



swift STR500E Line Thermal Printer User Manual

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SWIFT®

swift STR500E Line Thermal Printer



Introduction

STR500E printer is a new type line thermal printer, it features in fast speed print, low print noise, high reliability, perfect print quality and ribbon needless avoiding the vexation of regular maintenance.

STR500E printer: small in outline dimension, simple operation, and extensive application, especially suitable for commercial cash register, PC-POS, bank POS and all kinds of receipts print.

Chapter 1 Characteristic and Specification

1.1 Printing specification

- Printing method: direct thermal
- Printing paper width: 57.5 ± 0.5 mm
- Printing density: 8 dots/mm, 384 dots/line
- Printing speed: approx. 70mm/s (max) (25% printing density)
- Reliability:

Printing head life: 60km

Using condition:

- Print 12 × 24 ASCII characters, print 50 lines each time, intermittent print repeatedly
- Each dot-line printing at the same time should not exceed 25%, each character-line and one dot vertically printing repeatedly should not exceed 11 times
- Use specified thermal paper
- Valid printing width: 48mm

Printing Paper

- Paper Type: thermal paper 57.5xΦ80 mm MAX
- Paper Thickness 0.06-0.08mm
- Paper Loading: Easy Paper Loading
- Paper Cutting: Manual Paper Cutting

Printing Font

- ANK Character set:
12×24 dots 1.5 W ×3.00 H mm;
- GB2312-80(Chinese):
24×24 dots 3.00 W ×3.00 H mm.

Interface

- LAN interface:
8- pins RJ-45 socket
- USB interface
Standard B type USB interface.
- Cash drawer control
DC12V 1A 6-pin RJ-11 socket.

Printing Control Command

- Character print command: supports double width and double height printing of ANK characters, user-defined characters and Chinese characters, the character line spacing is adjustable.
- Graphics print command: supports the printing of bit map graphics with different density
- GS bar code print command: supports UPC-A UPC-E EAN-13 EAN-8 CODE39 ITF25 CODABAR CODE93 CODE128 bar code print.

Power Supply

- DC12V±10 2A(one core)

Operation Environment

- Operation environment temperature: 0 50°CRelative humidity: 10 80
- Storage temperature: -20 60°C
Relative humidity: 10 90%

Outline Dimension

- Dimension: 200 L ×145×(W)×120(H) mm
- Weight: 898g (not including paper)

Chapter 2 Installation and Operation

Printer Appearance



Paper Installation

STR500E adopts 57.5 width thermal paper.

The steps of thermal paper installation are as the following:

1. When there is no paper in the print head, pls don't press FEED button to avoid affecting the life of printing head. Opening open button to open the case cover and change paper.
2. After paper case cover is closed, pls do not draw the paper forwards or backwards with hands.

Interface Connection

LAN Interface

Standard RJ-45 ETHERNET interface

USB Interface

Standard B type USB interface

Cash Drawer Interface

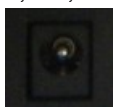
The cash drawer interface of STR500E is RJ-11, 6pin socket, as below,

The pin assignment of the cash drawer interface is as follows:

Pin No.	Signal	Direction
1	Chassis Ground	—
2	Cash drawer driver signal	Out
3	Cash drawer on/off status signal	In
4	+12V DC	Out
5	N.C	—
6	Cash drawer on/off status signal ground	—

Power Connection

STR500E uses external power supply as 12VDC \pm 10 , 2A, one core model, as below:



Buttons and Indicators

Power switch

Control on/off status of power. is off status. Press “-” is on status.

Feed Button

FEED is paper feed button. Print command can enable or disable

FEED status to be on or off. Under enable status, hold down FEED , start paper feeding, release the button paper feeding stops.

Opening Upper Cover Button

Hold down opening upper cover button to open the case cover.

Power indicator light (green)

If the power is on, the power indicator light will be on.

Status Indicator light and Buzzer

During normal working, red STATUS light is off. If the working status is abnormal, the red indicator light will flicker to alarm error. Setting Buzzer can also alarm the abnormal working status.

Light status			Buzzer status	Printer Working status
Off			Off	Normal
Flicker 1 time and stay 1s off			Alarm 1 time and stay 1s	Paper out and waiting for loading paper
Flicker 2 stay 1s off	times	and	Alarm 2 times and stay 1s off	Print head is overheated and just waiting for back to normal temperature.
Flicker 3 stay 1s off	times	and	Alarm 3 times and stay 1s	Thermal print head damaged, needs to repair.

Self-test

The self-test can check the condition of printer. In the self-test, software version, interface type, characters, etc will be printed. If the printer prints out the self-test receipt correctly, it means the printer works normally except the interface with host. Otherwise it needs to repair.

Method of self-test: Holding down FEED button and turn on the power, the red indicator light will flicker at 1 time/s, within 3 times then release the button, self-test begins automatically. If the self-test receipt can be printed correctly, it means except the interface, the other parts of printer are all well.

Hexadecimal Dump

Holding down FEED button and turn on the power, the red indicator light will flicker at 1 time/s, after 3 times then release the button, the red light will go on flicker 3 times, then the printer will print out 3 lines information as bellow:

Hexadecimal Dump

To terminate hexadecimal dump, Press FEED button three times.

Under this mode, all the input will print out as Hexadecimal data. Put the FEED button will feed one line each time. 3 times together will print out as bellow:

*** Completed ***

Then quit the Hexadecimal Dump print mode.

Upgrade Mode

Holding down FEED button and turn on the power, the red indicator light will flicker at 1 time/s, after 3 times then release the button. The printer enters into Mode Choosing Status. Then press LF button 5 times and the time distance between two times must be within 3s. The indicator will flicker at 1s on and 1s off status. At this time, the printer enters into Upgrade Mode.

Chapter 3 Printing Driver Installation

Please refer to STR500E driver CD. Name of driver software is SP-DRV211. During installing driver software, choose printer model "58 thermal series". About other operation, pls refer to the detailed installation manual.

Appendix 1 Performance Index


- Print method: Direct thermal
- Print width: 57.5 ± 0.5mm
- Valid print width: 48mm
- Print density: 8 dots/mm, 384 dots/line
- Print speed: 70mm/sec (25% printing density)
- Reliability:
- Print head life: 60km
- Using condition:
 - Print 12 × 24 ASCII characters, print 50 lines each time, intermittent print repeatedly
 - Each dot-line printing at the same time should not exceed 25%, each character line and one dot vertical printing repeatedly should not exceed 11 times
 - Use specified thermal paper
- Paper Type: Thermal Paper

- Thermal paper roll: Width 57.5×Φ80 mm MAX
Outer Diameter 80mm max.
Inner Diameter 13mm min.
Thickness 0.06~0.08 mm
- Print Font: IBM Character set II (ANK):
12×24 dots 1.5 W ×3.00 H mm; GB GB2312-80(Chinese):
24×24 dots 3.00 W ×3.00 H mm.
- Cash drawer control
DC12V±10 1A 6-pin RJ-11 socket.
- Power Supply
DC12V±10 2A A-1009-3P socket
- Operation Environment
Operation temperature: 0 50°C
Relative humidity: 10 80 Storage temperature: -20 60°C Relative humidity: 10 90°C

Warning

This is a class A product. In the domestic environment, this product may cause radio interference, in which case the user may be required to take adaptable measures.

Documents / Resources

<div>SWIFT[®] STR500E Line Thermal Printer</div> <div></div>	<p>swift STR500E Line Thermal Printer [pdf] User Manual</p> <p>STR500E, Line Thermal Printer, STR500E Line Thermal Printer, Thermal Printer, Printer</p>
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