]	n = 0, 1, 48,	49								
[Description]	Sets supers	•	•		positio	on.				
	<i>n</i> specifies t	ne positio	n as follo	WS:						
	n	Function								
	0, 48	Subscript character position.		on.						
	1, 49	Sup	erscript cha	racter posit	ion.					
[Notes]	 This command is executed if there are characters with different heights on the sar line. 					the same				
[Default]	n = 0									
[Reference]	\$1B \$21, \$1	D \$21								
\$1D \$7C n										
[Name]	Set printing	j density.								
[Format]	ASCII	GS	{ }	n						
	Hex	1D	7C	n						
	Decimal	29	124	n						
[Range]	0 ≤ n ≤ 4, 48	≤ n ≤ 52								
[Notes]	• The printin turned off.	g density i	s cleare	d at defa	ault valu	ue whe	n the pi	rinter is	reset or t	he power is
[Default]	n = 2									
[Description]	Sets the prir	ting densi	ity. <i>n</i> spe	cifies the	e printii	ng den	sity as f	follows:		
	n		Printing d	ensity						
	0, 48		Very lig	ght						
	1, 49		Light	t						
	2, 50	Normal								
	3, 51		Dark	č.						
	4, 52		Very da	ark						
[Reference]										

[Reference] [Example]



2.1.2 Custom emulation

The following table lists all the commands for the management of the Custom emulation. The commands can be transmitted to the printer at any moment, but they will only be carried out when the commands previously transmitted have been carried out. There are no priority commands; all commands are carried out when the circular buffer is free to do so.
COMMAND TABLE
(Tab.2.2)

Com. HEX	Com. ASCII	Description
\$00	NUL	Printing with small characters
\$01	SOH	Printing with double width characters
\$02	STX	Printing in double height characters
\$03	ETX	Printing with expanded characters
\$04	EOT	Restore printing with small characters
\$0A	LF	Print and line feed
n \$0B	n VT	Vertical tabs
\$0D	CR	Print and feed
\$0F	SI	Ignore \$0D
\$11	DC1	DP 24/40 graphic mode
\$1B \$21 n	ESC ! n	Set print mode
\$1B \$24 nL nH	ESC \$ nL nH	Set absolute position
\$1B \$2A m nL nH d1dk	ESC * m nL nH d1dk	Set bit image mode
\$1B \$40	ESC @	Initialize printer
\$1B \$42	ESC B	Select FONT 1
\$1B \$43	ESC C	Total cut
\$1B \$4B \$0D	ESC K [d] CR	Set characters to transmit on pressing "Print" key
dH dL \$1B \$47	dH dL ESC G	Set default parameters
dH dL \$1B \$4D	dH dL ESC M	Set default parameters of print mode
\$1B \$4E	ESC N	Set printing in NORMAL
\$1B \$52	ESC R	Set printing in REVERSE
\$1B \$56 n	ESC V n	Set print mode rotated by 90°
\$1B \$61 n	ESC a n	Select justification
\$1B \$62	ESC b	Set font 2
\$1B \$6D	ESC m	Read default parameters of print mode
\$1B \$70	ESC p	Read default parameters
aH aL \$1B \$72	aH aL ESC r	Read EEPROM location
\$1B \$74 n	ESC t n	Select character code table
\$1B \$76	ESC v	Transmit printer status
aH aL dH dL \$1B \$77	aH aL dH dL ESC w	Write EEPROM location
\$1B \$FA n xH xL yH yL	ESC · n xH xL yH yL	Print graphic bank
\$1B \$FF m nL nH d0dn	ESC { } m nL nH d0dn	Receive and store logos in Flash
\$1C \$C0 \$34	FS { } 4	Total cut and automatic paper moving back
\$1D \$0C	GS FF	Print the buffer contents
\$1D \$3A	GS :	Set starting/end of macro definition
\$1D \$43 \$30 n m	GSC0nm	Select counter print mode
\$1C \$C0 \$34	FS { } 4	Total cut and automatic paper moving back
\$1D \$43 \$31 aL aH bL bH n r	GS C 1 aL aH bL bH n r	Select count mode (A)
\$1D \$43 \$32 nL nH	GS C 2 nL nH	Select counter

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Com. HEX	Com. ASCII	Description
\$1D \$43 \$3B sa \$3B sb \$3B sn \$3B sr \$3B sc \$3B	GS C ; sa ; sb ; sn ; sr ; sc ;	Select count mode (B)
\$1D \$48 n	GS H n	Select printing position of HRI characters
\$1D \$49 n	GSIn	Transmit printer ID
\$1D \$50 x y	GSPxy	Set horizontal and vertical motion units
\$1D \$5E r t m	GS ^ r t m	Execute macro
\$1D \$63	GS c	Print counter
\$1D \$66 n	GSfn	Select font for HRI characters
\$1D \$68 n	GShn	Select height of bar code
\$1D \$6B m 00	GS k m NUL	Print bar code
\$1D \$77 n	GS w n	Select horizontal size (magnification) of bar code
\$1D \$7C n	GS n	Set printing density

NOTE: in "Note" column where the model is not specified, the command is valid for all models.

The following pages provide a more detailed description of each command.

[Name]	Print with small character	
[Format]	ASCII	NUL
	Hex	00
	Decimal	0
[Description]	Character printi	ng is executed in small format (normal)
[Notes]	 Setting remain 	ns until the next set
[Default]	Set up from from	nt keys.
[Reference]	\$01, \$02, \$03, \$	504
[Example]		

....

\$01			
[Name]	Printing with double width character		
[Format]	ASCII	SOH	
	Hex	01	
	Decimal	1	
[Description]	Printing of the character is executed in double width format		
[Notes]	 Setting remains until next set 		
[Default]	Set up from front keys.		
[Reference]	\$00, \$02, \$03, \$04		
[Example]			

\$02				
[Name]	Printing in	double heig	ht character	
[Format]	ASCII	STX		
	Hex	02		
	Decimal	2		
[Description]	Printing of the character is executed in double height format			
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[Notes]• Setting remains until next set[Default]Set up from front keys.[Reference]\$00, \$01, \$03, \$04[Example]

\$03	
[Name]	Printing with expanded character
[Format]	ASCII ETX
	Hex 03
	Decimal 3
[Description]	Printing of the character is executed in expanded format
[Notes]	 Setting remains until next set
[Default]	Set up from front keys.
[Reference]	\$00, \$01, \$02, \$04
[Example]	

\$04

[Name]	Print with s	mall character
[Format]	ASCII	EOT
	Hex	04
	Decimal	4
[Description]	Character p	rinting is executed in small format (normal)
[Notes]	 Setting ren 	nains until next set
[Default]	Set up from	front keys.
[Reference]	\$00, \$01, \$0	92, \$03
[Example]		

\$0A

[Name]	Line feed	
[Format]	ASCII	LF
	Hex	0A
	Decimal	10
[Description]	Prints the data	in the buffer and feeds one line, based on the current line spacing.
[Notes]	 The comman 	d sets the print position at the beginning of the line.
[Default]		
[Reference]	\$1B \$32, \$1B	\$33
[Example]		

(n) \$0B

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[Default]

[Reference]

[Example]

\$0D		
[Name]	Print and li	ne feed
[Format]	ASCII	CR
	Hex	0D
	Decimal	13
[Description]	This comma	and prints the data in the buffer.
[Notes]	 This comm 	nand sets the print position at the beginning of the line.
[Default]		
[Reference]	\$0A	
[Example]		

\$0F				
[Name]	Ignore CR			
[Format]	ASCII	SI		
	Hex	0F		
	Decimal	15		
[Description]	After this command the CR code is ignored.			
[Notes]	 To put the 	CR code back into operation, reset the printer.		
[Default]				
[Reference]				
[Example]				

\$11							
[Name]	Graphic	mode DP2	24/40				
[Format]	ASCII	DC	1				
	Hex	11					
	Decimal	17					
[Description]	Prints in graphic mode like the DP 24/40. The command \$11 enables the DP24-40 printer graphic mode, i.e. to print in graphic mode, transmit the command \$11 at the beginning of each line. One line for the DP24-40 printer (24 column model) corresponds to 44 horizontal dots divided into 24 6-dot blocks. For the DP24-40 printer (40-column model) one line corresponds to 240 horizontal dots divided into 40 6-dot blocks.						
[Notes]	number o To obtain	The size of the graphic dot and the number of dots per line vary depending on the number of columns. To obtain a graphic printout, enter the command \$11 at the beginning of each line. The graphic configuration byte format is as follows:					
	XR	P6 P5	P4	P3	P2	P1	
	D7D6	D5 D4		D2	D1	D0	
where: X is not utilized (we recommend 0); R must be set at 1; P1, P6 are the data of the graphic dots (1 prints, 0 does not print). The P6 bit of the string of dots transmitted, is printed on the left and the others (P5, 1)					• •		
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[Default] [Reference]	1st by	,		2nd	byte -	as shown: 3 P2 P1	3rd byte → P6 P5 P4 P3 P2 P1			
[Example]	\$11, n To prin	To print a line of dots, transmit: \$11, n x \$7F (where n is the number of characters per line), \$0D. To print an empty line, transmit: \$11, n x \$40, \$0D.								
\$1B \$21 n										
[Name]	Select	print m	odes.							
[Format]	ASCII	-	ESC	!	n					
	Hex		1B	21	n					
	Decim	al	27	33						
[D]			21	55	n					
[Range]	0 ≤ n ≤									
[Description]	Select	s the pri	nt mod	e usin	g <i>n</i> (se	e following	ables):			
			1							
	Bit	Off/On	He		Decimal		Function			
	0	Off	00		0		font A selected.			
	1	On -	01		-	RESERVE	font B selected.			
	2	-	-		-	RESERVE				
	3	Off	00		0		e not selected.			
		On	08		8	Bold mode	e selected.			
	4	Off	00		0		ight mode not selected.			
		On	10		16		ight mode selected.			
	5	Off	00		0		dth mode not selected.			
	6	On Off	20 00		32 0		dth mode selected.			
	0	On	40		64		le selected.			
	7	Off	00		0		mode not selected.			
		On	80		128		mode selected.			
[Notes] [Default] [Reference]	comma • Wher aligned	and \$1B In the cha I at the b	\$24 and aracters baseline	nd 90° s on th e or top	clockv e same oline.	vise rotated e line are en	but it cannot underline the space s characters. larged to different heights, they a n at the default value.	-		
[Example]										
\$1B \$24 nL nH										
[Name]	Set ab	solute	orint p	ositio	n					
- [Format]	ASCII	ESC	-	nL	nH					
	Hex		Ф 1В	24	nL	nH				
	Decim	al 27	36	nL	nH					
		u <i>21</i>	50		101					
[Range]	$0 \le nL$									

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	$0 \le nH \le 255$
[Description]	Sets the distance from the beginning of the line to the position in which the subsequent characters are to be printed.
	The distance from the beginning of the line to the print position is $[(nL + nH \times 256) \times (vertical or horizontal motion unit)]$ inches.
[Notes]	 Settings outside the specified printable area are ignored. The vertical and horizontal motion units are specified by \$1D \$50. The command \$1D \$50 can change the horizontal (and vertical) motion unit. However, the value cannot be less than the minimum horizontal movement amount. In standard mode the horizontal motion unit (x) is used. If the setting is outside the printing area width, set absolute print position, but left or right margin is set at default value.
[Default]	
[Reference] [Example]	\$1D \$50

\$1B \$2A m nL nH d1dk									
[Name]	Select bit in	mage moc	le.						
[Format]	ASCII	ESC	*	m	nL	nH	d1dk		
	Hex	1B	2A	m	nL	nH	d1dk		
	Decimal	27	42	m	nL	nH	d1dk		
[Range]	m = 0, 1, 32, 33								
	0 ≤ nL ≤ 255	$0 \le nL \le 255$							
	$0 \le nH \le 1$	$0 \le nH \le 1$							
	$0 \le d \le 255$								
[Description]	Selects a bit follows:	t image-mo	ode usin	g m for t	he numbe	er of dots	s specified by nL and by nH, as		

m	Mode	Vertical	direction	Horizontal direction (*1)		
	Widde	N° dot	DPI	DPI	N° of data (k)	
0	8 dots single density	8	67	100	nL + nH x 256	
1	8 dots double density	8	67	200	nL + nH x 256	
32	24 dots single density	24	200	100	(nL + nH x 256) x 3	
33	24 dots double density	24	200	200	(nL + nH x 256) x 3	

[Notes]

• The commands *nL* and *nH* indicate the number of horizontal dots in the graphic image. The nL and nH indicate the number of dots of the bit image in the horizontal direction. The number of dots is calculated by $nL + nH \times 256$.

• If the bit image data exceeds the number of dots to be printed on a line, the excess data is ignored.

• *d* indicates the bit image data. Set a corresponding bit at 1 to print dot or at 0 not to print dot.

• If the value of *m* is outside the specified range, *nL* and the data following are processed as normal data.

• To print the bit-image, use the commands **\$0A** or **\$0D**.

• After printing a bit image, the printer reverts to normal data processing mode.

• This command is not affected by bold, double strike, underlining (etc.) modes, with the exception of upside down mode.

The relationship between the image data and the dots to be printed is as follows:

I G12	26075	2460



8 dot image

24 dot image





[Default]

[Reference]

[Example]

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\$1B \$40						
[Name]	Inizialize th	e printer.				
[Format]	ASCII	ESC	@			
	Hex	1B	40			
	Decimal	27	64			
[Description]	Clears the data in the print buffer and resets the printer mode to the one that was in effect when the power was turned on					
[Notes]	 Same as h 	ardware r	eset			
[Default]						
[Reference]						
[Example]						
\$1B \$42						
[Name]	Select Font	1				
[Format]	ASCII	ESC	В			
	Hex	1B	42			
	Decimal	27	66			
[Description]	Select FON	1				
[Notes]	 Setting rem 	ains until	next set.			
[Default]	Set up from	front keys				
[Reference]	\$1B \$62					
[Example]						
¢4 D ¢40						
\$1B \$43	Tatal and					
[Name]		500	0			
[Format]	ASCII	ESC	C			
	Hex	1B	43			
	Decimal	27	67			
[Description]			s cutter opera g commands v		s no cutter, a disabli d.	ng flag is set and

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[Notes]

• The printer waits until all the paper movement commands have been completed before executing total cut

[Default] [Reference] [Example]

\$1B \$4B [d] \$0D

[Name]	Set the cha	racters to	transn	nit on pressing the Print key.		
[Format]	ASCII	ESC	K	CR		
	Hex	1B	4B	0D		
	Decimal	27	75	13		
[Description]	Saves characters to transmit on pressing Print key. " <i>d</i> " is the ASCII string to transmit, terminating with \$0D . To deactivate this function, transmit a \$00 .					
[Notes]	 The maximum number of characters to transmit is 24 (with \$0D at the end). 					
[Default]	<i>d</i> = 13					
[Reference] [Example]						

dH dL \$1B \$47					
[Name]	Set default	paramet	ers.		
[Format]	ASCII	dH	dL	ESC	G
	Hex	dH	dL	1B	47
	Decimal	dH	dL	27	71
[Range]	$0 \le dH, dL \le$	255			
[Description]	Sets default parameters as indicated as follows :				

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	NORMAL printing mode
0	On	01	1	REVERSE printing mode
1	Off	00	0	\$0D command executed
1	On	02	2	\$0D command ignored
2	Off	00	0	Horizontal printing
2	On	04	4	Vertical printing
	Off	00	0	doesn't execute centered printing
3	On	08	8	executes centered printing
	Off	00	0	Aligns print to left
4	On	10	16	Align print to right
5	Off	00	0	Fixed to Off
	Off	00	0	Deactivates underlining
6	On	40	64	Activates underlining
-	Off	00	0	Deactivates bold printing
7	On	80	128	Activates bold printing

[Notes]	Setting is memorized in EEPROM.
[Default]	Set up from front keys.
[Reference]	
[Example]	If $dH = 4$ and $dL = D$ the value of d is 77 (\$4D)



dH dL \$1B \$4D					
[Name]	Set default parameters of print mode.				
[Format]	ASCII	dH	dL	ESC	Μ
	Hex	dH	dL	1B	4D
	Decimal	dH	dL	27	77
[Description]	Sets the default parameters of print mode as indicated as follows : \$00 : small print \$01 : double width printing \$02 : double height printing \$03 : bold printing				
[Notes]	Setting is mem	orized in	EEPRO	M.	
[Default] [Reference]	Set up from front keys.				
[Example]	If $dH = A'$ and d	<i>IL</i> = '3' th	e value o	of <i>d</i> is 16	63 (\$A3)

\$1B \$4E

[Name]	Set printing	g in NORMA	L	
[Format]	ASCII	ESC	Ν	
	Hex	1B	4E	
	Decimal	27	78	
[Description]	Selects printing in NORMAL mode.			
[Notes]	 Setting remains until next set. 			
[Default]	Set up from front keys.			
[Reference]	\$1B \$52			
[Example]				

\$1B \$52

[Name]	Set printing	in REVERS	SE	
[Format]	ASCII	ASCII ESC		
	Hex	1B	52	
	Decimal	27	82	
[Description]	Set printing in REVERSE mode.			
[Notes]	Setting remains until next set			
[Default]	Set up from front keys.			
[Reference]	\$1B \$4E			
[Example]				

\$1B \$56 n

[Name]	Set print mode rotated by 90°.			
[Format]	ASCII	ESC	V	n
	Hex	1B	56	n
	Decimal	27	86	n
[Range]	0 ≤ n ≤ 1 48 ≤ n ≤ 49			
[Description]	Enable / disable print mode rotated by 90°. n is used as follows :			

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

[Notes]

• When underlined mode is turned on, the printer does not underline 90° rotated characters. All the same it's possible select the underline mode.

• Double-width and double-height commands in 90° rotation mode enlarge characters in the opposite directions from double-height *and* double-width commands in normal mode.

• This command is not available in Page mode.

• If this command is entered in Page mode, the printer all the same save the setting.

Default] [Reference] [Example] n = 0

\$1B \$21, \$1B \$2D

\$1B \$61 n

[Name]	Select justific	ation								
[Format]	ASCII	ESC	а	n						
	Hex	1B	61	n						
	Decimal	27	97	n						
[Range]	$0 \le n \le 2, 48 \le$	n ≤ 50								
[Description]	Aligns all the data in one line in the position specified. <i>n</i> selects the type of justifi as follows:				s the type of justification					
	n		ficatio							
	0, 48 1, 49		ustifica	tion						
	2,50	Centering Right justification								
[Notes]	-	•	•	led if input at the be	ginning of the	line.				
	The lines are justified within the specified printing area.									
	 The spaces s mode. 	et by th	ne com	mand \$1B \$24 rema	ain justified a	s per the previously set				
[Default]	n = 0									
[Reference]										
[Example]	Left justification	ו		Centering		Right justification				
	ABC	٦			1					
	ABCD			ABC ABCD		ABC ABCD				
	ABCDE			ABCDE		ABCDE				
	10002			ADODE		ADODE				
\$1B \$62										
[Name]	Select FONT	2.								
[Format]	ASCII	ESC	b							
	Hex	1B	62							
	Decimal	27	98							
[Description]	Select FONT 2									
[Notes]	 Setting remai 	ns until	next s	et						

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[Default] [Reference] [Example] \$1B \$6D	Set up from front keys. \$1B \$42
[Name] [Format]	Read default parameters of print mode ASCII ESC m Hex 1B 6D
[Description] [Notes] [Default] [Reference] [Example]	Decimal 27 109 Reads default parameters of print mode. See ESC M. Set up from front keys. \$1B \$4D

\$1B \$70

[Name]	Read default	paramet	ers		
[Format]	ASCII	ESC	р		
	Hex	1B	70		
	Decimal	27	112		
[Description]	Reads default and "on line" parameters.				
[Notes]	See \$1B \$47 .				
[Default]	Set up from fro	nt keys			
[Reference]	\$1B \$47				
[Example]					

aH aL \$1B \$72

[Name]	Read EEPR	OM posi	tion.				
[Format]	ASCII	aН	aL	ESC	r		
	Hex	aН	aL	1B	72		
	Decimal	aН	aL	27	114		
[Range]	0 ≤ a ≤ 63 '0' ≤ aH ≤ '9' '0' ≤ aL ≤ '9',						
[Description]	aH is the mo	Reads the location addressed by <i>a</i> where: <i>aH</i> is the most significant nibble, expressed in ASCII, of <i>a</i> <i>aL</i> is the least significant nibble, expressed in ASCII, of <i>a</i>					
[Notes]							
[Default]							
[Reference]	\$1B \$77	\$1B \$77					
[Example]		To read the position \$12, transmit: \$31 \$32 \$1B \$72 The response will be the location value in hexadecimals expressed in two ASCII bytes.					
\$1B \$74 n							
[Name]	Select the	Select the character code table.					
[Format]	ASCII	ESC	t	n			
	Hex	1B	74	n			
	Decimal	27	116	n			
[Range]	n = 0, 19, 25	55					
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[Description]

Selects a page *n* from the character code table, as follows:

n	Page
0	0 (PC437 [U.S.A., Standard Europe])
19	19 (PC858 for Euro symbol at position 213
255	Page space

[Note]	
[Default]	n = 0
[Reference]	See character code table
[Example]	For printing Euro symbol (•), the command sequence is: \$1B, \$74, \$13, \$D5

\$1B \$76

[Name]	Transmit pa	aper senso	or status.		
[Format]	ASCII	ESC	v		
	Hex	1B	76		
	Decimal	27	118		
[Description]	Transmits th	ne current p	paper sensor status upon receiving this command.		
[Notes]	 This command is executed immediately, even when the reception buffer is full (Busy). 				

I his command is executed immediately, even when the reception buffer is full (Busy). The status to be transmitted is shown in the table below :

Bit	Off/On	Hex	Decimal	Function
0,1	Off	00	0	Near paper end sensor Paper present
0,1	On	03	3	Near paper end sensor Near paper end
2.2	Off	00	0	Paper end sensor Paper present
2,3	On	0C	12	Paper end sensor Paper end
4	Off	00	0	Fixed to Off
5	-	-	-	RESERVED
6	-	-	-	RESERVED
7	Off	00	0	Fixed to Off

[Default]

[Reference] \$10 \$04 [Example]

aH aL dH dL \$1B \$77 [Name] Write EEPROM position. ASCII [Format] aН aL dH dL ESC w Hex aН aL dH dL 1B 77 Decimal aН dH dL 119 aL 27 [Range] $0 \le a \le 63$ $0' \le aH \le 9'$, $A' \le aH \le F'$ $`0' \leq aL \leq `9', `A' \leq aL \leq `F'$ $0 \le d \le 255$ $0' \le dH \le 9'$, $A' \le dH \le F'$ $`0' \leq dL \leq `9', \ `A' \leq dL \leq `F'$ TG1260/2460 **CUST@M** 2-44

[Description]	Writes, at the location addressed by <i>a</i> , data <i>d</i> where: <i>aH</i> is the most significant nibble, expressed in ASCII, of <i>a</i> <i>aL</i> is the least significant nibble, expressed in ASCII, of <i>a</i> <i>dH</i> is the most significant nibble, expressed in ASCII, of <i>d</i> <i>dL</i> is the least significant nibble, expressed in ASCII, of <i>d</i>
[Notes] [Default] [Reference] [Example]	\$1B \$72 To write the value \$34 in position \$12, transmit: \$31 \$32 \$33 \$34 \$1B \$77

\$1B \$FA n xH xL yH yL

[Name]	Print gra	aphic b	bank (448 × 1 [.]	170 do	ts).							
[Format]	ASCII		ESC	{ }	n	хH	хL	уH	уL				
	Hex		1B	FA	n	хH	xL	уH	уL				
	Decimal		27	250	n	хH	хL	уH	уL				
[Range]	1 ≤ <i>n</i> ≤ 2												
		$0 \leq xH$, xL , yH , $yL \leq 255$											
[Description]		Prints the graphics bank from flash or ram. <i>n</i> selects the bank as follows:											
	n			Fu	unctior								
	1	Print f	flash ba	ank logo	1								
	2	Print f	flash ba	ank logo	2								
						ot line (1 - of lines to p).					
[Notes]	• Se (<i>xL</i>	• If $(xL + (xH \times 256)) > 1170$ the printer does not execute the command. • Se $(xL + (xH \times 256) + yL + (yH \times 256)) > 1170$ the printer only prints $1170 - xL + (xH \times 256) + 1$ dotlines.											
[Default]	~ 200) 1	i uutiii	103.										
[Reference]													
[Example]	To print l	oao 1 fr	rom fla	sh bank	dotline	100 to do	tline 29)9. ser	nd:				
[]		\$FA	\$01	\$00	\$64		\$C7						
\$1B \$FF m nL i	nH d0dn												
[Name]	Receive	and st	tore lo	gos in f	lash.								
[Format]	ASCII		ESC	{}	m	nL	nH	d0	dn				
	Hex		1B	FF	m	nL	nH	d0	dn				
	Decimal		27	255	m	nL	nH	d0	dn				
[Range]	0 <i>≤ nL</i> , <i>n</i>	H≤255	5	1 ≤ <i>m</i> ≤	≤2 ($0 \le d0, dn \le$	≤255						
[Description]		 Received [nL + (nH x 256)] x 2 bytes and store in the flash. If [nL + (nH x 256)] exceeds 32768, the data following will be processed as normal data 											
	 Saved 	the gra	phics b	ank fro	m flash	. <i>m</i> select	s the b	ank as	s follows:				
	m		F	unction									
	1	Save logotype into flash bank 1											
	2	Save logotype into flash bank 2											

• d0, dn = value of bit stream image

[Default] [Reference] [Example]

To store the logotype indicated below ,into flash bank 2, necessity execute the follows operation

1)Define the image dimensions.

The width of image is 448 horizontal pixel ; the height maximun of image is 1170 vertical pixel.

2) Calculate the number of bytes to send as (height pix*width pix)/16.

Bytes number in example is 448 x 1170/16=32760 in exadecimal resulting = 7FF8.

3) Bit stream image conversion.

In the following figure is reproduced the logotype enlargement in the zone indicated by the arrow to define d0...dn





In this example; d0=FF; d1=03; d2=FC; d3=0F

Then send this command to the printer



\$1C \$C0 \$34	
[Name]	Total cut and automatic paper moving back.
[Format]	ASCII FS {} 4
	Hex 1C C0 34
	Decimal 28 192 52
[Description]	This command enables cutter operation and executes a total cut and automatic paper moving back; if there is no cutter, a disabling flag is set any subsequent cutting commands will be ignored.
[Notes]	 The printer waits until all the paper movement commands have been completed before executing total cut
[Default]	
[Reference]	
[Example]	
\$1D \$0C	
[Name]	Print the buffer contents.
[Format]	ASCII GS FF
	Hex 1D 0C
	Decimal 29 12
[Description]	Prints contents of buffer characters and executes a line feed. Sets the printing start position at left margin.
[Notes]	
[Default]	
[Reference]	\$0A
[Example]	
\$1D \$3A	
[Name]	Start / end macro definition.
[Format]	ASC II GS :
	Hex 1D 3A
	Decimal 29 58
[Description]	Starts or ends macro definition.
[Notes]	 Macro definition starts when this command is received during normal operation. When the command \$1D \$5E is received during macro definition, the printer ends the macro definitions and clears all definitions. Macro not defined when the power is turned on. The defined contents of the macro are not cleared by the command \$1B \$40. Therefore, \$1B \$40 can be included in the contents of the macro definitions. If the printer receives the command \$1D \$3A again immediately after previously receiving \$1D \$3A, the printer remains in the macro undefined state. The contents of the macro can be defined up to 1024 bytes. If the macro definition exceeds 1024 bytes, the excess data is not not stored.
[Default]	
[Reference]	\$1D \$5E
[Example]	
\$1D \$43 \$30 n m	
[Name]	Set counter print mode.
[Format]	ASCII GS C 0 n m
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	Hex	1D	43	30	n	m							
	Decimal	29	67	48	n	m							
[Range]	$0 \le n \le 5$												
	m = 0, 1, 2, 48, 49, 50												
[Description]	• <i>n</i> specif when <i>n</i> = when <i>n</i> =	 Selects a print mode for the serial number counter. <i>n</i> specifies the number of digits to be printed as follows: when <i>n</i> = 0, the printer prints the actual digits indicated by the number value. when <i>n</i> = from 1 to 5, this command sets the number of digits to be printed. m specifies the printing position within the entire range of printed digits, as follows: 											
	m		Р		Proc	essing of	digits low	er than t	hose spe	cified			
	0. 48	Rig	ht justifi	cation	Add s	spaces to le	ft						
	1.49	Rig	ht justifi	cation	Add '	0' to left.							
	2.50	Le	ft justific	cation	Add s	spaces to rig	ght.						
[Notes] [Default]	 if <i>n</i> or <i>m</i> If <i>n</i> = 0, <i>n</i> = 0, <i>m</i> 	<i>m</i> has			-	e, the prev	viously se	et print m	ode is no	ot chan	ged.		
[Reference]	\$1D \$43	\$31, \$	1D \$4	3 \$32, \$	\$1D \$43	3 \$3B, \$1C	\$63						
[Example]	n = 3, m	= 0		n = 3	, m = 1	n =	3, m=2						
		1		0	01		10						
	□ indic	ates a	space	;									
\$1D \$43 \$31 aL aH	l bL bH n	r											
[Name]	Select c	ount n	node (A).									
[Format]	ASCII		GS	С	1	aL	аH	bL	bH	n	r		
	Hex		1D	43	31	aL	аH	bL	bH	n	r		
	Decimal		29	67	49	aL	аH	bL	bH	n	r		
[Range]	0≤aL, al												
	0≤bL, bl		5										
	0 ≤ n, r ≤												
[Description]	• <i>aL</i> , <i>aH</i> • <i>n</i> specif	o <i>bL</i> , <i>b</i> fy the s	<i>H</i> spe teppin	cify the	counte unt whe	umber cou r range. n counting nen the co	up or do		ed.				
[Notes]	 Count-up mode is specified when: [aL + (aH×256)] < [bL + (bH×256)] and n≠0 and r≠0 Count-down mode is specified when: [aL + (aH×256)] > [bL + (bH×256)] and n≠0 and r≠0 Counting stops when: [aL + (aH×256)] = [bL + (bH×256)] or n = 0 or r = 0 In setting count-up mode, the minimum value of the counter is [aL + (aH×256)] and the maximum value is [bL + (bH×256)]. If counting up reaches a value exceeding the maximum, it is resumed with the minimum value. In setting count-down mode, the maximum value of the counter is [aL + (aH×256)] and the minimum value is [bL + (bH×256)]. If counting down reaches a value less than minimum, it is resumed with the maximum value. When the command is executed, the internal count that indicates the repetition number specified by <i>r</i> is cleared. 												
[Default]						n = 1, r =							
[Reference] [Example]	\$1D \$43	\$30, \$ [·]	1D \$43	3 \$32, \$	1D \$43	\$3B, \$1D	\$63						
	TOADCO												

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\$1D \$43 \$32 nL nH

[Name]	Set cour	nter.					
[Format]	ASCII	GS	С	2	nL	nH	
	Hex		1D	43	32	nL	nH
	Decimal	29	67	50	nL	nH	
[Range]	0≤nL, nl	H≤25	5				
[Description]	Sets the serial number counter value. • nL and nH determine the value of the serial number counter set by $[nL + (nH \times 256)]$.						
[Notes]	counter o minimum • In coun	operati value t-dowr operati	on ran by GS mode on ran	ge spe S c. e, if the ge spe	ecified count	by GS er valu	specified by this command goes out of the C 1 or GS C ;, it is forced to convert to the specified by this command goes out of the C 1 or GS C ;, it is forced to convert to the
[Default]	nL = 1, n	H = 0					
[Reference]	\$1D \$43	\$30, \$	1D \$4	3 \$31,	\$1D \$	43 \$3E	3, \$1D \$63
[Example]							

\$1D \$43 \$3B sa \$3B sb \$3B sn \$3B sr \$3B sc \$3B [Name] Select count mode. [Format] ASCII GS С sa sb sn sr sc ; ; ; ; Hex 1D 43 3B 3B sa 3B sb 3B sn 3B sr 3B SC Decimal 29 67 59 59 59 59 59 sc 59 sa sb sn sr [Range] $0 \leq sa, sb, sc \leq 65535$ $0 \leq sn, sr \leq 255$ These values are all character strings. [Description] Selects a count mode for the serial number counter and specifies the value of the counter. • sa, sb, sn, sr and sc are all displayed in ASCII characters using the codes from 'O' to **'9'**. • sa and sb specify the counter range. • *sn* indicates the stepping amount for counting up or down. • sr indicates the repetition number with the counter value fixed. • sc indicates the counter value. [Notes] • Count-up mode is specified when: sa < sb and $sn \neq 0$ and $sr \neq 0$ Count-down mode is specified when: sa > sb and $sn \neq 0$ and $sr \neq 0$ Counting stops when: sa = sb or sn = 0 or sr = 0• In setting count-up mode, the minimum value of the counter is sa and the maximum is sb. If counting up reaches a value exceeding the maximum, it is resumed with the minimum value. If the counter value set by sc is outside the counter operation range, the counter value is forced to convert to the minimum value by executing \$1D \$63.

CUST@M

[Default]	value is s the maxin the count • Parame • Parame to '9'.	ig count-dow b. If counting mum value. If ther value is for eters sa to so eters sa to so the = 65535 s	down r the cou rced to c can be must no	eaches a inter valu convert to omitted. ot contair	e value less e set by so the maxin If omitted, n characte	s than the c is outsie mum valu , these va	e minimur de the cou ue by exec alues rema	n, it is resum Inter operatio cuting \$1D \$6 ain unchange	ned with on range, 63 . ed.				
[Reference] [Example]		sa = 1, sb = 65535, sn = 1, sr = 1, sc = 1 \$1D \$43 \$30, \$1D \$43 \$32, \$1D \$43 \$31, \$1D \$63											
\$1D \$48 n													
[Name]	Select p	rinting posit	tion of H	Human F	eadable	Interpre	etation (HRI)					
[Format]	ASCII	GS	Н	n									
	Hex	1D	48	n									
	Decimal	29	72	n									
[Range]	$0 \le n \le 3$, 48 ≤ n ≤ 51											
[Description]		ne printing po osition as fol		f HRI cha	racters wh	nen printi	ing bar co	de. <i>n</i> selects	the				
	n		Fur	nction									
	0, 48	Not printed											
	1, 49	Above the bar	code.										
	2, 50	Underneath the bar code.											
	3, 51	Both above and underneath the bar code.											
[[Notes]	• HRI cha	aracters are p	printed u	ising the	font speci	fied by th	ne comma	and GS f.					
[Default]	n = 0	'		Ũ	•								
[Reference]	\$1D \$66, \$1D \$6B												

[Reference]	
[Example]	

\$1D \$49 n						
[Name]	Transm	nit printer ID).			
[Format]	ASCII	GS	Ι	n		
	Hex	1D	49	n		
	Decima	l 29	73	n		
[Range]	1 ≤ n ≤ 3	3, $49 \le n \le 5^{\circ}$	1			
[Description]	Transm	its the printe	r ID spe	ecified	by n as follows:	
	n	Printer ID			Specification	
	1, 49	Printer mode i	dentifica	tion	\$6D (TG2460)	
	2, 50	Function ident	ification		See table below	

3, 51

ROM version identification

2-50

Depends on ROM version (4 char)



n = 2, Identification Function

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	Non supported 2-byte character codes
4	Off	00	0	Autocutter not supplied
	On	02	2	Autocutter supplied
	Off	00	0	Thermal paper without label
2	On	04	4	Thermal paper with label
3	-	-	-	RESERVED
4	Off	00	0	Fixed at 0
5	-	-	-	RESERVED
6	-	-	-	RESERVED
7	Off	00	0	Fixed at 0

[Notes]

• When the DTR/DSR control is selected, the printer only transmits 1 byte (Printer identification) after it has been given confirmation that the host is ready to receive data. If the host is not ready, the printer waits until it is.

When the XON/XOFF control is selected, the printer only transmits 1 byte (Printer identification) if it has not been given confirmation that the host is ready to receive data.
This command is carried out once the data has been processed in the reception buffer. There may therefore be a delay between the moment in which the command is received and that in which the data is transmitted, depending on the status of the reception buffer.

[Default] [Reference] [Example]

\$1D \$50 x y								
[Name]	Set horizontal and vertical motion units.							
[Format]	ASCII	GS	Ρ	х	У			
	Hex		1D	50	х	у		
	Decimal	29	80	х	у			
[Range]	x = 100, 2 y = 100, 2							
[Description]	Sets the horizontal and vertical motion units at $1/x$ inches and $1/y$ inches, respectively. When x is set at 0, the default setting value is used.							
[Notes]						0	ue is used. ation and initialize the default values again.	
[]	• The hor • This co • The cal	izonta mman culate	l direct d does d resu	tion is p s not a It from	berper ffect tl comb	ndicula ne prev bining tl	r to the paper feed direction. viously specified values. his command with others is truncated to the or an exact multiple of that value.	
[Default]	x = 200, y	y = 20	0					
[Reference]	\$1B \$24							
[Example]								
\$1D \$5E r t m								
[Name]	Execute	macr	о.					
[Format]	ASCII	GS	٨	r	t	m		
	Hex		1D	5E	r	t	m	
	Decimal	29	94	r	t	m		
[Range]	$0 \le r, t \le$	255						

CUST@M	2-51	TG1260/2460

be fed by using the FEED button. [Default] [Reference] \$1D \$3A [Example] \$1D \$63 [Name] Print counter. [Format] ASCII GS c Hex 1D 63 Decimal 29 99 [Description] Sets the serial counter value in the print buffer and increments or decrements the counter value. [Notes] • After setting the current counter value in the print buffer as print data (a character string), the printer counts up or down based on the count mode set. The counter value in the print buffer is printed when the printer receives a print command or is in the buffer full state. • The counter print mode is set by \$1D \$43 \$30. • The counter print mode is set by \$1D \$43 \$31 or \$1D \$43 \$3B. • In count-up mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the minimum value.		$0 \le m \le 1$				
[Notes] • This command lasts for a period of (t × 100 msec.) after a macro is executed by t. • If this command is received while a macro is being defined, the macro definition is aborted and the definitions cleared. • If the macro is not defined or if r is 0, nothing happens. • When the macro is executed by pressing the FEED button (m = 1), the paper can not be fed by using the FEED button. [Default] [Reference] \$1D \$3A [Example] \$1D \$63 [Name] Print counter. [Format] ASCII GS ASCII GS c Hex 1D 63 Decimal 29 99 [Description] Sets the serial counter value in the print buffer and increments or decrements the counter value. [Notes] • After setting the current counter value in the print buffer as print data (a character string), the printer counts up or down based on the counter value in the buffer full state. • The counter print mode is set by \$1D \$43 \$31 or \$1D \$43 \$38. • In count-up mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$31, \$1D \$43 \$32, \$1D \$43 \$38. • In count-down mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$31, \$1D \$43 \$32. • In count-down mode, if the coun	[Description]	 <i>r</i>specifies the number of <i>t</i> specifies the waiting tim The waiting time is <i>t</i> × 100 <i>m</i> specifies macro exect When the LSB of <i>m</i> = 0, th specified <i>t</i>. When the LSB of <i>m</i> = 1, a blinks and the printer waits 	ne for executing the macro.) msec. for every macro execution. uting mode: he macro executes <i>r</i> times continuously at the interval fter waiting for the period specified by <i>t</i> , the LED indicator s for the FEED button to be pressed. After the button is			
[Reference] \$1D \$3A [Example] \$1D \$63 [Name] Print counter. [Format] ASCII GS c Hex 1D 63 Decimal 29 99 [Description] Sets the serial counter value in the print buffer and increments or decrements the counter value. [Notes] • After setting the current counter value in the print buffer as print data (a character string), the printer counts up or down based on the count mode set. The counter value in the print buffer is printed when the printer receives a print command or is in the buffer full state. • The counter print mode is set by \$1D \$43 \$30. • The counter mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$38. • In count-down mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$38. • In count-down mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$38. [Default] [Reference] \$1D \$43 \$30, \$1D \$43 \$31, \$1D \$43 \$32, \$1D \$43 \$38 [Example] \$1D \$43 \$30, \$1D \$43 \$31, \$1D \$43 \$32. \$1D \$66 n [Name] [Name] Select font for HRI characters. [Format] ASCII GS	[Notes]	 This command lasts for If this command is received aborted and the definitions If the macro is not define When the macro is exection 	 If this command is received while a macro is being defined, the macro definition is aborted and the definitions cleared. If the macro is not defined or if <i>r</i> is 0, nothing happens. When the macro is executed by pressing the FEED button (<i>m</i> = 1), the paper can not 			
[Example] \$1D \$63 [Name] Print counter. [Format] ASCII GS c Hex 1D 63 Decimal 29 99 [Description] Sets the serial counter value in the print buffer and increments or decrements the counter value. [Notes] • After setting the current counter value in the print buffer as print data (a character string), the printer counts up or down based on the count mode set. The counter value in the print buffer is printed when the printer receives a print command or is in the buffer full state. • The counter print mode is set by \$1D \$43 \$31 or \$1D \$43 \$3B. • In count-up mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the minimum value. [Default] [Reference] \$1D \$43 \$30, \$1D \$43 \$31, \$1D \$43 \$32, \$1D \$43 \$3B [Example] \$1D \$43 \$30, \$1D \$43 \$31, \$1D \$43 \$32, \$1D \$43 \$3B [Format] ASCII GS f(Rame] \$1D \$43 \$30, \$1D \$43 \$31, \$1D \$43 \$32, \$1D \$43 \$3B	[Default]					
\$1D \$63 [Name] Print counter. [Format] ASCII GS c Hex 1D 63 Decimal 29 99 [Description] Sets the serial counter value in the print buffer and increments or decrements the counter value. [Notes] • After setting the current counter value in the print buffer as print data (a character string), the printer counts up or down based on the count mode set. The counter value in the print buffer is printed when the printer receives a print command or is in the buffer full state. • The counter print mode is set by \$1D \$43 \$30. • The counter mode is set by \$1D \$43 \$30. • The counter print mode is set by \$1D \$43 \$31 or \$1D \$43 \$3B. • In count-up mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the minimum value. • In count-down mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the maximum value. [Default] [Reference] \$1D \$43 \$30, \$1D \$43 \$31, \$1D \$43 \$32, \$1D \$43 \$3B [Example] \$1D \$43 \$30, \$1D \$43 \$31, \$1D \$43 \$32, \$1D \$43 \$3B [Format] ASCII GS	[Reference]	\$1D \$3A				
[Name] Print counter. [Format] ASCII GS c Hex 1D 63 Decimal 29 99 [Description] Sets the serial counter value in the print buffer and increments or decrements the counter value. [Notes] • After setting the current counter value in the print buffer as print data (a character string), the printer counts up or down based on the count mode set. The counter value in the print buffer is printed when the printer receives a print command or is in the buffer full state. • The counter print mode is set by \$1D \$43 \$30. • The counter mode is set by \$1D \$43 \$31 or \$1D \$43 \$3B. • In count-up mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the minimum value. [Default] [Reference] \$1D \$43 \$30, \$1D \$43 \$31, \$1D \$43 \$32, \$1D \$43 \$3B [Example] \$1D \$43 \$30, \$1D \$43 \$31, \$1D \$43 \$32 \$1D \$66 n [Name] Select font for HRI characters. [Format] ASCII GS f	[Example]					
[Format] ASCII GS c Hex 1D 63 Decimal 29 99 [Description] Sets the serial counter value in the print buffer and increments or decrements the counter value. [Notes] • After setting the current counter value in the print buffer as print data (a character string), the printer counts up or down based on the count mode set. The counter value in the print buffer is printer counter value in the print command or is in the buffer full state. • The counter print mode is set by \$1D \$43 \$30. • The counter mode is set by \$1D \$43 \$31 or \$1D \$43 \$3B. • In count-up mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the minimum value. [Default] [Reference] \$1D \$43 \$30, \$1D \$43 \$31, \$1D \$43 \$32, \$1D \$43 \$3B [Example] Select font for HRI characters. [Format] ASCII GS f	\$1D \$63					
Hex 1D 63 Decimal 29 99 [Description] Sets the serial counter value in the print buffer and increments or decrements the counter value. [Notes] • After setting the current counter value in the print buffer as print data (a character string), the printer counts up or down based on the count mode set. The counter value in the print buffer is printed when the printer receives a print command or is in the buffer full state. • The counter print mode is set by \$1D \$43 \$30. • The counter mode is set by \$1D \$43 \$30. • The counter mode is set by \$1D \$43 \$31 or \$1D \$43 \$3B. • In count-up mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the minimum value. [Default] [Reference] \$1D \$43 \$30, \$1D \$43 \$31, \$1D \$43 \$32, \$1D \$43 \$3B [Example] Select font for HRI characters. [Format] ASCII GS f	[Name]	Print counter.				
Decimal2999[Description]Sets the serial counter value in the print buffer and increments or decrements the counter value.[Notes]• After setting the current counter value in the print buffer as print data (a character string), the printer counts up or down based on the count mode set. The counter value in the print buffer is printed when the printer receives a print command or is in the buffer full state.• The counter print mode is set by \$1D \$43 \$30.• The counter print mode is set by \$1D \$43 \$30.• The counter print mode is set by \$1D \$43 \$31 or \$1D \$43 \$3B.• In count-up mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the minimum value.• In count-down mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the maximum value.[Default][Reference]\$1D \$43 \$30, \$1D \$43 \$31, \$1D \$43 \$32, \$1D \$43 \$3B[Kample]\$1D \$66 n[Name]Select font for HRI characters.[Format]ASCIIGSfn	[Format]	ASCII GS c				
[Description] Sets the serial counter value in the print buffer and increments or decrements the counter value. [Notes] • After setting the current counter value in the print buffer as print data (a character string), the printer counts up or down based on the count mode set. The counter value in the print buffer is printed when the printer receives a print command or is in the buffer full state. • The counter print mode is set by \$1D \$43 \$30. • The counter print mode is set by \$1D \$43 \$31 or \$1D \$43 \$3B. • In count-up mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the minimum value. • In count-down mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the maximum value. [Default] [Reference] \$1D \$43 \$30, \$1D \$43 \$31, \$1D \$43 \$32, \$1D \$43 \$3B [Example] Select font for HRI characters. [Format] ASCII GS f		Hex 1D 6	3			
[Notes] • After setting the current counter value in the print buffer as print data (a character string), the printer counts up or down based on the count mode set. The counter value in the print buffer is printed when the printer receives a print command or is in the buffer full state. • The counter print mode is set by \$1D \$43 \$30. • The counter print mode is set by \$1D \$43 \$30. • The counter print mode is set by \$1D \$43 \$30. • The counter mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the minimum value. • In count-down mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the maximum value. [Default] [Reference] \$1D \$43 \$30, \$1D \$43 \$31, \$1D \$43 \$32, \$1D \$43 \$3B [Example] \$1D \$43 \$30, \$1D \$43 \$31, \$1D \$43 \$32, \$1D \$43 \$3B [Name] Select font for HRI characters. [Format] ASCII GS f		Decimal 29 9	9			
 string), the printer counts up or down based on the count mode set. The counter value in the print buffer is printed when the printer receives a print command or is in the buffer full state. The counter print mode is set by \$1D \$43 \$30. The counter mode is set by \$1D \$43 \$31 or \$1D \$43 \$38. In count-up mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$38, it is forced to convert to the minimum value. In count-down mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$38, it is forced to convert to the maximum value. [Default] [Reference] \$1D \$43 \$30, \$1D \$43 \$31, \$1D \$43 \$32, \$1D \$43 \$38 [Example] \$1D \$66 n [Name] Select font for HRI characters. [Format] ASCII GS f n	[Description]		lue in the print buffer and increments or decrements the			
[Reference] \$1D \$43 \$30, \$1D \$43 \$31, \$1D \$43 \$32, \$1D \$43 \$3B [Example] \$1D \$66 n [Name] Select font for HRI characters. [Format] ASCII GS f n	[Notes]	 string), the printer counts up or down based on the count mode set. The counter value in the print buffer is printed when the printer receives a print command or is in the buffer full state. The counter print mode is set by \$1D \$43 \$30. The counter mode is set by \$1D \$43 \$31 or \$1D \$43 \$3B. In count-up mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the minimum value. In count-down mode, if the counter value set by this command goes out of the counter operation range set by \$1D \$43 \$31 or \$1D \$43 \$3B, it is forced to convert to the 				
[Example] \$1D \$66 n [Name] Select font for HRI characters. [Format] ASCII GS f n	[Default]					
\$1D \$66 n [Name] Select font for HRI characters. [Format] ASCII GS f n	[Reference]	\$1D \$43 \$30, \$1D \$43 \$3	1, \$1D \$43 \$32, \$1D \$43 \$3B			
Select font for HRI characters. [Format] ASCII GS f n	[Example]					
[Format] ASCII GS f n	\$1D \$66 n					
[Format] ASCII GS f n	[Name]	Select font for HRI char	acters.			
	-	Hex 1D 6	6 n			

Decimal 29 102 n [Range] $n = 0, \, 1, \, 48, \, 49$ [Description]

Selects a font for the HRI characters used when printing a bar code.

TG1260/2460



n selects a font from the following table:

n	Font
0, 48	FONT A (14 x 24)
1, 49	FONT B (10 x 24)

[Notes]The HRI characters are printed at the position specified by the command GS H.[Default]n = 0[Reference]\$1D\$48,\$1D\$6B[Example]

\$1D \$68 n					
[Name]	Set bar code height				
[Format]	ASCII	GS	h	n	
	Hex	1D	68	n	
	Decimal	29	104	n	
[Range]	$1 \le n \le 255$				
[Description]	Sets the height of the bar code. <i>n</i> specifies the number of dots in the vertical direction.				
[Notes]					
[Default]	n = 96 (12 r	nm)			
[Reference]	\$1D \$6B				
[Example]					

Selects a bar code system and prints the bar code. *m* selects a bar code sys

• \$1D \$6B m [d1...dk] \$00 @ \$1D \$6B m n [d1...dn]

[Name]	Print bar coo	de.			
[Format]	1 ASCII	GS	k	m	NUL
	Hex	1D	6B	m	00
	Decimal	29	107	m	0
	② ASCII	GS	k	m	n
	Hex	1D	6B	m	n
	Decimal	29	107	m	n
[Range]	① 0≤m≤6				
	② 65≤m≤7	73			

[Description]

	m	Bar code system	Number of characters	Remarks
	0	UPC-A	11 ≤ k ≤ 12	$48 \le d \le 57$
	1	UPC-E	$11 \le k \le 12$	$48 \le d \le 57$
	2	EAN13 (JAN)	$12 \le k \le 13$	$48 \le d \le 57$
	3	EAN8 (JAN)	$7 \le k \le 8$	$48 \le d \le 57$
0	4	CODE39	1 ≤ k	$\begin{array}{c} 48 \leq d \leq 57,65 \leq d \leq 90,32,36,37,\\ 43,45,46,47 \end{array}$
	5	ΠF	$1 \le k$ (even number)	$48 \le d \le 57$
	6	CODABAR	1 ≤ k	$\begin{array}{c} 48 \leq d \leq 57,65 \leq d1 \leq 68,36,43,\\ 45,46,47,58 \end{array}$
	7	CODE93	$1 \le k \le 255$	1 ≤ d ≤ 127
	8	CODE128	$2 \le k \le 255$	$1 \le d \le 127$
	20	CODE32	$8 \le k \le 9$	$48 \le d \le 57$

	65	UPC-A	11 ≤ n ≤ 12	$48 \le d \le 57$
	66	UPC-E	$11 \le n \le 12$	$48 \le d \le 57$
	67	EAN13 (JAN)	$12 \le n \le 13$	48 ≤ d ≤ 57
	68	EAN8 (JAN)	7 ≤ n ≤ 8	48 ≤ d ≤ 57
	69	CODE39	1 ≤ n ≤ 255	$\begin{array}{l} 48 \leq d \leq 57,65 \leq d \leq 90,32,36,37,\\ 43,45,46,47 \end{array}$
2	70	ΠF	$1 \le n \le 255$	$48 \le d \le 57$
	71	CODABAR	$1 \le n \le 255$	$\begin{array}{c} 48 \leq d \leq 57,65 \leq d1 \leq 68,36,43,\\ 45,46,47,58 \end{array}$
	72	CODE93	$1 \le n \le 255$	$0 \le d \le 127$
	73	CODE128	$2 \le n \le 255$	$0 \le d \le 127$
	90	CODE32	$8 \le n \le 9$	48 ≤ d ≤ 57

[Notes]

• If *d* is outside the specified range, the printer prints the following message: "BAR CODE GENERATOR NON OK !" and processes the following data as normal data.

• If the horizontal size exceeds the printing area, the printer only feeds the paper.

• This command feeds as much paper as is required to print the bar code.

• After printing the bar code, this command sets the print position at the beginning of the line.

• This command is not affected by print modes (bold, double strike, underline or character size), with the exception of upside-down mode and justification.

[Notes for ①]

This command ends with a \$00 code.

When the bar code used is UPC-A or UPC-E, the printer prints the bar code data after receiving 11 (without check digit) or 12 (with check digit) byte bar code data.
When the bar code system used is EAN13, the printer prints the bar code after receiving 12 (without check digit) or 13 (with check digit) byte bar code data.

• When the system used is EAN8, the printer prints the bar code after receiving 7 (without check digit) or 8 (with check digit) byte bar code data.

• The number of data for ITF bar code must be even. When an odd number of data is input, the printer ignores the last received data.

TG1	20	U/Z	240	U


[Note for 2]	 If n is outside the specified range, the printer stops command processing and process the following data as normal data.
When to use	
CODE93:	 The printer prints an HRI character (o) as a start character at the beginning of the HRI character string.
	 The printer prints an HRI character (o) as a stop character at the end of the HRI character string.
	• The printer prints an HRI character (n) as a control character (\$00 to \$1F and \$7F).
When to use	
CODE128:	• When using the CODE128 in this printer, take the following points into account for data transmission:
	• The top of the bar code data string must be a code set selection character(CODE Λ

• The top of the bar code data string must be a code set selection character(CODE A , CODE B or CODE C) which selects the first code set.

• Special characters are defined by combining two characters "{" and one character. The ASCII character "}" is defined by transmitting "{" twice consecutively.

Cresifia sharratar	Data transmission				
Specific character	ASCII	Hex	Decimal		
SHIFT	{S	7B, 53	123.83		
CODE A	{A	7B, 41	123.65		
CODE B	{B	7B, 42	123.66		
CODE C	{C	7B, 43	123.67		
FNC1	{1	7B, 31	123. 49		
FNC2	{2	7B, 32	123.50		
FNC3	{3	7B, 33	123. 51		
FNC4	{4	7B, 34	123. 52		
'{'	{{	7B, 7B	123.123		

[Default]

[Reference] [Example]

\$1D \$48, \$1D \$66, \$1D \$68, \$1D \$77

[Name]	Set bar coo	le width.					
[Format]	ASCII	GS	w	n			
	Hex	1D	77	n			
	Decimal	29	119	n			
[Range]	$2 \le n \le 6$						
[Description]	Sets the hori	zontal siz	e of the	bar code	. <i>n</i> specif	ies the bar code width a	s follow:
	n	I	Module wie	dth (mm)			
	2		0.2	25			
	3		0.3	75			
	4		0.	5			
	5	0.625					
	6		0.7			-	

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[Notes] [Default] n = 3 [Reference] **\$1D \$6B** [Example]

[Name]	Set printing	g density.			
[Format]	ASCII	GS	{ }	n	
	Hex	1D	7C	n	
	Decimal	29	124	n	
[Range]	$0 \le n \le 4, 48$	$s \le n \le 52$			
[Description]	n			cifies the prin	
	0, 48			ry light	
	1, 49			_ight	
	2, 50		N	ormal	
	3, 51		[Dark	
	4, 52		Ve	ry dark	



2.1.3 CBM iDP560RS Emulation

The following table lists all the commands for function management in CBM iDP560RS Emulation. The commands can be transmitted to the printer at any moment, but they will only be carried out when the commands previously sent have been executed. There are no priority commands; all commands are carried out when the circular buffer is free to do. to

HEX Com.	ASCII Com.	Description
\$00	NUL	Printing with small characters
\$01	SOH	Printing with double width characters
\$02	STX	Printing with double height characters
\$03	ETX	Printing with expanded characters
\$04	EOT	Printing with small characters
\$0A	LF	Print and line feed
\$0C	FF	Carries out form feed after printing
\$0D	CR	Print and carriage return
\$0E	SO	Improved character designation (same as RS)
\$0F	SI	Standard character designation (same as US)
\$11	DC1	Makes the printer SELECT state (ON LINE)
\$13	DC3	Makes the printer DESELECT state (OFF LINE)
\$18	CAN	Clears the print data in the buffer
\$1E	RS	Enhanced character designation (one line)
\$1F	US	Standard character designation
\$1B \$31	ESC 1	3 mm line spacing
\$1B \$32	ESC 2	5.5 mm line spacing
\$1B \$40	ESC @	Initialize printer
\$1B \$43 (n)	ESC C n	Page length designation and page formatting
\$1B \$4B (n1 n2)	ESC K n1 n2	Graphic print mode
\$1B \$4F	ESC O	Page formatting off
\$1B \$69	ESC i	Total cut
\$1B \$FA n xH xL yH yL	ESC · n xH xL yH yL	Print graphic bank
\$1C \$C0 \$34	FS { } 4	Total cut and automatic paper moving back
\$1D \$49 (n)	GSIn	Transmit printer ID
\$1D \$50 x y	GS P x y	Set horizontal and vertical motion unit
\$1D \$7C (n)	GS { } n	Set printing density

COMMAND TABLE

NOTE: in "Note" column where the model is not specified, the command is valid for all models.

The following pages provide a more detailed description of each command.

Print with s	small character
ASCII	NUL
Hex	00
Decimal	0
 Setting rer Set up from 	rinting is executed in small format (normal) mains until next set front keys DF, \$0E, \$01, \$02, \$03, \$04
	ASCII Hex Decimal Character p • Setting rer Set up from

\$01		
[Name]	Printing wi	th double width character
[Format]	ASCII	SOH
	Hex	01
	Decimal	1
[Description]	Printing of th	ne character is executed in double width format
[Notes]	 Setting rer 	nains until next set
[Default]	Set up from	
[Reference]	\$00, \$02, \$0	03, \$04
[Example]		

\$02

[Name]	Printing in do	uble height character
[Format]	ASCII	STX
	Hex	02
	Decimal	2
[Description]	Printing of the o	character is executed in double height format
[Notes]	 Setting remai 	ns until next set
[Default] [Reference]	Set up from fro \$00, \$01, \$03 ,	nt keys \$04, \$0E, \$0F, \$1E, \$1F
[Example]	, . ,	

03H		
[[Name]	Printing wi	th expanded character
[Format]	ASCII	EXT
	Hex	03
	Decimal	3
[Description]	Printing of th	he character is executed in expanded format
[Notes]	 Setting rer 	mains until next set
[Default]	Set up from	
[Reference]	\$00, \$01, \$0	02, \$04, \$0E, \$0F, \$1E, \$1F
[Example]		

04H		
[Name]	Print with s	mall character
[Format]	ASCII	EOT
	Hex	04
	Decimal	4
[Description]	Character p	rinting is executed in small format (normal)
[Notes]	 Setting ren 	nains until next set
[Default] [Reference] [Example]	Set up from \$00, \$01, \$0	front keys 9 2, \$03, \$0E, \$0F, \$1E, \$1F

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\$0A	
[Name]	Print and line feed
[Format]	ASCII LF
[i offiat]	Hex 0A
	Decimal 10
[Description]	Prints the data in the buffer and feeds one line, based on the current line spacing.
[Notes]	This command sets the print position at the beginning of the line.
[Default]	
[Reference]	\$1B \$31, \$1B \$32
[Example]	
\$0C	
[Name]	Carries out form feed after printing.
[Format]	ASCII FF
	Hex 0A
	Decimal 10
[Description]	Prints the data in the buffer and feeds in accordance with the page length specified by the command ESC C n.
[Notes]	This command sets the print position at the beginning of the line.
[Default]	
[Reference]	\$1B \$43
[Example]	
\$0D	
[Name]	Print and line feed
[Format]	ASCII CR
	Hex 0D
	Decimal 13
[Description]	When autofeed is "\$0D enabled", this command functions in the same way as \$0A,
	otherwise, it is ignored.
[Notes]	This command sets the print position at the beginning of the line.
[Default]	See the "autofeed" parameter from Setup.
[Reference]	\$0A
[Example]	
\$0E	
[Name]	Improved character designation (same as \$1E)
[Format]	ASCII SO
	Hex 0E
[Decoriation]	Decimal 14 Printing of the character is executed in expanded format
[Description]	Printing of the character is executed in expanded format.
[Notes]	 The command SO is automatically launched after printing. Same as \$1E
[Default]	Set up from front keys
[Reference]	\$01, \$02, \$03, \$04, \$0F, \$1E, \$1F
[Example]	

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\$0F	
[Name]	Standard character designation (same as \$1F)
[Format]	ASCII SI
	Hex 0F
	Decimal 15
[Description]	Printing of the character is executed in small format
	(normal).
[Notes]	• Same as \$1F
[Default]	Set up from front keys
[Reference]	\$01, \$02, \$03, \$04, \$0E, \$1E, \$1F
[Example]	
\$11	
[Name]	Places the printer ON LINE.
[Format]	ASCII DC1
	Hex 11
	Decimal 17
[Description]	Places the printer ON LINE.
[Notes]	 Only this code can be accepted independently of the status OFF LINE.
[Default]	
[Reference]	\$13
[Example]	
\$13	
[Name]	Places the printer OFF LINE.
[Format]	ASCII DC3
[i official]	Hex 13
	Decimal 19
[Description]	Places the printer OFF LINE.
[Notes]	
[Default]	
[Reference]	\$11
[Example]	ψ11
[Example]	
\$18	
[Name]	Cancel print data buffer.
[Format]	ASCII CAN
- •	Hex 18
	Decimal 24
[Description]	Deletes all the print data in the current print buffer.
[Notes]	This command sets the print position at the beginning of the line.
[Default]	
[Reference]	
[Example]	
[=]	

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\$1E							
[Name]	Enhanced character designation.						
[Format]	ASCII	RS					
	Hex	1E					
	Decimal	30					
[Description]	Printing of th	e character is executed in expanded format.					
[Notes]	 The comma 	and RS is automatically launched after printing.					
[Default]	Set up from front keys						
[Reference]	\$01, \$02, \$0	\$01, \$02, \$03, \$04, \$0E, \$0F, \$1F					
[Example]							

\$1F							
[Name]	Standard cl	naracter designation.					
[Format]	ASCII	US					
	Hex	1F					
	Decimal	31					
[Description]	Printing of th	e character is executed in small format (normal).					
[Notes]							
[Default]		Set up from front keys					
[Reference]	\$01, \$02, \$0	\$01, \$02, \$03, \$04, \$0E, \$0F, \$1E					
[Example]							

\$1B \$31			
[Name]	Set 3 mm. li	ine spacii	ng
[Format]	ASCII	ESC	1
	Hex	1B	31
	Decimal	27	49
[Description]	Sets 3 mm I	ine spacir	ıg
[Notes]			
[Default]			
[Reference]	\$1B \$32		
[Example]			
\$1B \$32			
[Name]	Set 5.5 mm	line space	cing.
[Format]	ASCII	ESC	2
	Hex	1B	32
	Decimal	27	50
[Description]	Set 5.5 mm	line spacii	ng.
[Notes]			
[Default]			
[Reference]	\$1B \$31		
[Example]			

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\$1B \$40								
[Name]	Inizialize tl	ne printer.						
[Format]	ASCII	ESC	@					
	Hex	1B	40					
	Decimal	27	64					
[Description]		Clears the data in the print buffer and resets the printer mode to the mode that was in effect when the power was turned on.						
[Notes]	 Same as I 	nardware re	eset					
[Default]								
[Reference]								
[Example]								
\$1B \$43 n								
[Name]	Page lengt	h designa	tion a	and page formatting.				
[Format]	ASCII	ESC	С	n				
	11.	40	40	_				

[•			
	Hex	1B	43	n		
	Decimal	27	67	n		
[Range]	$14 \le n \le 120$					
[Description]	This command sets the length (number of lines) of the page, and paging formatting begins. A space of three lines is left at both the top and bottom of the page.					
[Notes]	 Page formatting 	ng can	be cle	ared through the command \$1B \$4F.		
[Default]	n = 66					
[Reference]	\$0C, \$1B \$4F					
[Example]						

\$1B \$4B n1 n2

[Name]	Graphic mo	de printi	ng				
[Format]	ASCII	ESC	K	n1	n2		
	Hex	1B	4B	n1	n2		
	Decimal	27	75	n1	n2		
[Range]	1 ≤ n1 ≤ 240;	n2 = mu	te data				
[Description]		This command prints n1 bytes of data in graphic mode. The data bytes are arranged vertically starting from the left margin, but only the first seven LSBs are significant.					
[Notes]	After the last data byte, the printer prints, forward feeds the paper (by 21 dots per line) and graphic mode printing is cleared.						
[Default]	5 1		0				
[Reference]							
[Example]							
\$1B \$4F							
[Name]	Page format	ting off					
[Format]	ASCII	ESC	0				
	Hex		1B	4F			
	Decimal	27	79				
[Description] [Notes]	Cancel page	formatting	g mode	9			
	TG1260/24	460			2-62		CUSTOM

[Default] [Reference] [Example] \$1B \$69	\$1B \$43				
[Name]	Total cut.				
[Format]	ASCII	ESC	i		
	Hex		1B	69	
	Decimal	27	105		
[Description]				er operation; if there is no cutter, a disabling flag is set any ds will be ignored.	
[Notes]	 The printer waits until all the paper movement commands have been completed before executing total cut 				
[Default]					
[Reference]					
[Example]					

\$1B \$FA n xH xL y	yH yL							
[Name]	Print gra	phic bank (448 × 11	70 dots).				
[Format]	ASCII	ESC	{ }	n	хH	хL	yН	уL
	Hex		1B	FAn	хH	хL	yН	уL
	Decimal	27	250	n	хH	хL	уH	уL
[Range]	1 ≤ <i>n</i> ≤ 2							
		_, <i>yH</i> , <i>yL</i> ≤ 2						
[Description]	Prints the	graphics bar	nk from fl	ash. <i>n</i> sel	ects th	e ban	k as fol	lows:
	n		Fund	tion				
	1	Print flash ba	nk logo 1					
	2	Print flash ba	nk logo 2					
		256 specifie 256 specifie		•	•)).	
[Notes]		•						e command. · only prints 1170 - <i>xL</i> + (<i>xH</i>
[Default]								
[Reference]								
[Example]		go1 from flas \\$01 \$00		otline 100 \$00	to dotl \$C7	ine 29	9, senc	1:
\$1C \$C0 \$34								
[Name]	Total cut	and autom	atic pape	er moving	g back			
[Format]	ASCII	FS	{} 4					
	Hex	1C	C0 3	4				
	Decimal	28	192 5	2				
[Description]	This command enables cutter operation and executes a total cut and automatic paper moving back; if there is no cutter, a disabling flag is set any subsequent cutting commands will be ignored.							
[Notes]	The printer waits until all the paper movement commands have been completed before executing total cut							
CUSTØN	A	2-63						TG1260/2460

[Default] [Reference]

[Example]

\$1D \$49 n

[Name] [Format]

Transmit pr	Transmit printer ID.						
ASCII	GS	I	n				
Hex	1D	49	n				
Decimal	29	73	n				

[Range] [Description] Decimal 29 73 n $1 \le n \le 3, 49 \le n \le 51$ Transmits the printer ID specified by n as follows:

[n	Printer ID	Specification
	1, 49	Printer model identification	\$6D (TG2460)
	2, 50	Function identification	See following table
	3, 51	ROM version identification	Depending on the ROM version (4 char)

n = 2, Function identification

Bit	Off/On	Hex	Decimal	Function
0	Off	00	0	2-byte character codes not supported
4	Off	00	0	Autocutter not supplied
	On	02	2	Autocutter supplied
	Off	00	0	Non-label thermal paper
2	On	04	4	Label thermal paper
3	-	-	-	RESERVED
4	Off	00	0	Fixed at 0
5	-	-	-	RESERVED
6	-	-	-	RESERVED
7	Off	00	0	Fixed at 0

[Notes]

• This command is executed when the data is processed in the reception buffer. There may therefore be a time lag between receiving the command and transmitting the data, depending on the status of the reception buffer.

[Default] [Reference] [Example]

\$1D \$7C n							
[Name]	Set printing density.						
[Format]	ASCII	GS	{ }	n			
	Hex	1D	7C	n			
	Decimal	29	124	n			
[Range]	$0 \le n \le 4, 48$	$0 \le n \le 4, 48 \le n \le 52$					
[Description]	Sets the prin	Sets the printing density. <i>n</i> specifies the printing density as follows:					



n	Printing density	
0, 48	Very light	
1, 49	Light	
2, 50	Normal	
3, 51	Dark	
4, 52	Very dark	

[Notes]

[Default] [Reference] [Example] \bullet The printing density is cleared at default value when the printer is reset or the power is turned off. n = 2

3.1 TECHNICAL SPECIFICATIONS

 Table 3.1 gives the main technical specifications of the printer. Tables 3.2, 3.3, 3.4 give specifications of every

 emulation available.

 (Tab.3.1)

Description	TG1260	TG2460	
Print method	Thermal fixed head (8 dot/mm)		
Resolution	204DPI (8 dot/mm)		
Paper specifications	l		
Type of paper	Thermal rolls heat sensitive s	side on outside of roll	
Recommended type of paper	KANZAN KF50 (55g/m ²) or I	MITSUBISHI PG5075	
Paper thickness	0.063 ± 0.005 mm (KF 50)		
Paper width	60 mm ± 0.5 mm		
External roll diameter	Max 100 mm (with external paper	holder support)	
Internal roll core diameter	13 mm		
Core thickness	2mm (+1mm)		
Core type	Cardboard or plastic		
Sensor	Head temperature, paper end, paper jam, ticket presence on output OPTIONAL: external near paper end.		
Print direction	Normal, 180°		
Print format	Height/ width from 1 to 4, bold, negative, uderlined, italic.		
Character fonts	ASCII standard, EPSON, International.		
Standard interfaces	Serial RS232. USB		
Baude rate	From 1200 to 115200 bps		
Printing speed	45 mm/sec (normal) 36 mm/sec (low)	140 mm/sec (normal) 110 mm/sec (low)	
Power supply	12 V ± 10%	24 V ± 10%	
Current absorption			
Operating absorption	2,5 A	3 A	
Peak absorption	3 A	4 A	
Stand by	0,05 A	0,1 A	
Environmental conditions			
Operating temperature	-20 ÷ +70°C		
Operating humidity	10% - 80% w/o condensation		
Storage temperature/ humidity	-20 ÷ +70°C / 10% ÷ - 90% Rh		
Weight	625 gr		
Options	 Adjustable paper holder support with near paper end sensor Paper dispenser unit (only for autocutter model) 		
CUST@M 3-1 TG1260/2			

3. TECHNICAL SPECIFICATIONS

Note ⁽¹⁾ : Referred without paper roll and model with plastic front panel.

			(Tab.3.2)
ESC/POS™ EMULATION			
Number of columns	32	42	56
Printing speed	·	·	
Characters / sec	960	1260	1680
Lines / sec	30	30	30
Character (L x H mm)		·	
Normal	1,7 x 3	1,2 x 3	1 x 3
Print direction		Normal e Reverse	
Character set	3		

(Tab.3.3)

CUSTOM 24/42 EMULATION		
Number of columns	24	42
Printing speed		
Characters/sec	520	910
Lines/sec	21,6	21,6
Character (L x H mm)		
Normal	2 x 3	1.2 x 3
Print direction	Normal and Reverse	
Character set	4	

(Tab.3.4)

CITIZEN EMULATION		
Number of columns	24	40
Printing speed		
Characters/sec	520	867
Lines / sec	21.6	21.6
Character (L x H mm)		
Normal	2 x 3	1.2 x 3
Print direction	Normal and Reverse	
Character set	2	



3. TECHNICAL SPECIFICATIONS

3.2 DIMENSIONS

3.2.1 TG2460-U-A









3.2.2 TG2460-U-N







3. TECHNICAL SPECIFICATIONS

3.2.3 TG2460-U-M



(Fig.3.3)

NOTE: the figures in this part show the USB interface model but the dimensions are the same even for the serial RS232 interface model.

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4. CHARACTER SET

4.1 CHARACTER SET

The printer has seven sets of 224 character each one. In the following figures are shown the examples:

ESC/POS™ 32 columns	ESC/POS™ 42 columns	ESC/POS™ 56 columns
D123456789ABCDEF 2 !"#\$%&`()*+,/ 3 D123456789:;<=>? 4 @ABCDEFGHIJKLMNO 5 PQRSTUVWXYZ[\]^_ 6 `abcdefghijklmno 7 pqrstuvwxy2[] [°] 8 ÇüéääääçêëëĭîìÄA 9 EæÆôöôûùÿöü¢£¥Ptf A áíóúñNaQ¿c¬½½;«» 8	D123456789ABCDEF 2 !"#\$%&'()#+,/ 3 D123456789:;<=>? 4 @ABCDEFGHIJKLMNO 5 PQRSTUVWXYZ[\]^_ 6 `abcdefghijklmno 7 pqrstuvwxyz{ } ⁻ 8 CuéaäääçêêêYilAA 9 ÉæfôöôûûýDü¢f¥Rf A áióúñѪ⁰¿¬½l;«» 8 ⁽ % 4 mai mai mai] 0 ¹ / ₄ m ⁴ ⊧µm ⁴ ⊧µm ⁴ ⊨ 1 ² / ₄ m ⁴ ⊧µm ⁴ ⊨ 0 ¹ / ₄ m ⁴ ⊧µm ⁴ ⊨ 1 ² / ₄ m ⁴ ⊨ 1	0123456789ABCDEF 2 !"\$\$28'()*,/ 3 0123456789:;<=>? 4 @ABCDEFGHIJKLMMD 5 PORSTUWWXYZ[\] 6 abcdefghijklmno 7 pqrstuwwyz{l} 8 ÇideääääçeeiiiiAA 9 £æföönüüjüUtefYNf 9 áiúüñNª0;31; 8

DPT 24 FONT A

0123456789ABCDEF

2 3	!" #\$ %&`()++,/ 0123456789::<<=>?
4	@ABCDEFGHIJKLMNO
5	PQRSTUVWXYZ[\]^_
6	¢abcdefghijk mn0
7	pqrstuvwxyz°±µΩ≠
8	ÇüéâäàâçêëèïliÄA
9	ĖæÆðöðûùÿÖÜ¢£§Pif
Α	álóúñNª°2−¬½¼¦«»
в	░▓▓│┥╡╢╖╕╣║╗╝╜╛┐ └┵┬┝┯┽╞╟╚╔╩╦╠═╬╧
С	┕┵┯┝╼┿╞╟╚╔╩╦╠═╬╧
D	╨╤╥╙╘╒╓╫╪┘┌ ╗ _┻ ╏╏ ^{╼╸}
E	αβΓπΣσμτΦ9Ωδ∞φ∈∩
F	$\equiv \pm \geq \leq \int J \div \approx \circ \cdot \lambda \sqrt{n^2} \Delta \uparrow$

DPT 42 FONT A

0123456789ABCDEF

- !"#\$%&`()*+,-./ 2 3 0123456789:; <=>? @ABCDEFGH1.JKLMNO 4 @ABCDEFGHIJKLMN0 5 PORSTUVWXYZI\1^ 6 ΦabcdefghijKlmno 7 pqrstuvwxyz°±μΩ≠

DPT 24 FONT B

0123456789ABCDEF

2	!"#\$%&`()*+,/
3	0123456789:;<=>?
4	@ABCDEFGHIJKLMNO
5	PQRSTUVWXYZ[\]^_
6	`abcdefghijklmno
7	pqrstuvwxyz{ }~o
8	АВВГДЕЖЗИЙКЛМНОП
9	РСТУФХЦЧШШЪЫБЗЮЯ
А	ао́вгде жз ийКлмноп
в	▓▓│┤╡╢╖╕╣║╗╝╜╛┐ └┵┬┝─┼╞╟╚╔╩╦╠═╬╧
С	└┵┯╞╼┼╞╟╚╔╩╦╠═╬╧
D	╨╤╥╙╘╒╓╫╪┘┌ ╝ ╔╏║
E	РСТУФХЦЧШШЬЫЬЗЮЯ
F	□±≥≤∫J÷≃°√n²∭↑

DPT 42 FONT B

0123456789ABCDEF

2	!"#\$%&´()*+,/
3	0123456789:;<=>?
4	@ABCDEFGH1JKLMNO
5	PQRSTUVWXYZ1\]^
6	`abcdefghijklmno
7	pgrstuvwxyz{}}~a
8	AGBEITERSVÄKIMHOD
9	РСТУФХЦУШШЬЫЬ ЗЮЯ
A	аовглежзиякляноп
В	▓│┤╡╢╖╕╣║╗╝╜╛┑
С	└┵┭┝╾┽╞╟╚╔┹┱╠═╡╞╧
D	╨╤╥╙╘╒╓╢┿┘╓┻┛┣
E	РСТУФХЦУШЧЬЫБ ЗЮЯ
F	[]±≥≤[];≃°√°²∭İ

CUST@M

4. CHARACTER SET

Blank page



A.1 ACCESSORIES

A.1.1 Power supply

A.1.1.1 Power supply for TG2460

The figure below illustrates the power supply provided by Custom to be used for printer operation.



PPSPS-100-24V	Switching power supply 24V÷100W		
Imput specification	Input voltage		85V ÷ 264
	Current		0A ÷ 4,5A
	Input frequency		47 Hz ÷ 63 Hz
Output specifications	Output volatge		24V
	Output current	Min. Max.	0A ÷ 4,5A
	Efficiency	Min	80%
Enviromental conditions	Operating tempe	erature	0°C ÷ 70°C
	Humidity		20% ÷ 85% Rh (w/o condensation)
	Storage tempera	ture/	-10°C ÷ 75°C/
	Humidity		10% ÷ 95% Rh (w/o condensation)

Protection devices: Shortcircuit, overload and overvoltage.

CUST@M	A-1	TG1260-2460
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A.1.1.1 Power supply for TG2460

The figure below illustrates the power supply provided by Custom to be used for printer operation.



(Tab.A.1.2)

PPSPS-070-12V	Switching power supply 12V÷070W	
Input specification	Input voltage	85V ÷ 264
	Current	0A ÷ 1,8A
	Inpout frequency	47 Hz ÷ 63 Hz
Specifiche di uscita	Output voltage	12V
	Output current Min. Max.	0A ÷ 6,0A
	Efficency Min	80%
Condizioni ambientali	Operating temperature	0°C ÷ 70°C
	Humidity	20% ÷ 85% Rh (w/o condensation)
	Storage temperature/ Humidity	-10°C ÷ 75°C/ 10% ÷ 95% Rh (w/o condensation)

Protection devices: Shortcircuit, overload and overvoltage.

G1260-2460



A.1.2 Adjustable paper holder support kit

For the printer is available a swinging paper holder support kit (see fig. A.2). This accessory allows to use bigger diameter paper rolls (max 80mm).

PCXSP-TG2460 Paper holder support Kit and QFC sensor

The kit is already assembled as shown in fig A.2.

Paper holder support kit:

- 1- Paper holder support
- 2- Paper roll pin
- 3- Near paper end sensor board
- 4- Two fastening screws of the paper holder support to the printer frame (M3x6)
- 5- Two disks for the paper roll containment



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Assembling instructions

The paper holder support positioning isn't fixed but adjustable on 3 different positions: back, lower and upper as shown in fig. A.3.



TG1260-2460



Fastening the paper holder support in upper position

Fix the paper holder support to the printer frame by the two fastening screws on issue in the kit. Screw them where shown in fig. A.4 and connect the near paper end sensor cable to the printer connector.



WARNING: Check the paper roll pin is assembled with the beveled side turned in the low position (see the paper roll containment disks part). If this condition isn't verified, unloose the fastening screw of the pin to the paper holder support and locate it in the right position.



Fastening the paper holder support in back position

Fix the paper holder support to the printer frame by the two fastening screws on issue in the kit. Screw them where shown in fig. A.6 and connect the near paper end sensor cable to the printer connector.



WARNING: Check the paper roll pin is assembled with the beveled side turned in the low position (see the paper roll containment disks part). If this condition isn't verified, unloose the fastening screw of the pin to the paper holder support and locate it in the right position.



Fastening the paper holder support in lower position

Fix the paper holder support to the printer frame by the two fastening screws on issue in the kit. Screw them where shown in fig. A.8 and connect the near paper end sensor cable to the printer connector.



WARNING: Check the paper roll pin is assembled with the beveled side turned in the low position (see the paper roll containment disks part). If this condition isn't verified, unloose the fastening screw of the pin to the paper holder support and locate it in the right position.



Using the paper roll containment disks

The paper holder support kit is equipped with two paper roll containment disks. The disks operates to keep the roll paper in the right position. They are realized with holes, which let the near paper end sensor on the paper holder support works correctly, and with a slot, which hinder the disks from rotating around their own axises. In this slot must be inserted the special paper roll pin feather, which has to be assembled turned toward the lower position to avoid paper jam. In the following figure A.10 is shown how to assemble the paper roll containment disks on the paper roll pin.



NOTE: These remarks are valid for all the printer models available.



(Fig.A.10)





Dimensions of printer with paper holder support

TG2460-U-A model (USB interface, metal front panel and autocutter model)



(Fig.A.11)

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TG2460-U-N model (USB interface and plastic front panel)



(Fig.A.12)

A-10



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TG2460-U-M model (USB interface and metal front panel without autocutter)





(Fig.A.13)

	U	5		P	M
-	~	-	-		

A.1.3 Paper dispenser unit



(Fig.A.14)

Assembling paper dispenser unit:











A.2 SPARE PARTS

Paper rolls

RCT60X55	60mm thermal paper roll	(Tab.A.4)
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C	16	Te	

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