

# TX-3100 /TX-3100S / TX-3100RS Series Fan Free Terminal User's Manual

**POSIFLEX**



## FCC Notes:

Rev.: A0

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with limits for a Class A digital device pursuant to subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures to correct the interference.

## Warranty Limits:

Warranty terminates automatically when any person other than the authorized technicians opens the machine. The user should consult his/her dealer for the problem happened. Warranty voids if the user does not follow the instructions in application of this merchandise. The manufacturer is by no means responsible for any damage or hazard caused by improper application.

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## **ALERT TO OUR HONORABLE CUSTOMERS:**

Please always read thoroughly all the instructions and documents delivered with the product before you do anything about it. Don't take any premature action before you have a full understanding of the consequences.

### **DAILY MAINTENANCE GUIDE**

For regular cleaning of the TX systems, please use only soft haired brush or dry soft cloth. You may use moist soft cloth to remove stains when necessary. Apply only suitable amount of mild neutral cleaner for obstinate stains. Please note that never use Acryl dissolving solvent or Polycarbonate dissolving solvent. You may apply ammonia-based glass cleaner only on the screen surface.

### **ABOUT THIS PRODUCT**

Posiflex TX-3100/TX-3100S/TX-3100RS series presents a whole new generation POS terminal which with the most reliable FanFree system and carrying a brilliant performance to user in order to face the busiest situation. TX-3100/TX-3100S/TX-3100RS Series applies Intel Pine View CPU technology; fast speed Ethernet as well as plenty of connects ports of USB, Serial, VGA and CR ports and designed with gorgeous appearance and small footprint for counter space saving. Furthermore, the TX-3100/TX-3100S/TX-3100RS.

In addition, TX-3100/TX-3100S/TX-3100RS series terminal assist small and medium business to serve customer effectively, fast and precise. This small and fully functional system is suitable for various kinds of segments, such as general retailer, hospitality and restaurant with very limit space.

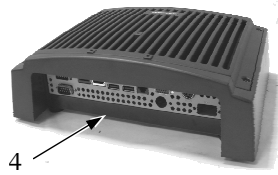
- High performance Pine View CPU with single core or dual core selectable.
- The most reliable Fanfree structure for harsh environment.
- Supports Win POSReady, Win7 and Linux environment
- Supports SSD (Solid-State Drive) Data Storage Device or HDD
- External power support for COM1/2/3 and VGA ports for TX-3100/TX-3100S/TX-3100RS
- CR port control maximum 2 cash drawers.
- Support wall mount application and VESA 75mm standard.

# INTRODUCTION

## PRODUCT PICTURES



TX-3100/ TX-3100RS



TX-3100S

## PARTS IDENTIFICATION

1. Power switch
2. LED indicator for power.
3. Cable exit (From I/O plate)( TX-3100/ TX-3100RS only)
4. I/O plate(TX-3100S)

## PRODUCT FEATURES

### Standard Features:

Models	TX-3100 / TX-3100S / TX-3100RS
<b>Item</b>	
CPU	Pine View D-SC 1.8G , 1MB Cache (Dual core)

DRAM Memory	DDR3 800Mhz, Max 4GB (SO-DIMM X 1)
Chipset	Intel ICH8M
VGA port	D-SUB 15Pin, support +12V power
Serial port	Max.4 ports, DB9 X 3 (COM1 for not supporting with +5V and +12V power, COM2 , optional COM4 for supporting with only +5V ), COM3: RJ-45 X 1 on the I/O Plate
CR PORT	x1, control 2 CRS
Standard USB PORT	4 port on the I/O plate
ETHERNET port	10/100/1000 MB
Storage device	2.5" SATA HDD 160G or SSD
Power switch	Soft Switch
Mechanical installation	Desk Top or Wall Mount
Power saving	Suspension mode
Power supply	12V DC power adaptor, 60W
Indicator LED	Power ON/ standby, bi-color LED, Ethernet Link LED on Ethernet Connector
OS support	Linux , XP Pro, POSReady, Win 7

Table: Summary of features

### Option Items:

**Note:** The underlined items in the following list means that option must be set prior to shipment from the factory. The rest items can be set by the dealers.

- a) DDR3 SODIMM memory expansion up to 4GB max.
- b) SATA SSD kit (SSD can't coexist with SATA HDD in main unit).
- c) Integrated upgrade kit: WB-6812 Wall mount bracket.
- d) Preload OS Windows XP Pro, Win 7, POS Ready or Linux
- e) Wireless LAN adaptor in USB interface
- f) RJ-45 to DB9 connector cable.
- g) PS/2 Key Port

# INSTALLATION GUIDES

## Hardware Power Switch

The power switch located in the front bezel of main unit. It is a pushbutton switch and controls the power on/off of the whole system.



This power switch turns the system on when pushed only. This switch turns the system off when pushed again during power on status. However, if the system hangs due to any reason such as software resource conflict, a simple push on the switch in 10 sec may turn off the power.

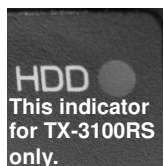
**Note: There must always be at least 10 seconds waiting before switching on again once the system is powered off successfully.**

## Indicators of power, status and HDD

There is power indicator serving for several purposes at front bezel. For HDD indicator (For TX-3100RS only), it will flash orange light when the HDD is operating. The relationship between the indicator status and other conditions of “PW LED” is summarized in following table:



Indicator	Terminal Status	LED colour
Power Status	Standby	Orange
	Power On	Blue



**CAUTION: Before any installation or cable connection to the set, please always make sure that the system is turned off and the external power source to the set is removed to prevent electric hazard! Never touch any metal pin in the connectors or circuits to avoid high voltage hazard or electrostatic discharge damage unless the operator is well grounded. Failure to do the above will void the product warranty!**

## Display Issues

### VGA Port

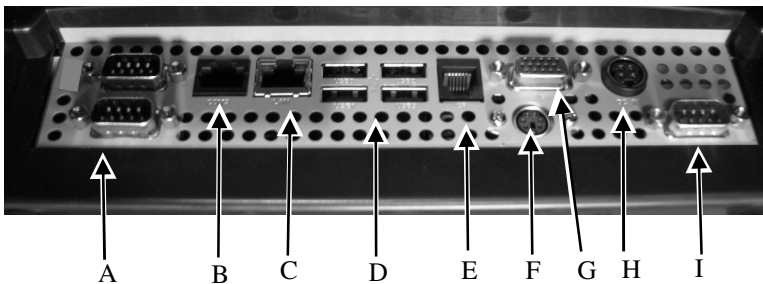
The VGA port in the TX-3100 series system supports either a separately connected LCD monitor or touch monitor. To support the DC power to the display monitor, it required a qualified technician to set up through BIOS setting. **Do not connect other monitor to this port before the power in this port is disabled.**

### I/O Plate

Please hold the base and pull up the terminal **carefully** than you will see the I/O plate (For TX-3100/TX-3100RS Only).



### I/O Plate View:



- A: 2x Serial Port (RS-232) COM1 & 2.
- B: 1x Serial Port (RJ-45) COM3.
- C: 1x LAN Port.
- D: 4x USB Ports.
- E: 1x CR Ports.
- F: 1x PS/2 Key Board port (Optional).
- G: 1x VGA Port (D-sub, 15 PIN)

H: DC Power connector.

I: Serial Port (RS-232) COM4 (Optional).

In TX-3100//TX-3100S/TX-3100RS series system COM1,2, 3 can supply a +5 V DC through system BIOS and jumper setting and supply +12V by jumper setting. The VGA port can delivery +12 V power through system BIOS setting for Posiflex LCD display monitor. **Nevertheless, except Posiflex peripheral device, do not connect any other device to this port before the power in this port is disabled.**

**CAUTION: Please turn off the system power first! Then hold the base and move the terminal carefully.**

### **Connecting Cables**

To have the terminal ready for operation, please connect all required cables to the appropriate connectors. Please make sure that each connector is connected to the correct port with the correct orientation. **Damages due to incorrect connection or orientation are not covered by product warranty!**

Some connectors like the LAN or CR connector have to be gently inserted until a click is heard. It is recommended that connectors such as the COM port and VGA connector be screwed into place once seated. Please make sure that each connector has to be connected to the right device in the right way.

**CAUTION: On doing any insertion or extraction of any connector, please always hold the connector head itself instead of pulling on the cable wire. Failure to do this could damage the cable and jack that is considered as an artificial destruction and is not covered by the warranty.**

## Connecting Cash Drawer (Option)

The RJ11 connector in I/O area of a TX-3100/TX-3100S/TX-3100RS system can be used for controlling most of the common cash drawers available on the market.

However, it is most recommended to use Posiflex CR-2000 or CR-2200 or CR-3100 or CR-3200 or CR-4000 or CR-4100 or CR-4210 or CR-6310 for best compliance to operate the opening mechanism and to monitor the drawer open status.

Use the cable supplied with the cash drawer for connection to the CR port in TX system. This cable has a 6-pole plug at one end and an 8-pole plug at the other. The 8-pole plug should be inserted into the connector marked: "signal cable from POS Printer" at the rear of the cash drawer. The 6-pole plug should be inserted in the connector marked "CR" found in the main connection area in the system.

## Wall Mount Application

In order to present in clearly organized visuals and freeing up valuable desk space, TX-3100/TX-3100S/TX-3100RS series support wall mount application and VESA 75mm standard. After screw-fit the upgrade kit WB-6812 bracket, TX-3100/TX-3100S/TX-3100RS can apply mounting function and VESA standard application. For installation step, please refer to the WB-6812 installation guide.



## System Recovery

For TX systems preloaded with Windows POS Ready / Win 7 / Linux on HDD or Solid State Drive, Posiflex provides recovery DVD delivered with the terminal for the preloaded operating system. **The System Integrator shall take care of software restoration after OS recovered.** A Posiflex supplied USB interface DVD drive will be required for such action. Other brand DVD-ROM drive may require its own driver different from what supported in the recovery DVD.

**Please use the recovery DVD in rescue operation only. Using it otherwise may wipe out whatever stored in the storage device!** All upgrade devices



drivers needed for manual installation in usual way are available in the subfolder “\drivers” in OS recovered HDD and the latest versions of these required drivers will be available on our web: <http://www.posiflex.com>. Then follow instructions from your system integrator for software recovery.

## **Operating System Installation**

This product is highly professionalized equipment. The installation of an OS into a machine without any preloaded OS could be a major difficulty for average user or obstacle by possibly unintentional negligence even for PC veterans to accomplish such a task. Therefore, OS installation into a system without preloaded OS is highly discouraged. Posiflex Technology, Inc. shall not be responsible for any technical support to questions on this aspect.

## **APPLICATION ENVIRONMENT**

It is **very** important that you check the following operational guidelines:

### **Ventilation**

This terminal must **NOT** be operated in an environment with restricted ventilation. There must be at least 25 mm air clearance around any top or side ventilation holes with a free flow of air around the unit at **ALL** times for the installation.

### **Operating Environment**

The equipment must not be operated or stored in extremes of both temperature and humidity/moisture. (Operating range 0°C to 40°C and up to 80% humidity – none condensing, max. wet bulb 26°C)

### **Power Supply**

The operating voltage range of the power adaptor should cover the local power supply for proper operation. The power cable, the power outlet and any power fusing arrangements must conform to local safety regulations.

Please never do any connection / disconnection when system is still powered on. Please always keep the external power adaptor in a free air circulation.

## Automatic Power on Control

The system may also turn on according to some preset conditions such as Modem Ring Up and Alarm Clock Wake Up or LAN Wake Up.

When the TX system is turned off after a successful boot up, the preset automatic power on functions will keep monitoring for the preset conditions and turn on the system when the preset conditions are met.

Please notice that if the TX system is improperly turned off before a complete boot up procedure, the above preset power on control functions will be disabled until next turning off after a complete boot up.

## Storage Device

The standard system storage device is 2.5" SATA HDD in the main unit. This device can be replaced with an option SATA SSD HDD.

## TECHNICAL MANEUVERS

Some technical maneuver in TX-3100/TX-3100S/TX-3100RS series such as serial COM port +5V/+12V power supply settings is supported in system jumper setting. However, such support is limited to the application of specific Posiflex peripherals and must be disabled when the Posiflex peripherals are disconnected. **Failure to follow the discipline would result in electric or fire hazard and such consequences are not covered by product warranty!**

The rest applicable technical maneuvers include system CMOS data reset, system reset, DRAM upgrades and installation of optional SATA SSD. All these technical maneuver operations require purchase of applicable Technical Manual from Posiflex or consultation from Posiflex authorized dealers and should be handled only by a **qualified technician**.

