

TX-4200/4200E

Fan Free Terminal

User's Manual

Rev.: Original

POSIFLEX



FCC Notes:

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 B 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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P/N: 14520900010

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.

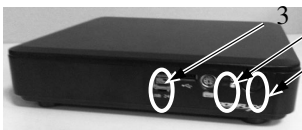
ABOUT THIS PRODUCT

TX-4200/4200E Series is a multi-purpose controller that can be ideal for various applications. With a compact housing, Intel Cedar view dual core processor, standard VGA + HDMI display interface, mini-PCIe expansion slot for WIFI, PS/2 port, VESA mounting and more, TX-4200/4200E Series is so versatile that it can be used as a full fledge POS Box, a Kitchen Video System (KVS) controller and a Digital Signage controller.

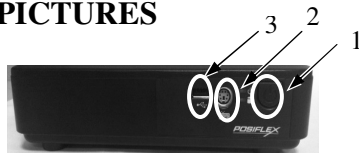
- The most reliable Fanfree structure for harsh environment.
- Supports Win POSReady, Win7, Win XP pro and Linux environment.
- Supports SSD (Solid-State Drive) Data Storage Device or HDD.
- POS system for power saving (Suspension Mode).
- External power support for COM and VGA ports.
- CR port control maximum 2 cash drawers.
- Mini-PCI-E without USB port for TX-4200E.
- Desktop or Wall Mount Installation.
- TX-3000 VGA daughter card for 2nd VGA display.
- Option Power USB board to support 24V power USB for TX-4200E only

INTRODUCTION

PRODUCT PICTURES



TX-4200E Front View



TX-4200 Front View



TX-4200E Rear View

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TX-4200 Rear View

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PARTS IDENTIFICATION

1. Power switch.
2. LED indicator for power and SSD indicator.
3. Power USB 24V port (TX-4200E)/USB port (TX-4200)
4. I/O plate (TX-4200/4200E) on the rear side.

PRODUCT FEATURES

Standard Features:

	TX-4200E	TX-4200	
ITEM	SPECIFICATION	SPECIFICATION	Remarks
CPU	Intel Cedar View D2550 1.86G, 1M Cache, Dual Core	Intel Cedar View D2550 1.86G, 1M Cache, Dual Core	
Chipset	Intel NM10	Intel NM10	
VGA port	D-SUB 15Pin -1	D-SUB 15Pin -1	support +12V
LCD display	N/A	N/A	
DRAM memory	DDR3 1066, SO-DIMM x 1 , Max 4GB	DDR3 1066, SO-DIMM x 1 , Max 4GB	
HDMI port	x1, on the I/O Plate	x1, on the I/O Plate	
Parallel port	x1	x1	Need extension cable (option)
PS/2 KB	Yes, on the front side	Yes, on the front side	

Serial port	DB9 X 2, RJ-45 X 2 on the I/O plate, COM5 & COM6 through special convert cable.	DB9 X 2, RJ-45 X 2 on the I/O plate	COM 1/2/3/4 reserved + 5V power enable by software setting, COM5/COM6 5V BY Jumper Setting, COM1/2/3/4/5/6 reserved +12V by jumper setting
Extension slot	Mini-PCI-E without USB port	N/A	reserved for external WiFi antenna
CR port	Yes, one port control 2 CRs on the I/O Plate	Yes, one port control 2 CRs on the I/O Plate	
Standard USB port	6 ports, 5 ports on the I/O plate, optional one 24V power USB Port on the front side	6 ports, 5 ports on the I/O plate, 1 port on the front plate	Power USB card TX-4200_24V must be installed for power USB FUNCTION (option)
Audio port	Line out & 2W internal Speaker	Line out	
ETHERNET port	10/100/1000 Mb x 1	10/100/1000 Mb x 1	
Storage device	2.5" SATA HDD or SSD	2.5" SATA HDD or SSD	
Power switch	Soft switch	Soft switch	On front panel
Mechanical installation	Desk top or VESA Wall mount	Desk top or VESA Wall mount	VESA mount 100 x 100
Power saving	Suspension mode	Suspension mode	
Power supply	12V DC power adaptor, 80W	12V DC power adaptor, 60W	TX-4200E use 150W if power USB used. TX-4200 use 80W if 2 nd VGA port used.

Indicator LED	Power ON/ standby, bi-color LED, Ethernet Link LED on Ethernet connector, HDD lamp on front panel	Power ON/ standby, bi-color LED, Ethernet Link LED on Ethernet connector, HDD lamp on front panel	On front panel
Fanless system	Yes	Yes	
OS support	XP Pro, POSReady 7, Win 7	Linux , XP Pro, POSReady 7, Win 7	
SSD	SSD (16GB Minium)	SSD (16GB Minium)	through SATA interface
2nd display port	D-SUB 15 Pin; TX-3000 VGA daughter card for 2 nd display	D-SUB 15 Pin; TX-3000 VGA daughter card for 2 nd display	Port on the I/O plate TX-4200 power adaptor need upgrade to 80W
COM 3/4 convert cable	RJ45 to DB9 convert cable	RJ45 to DB9 convert cable	
COM 5/6 extension cable	Yes	N/A	
Power USB port	24V/2Ax1	N/A	Power adaptor need upgrade to 150W
WiFi	802.11n	N/A	through Mini PCI-E Interface
Wall mount bracket	Yes	Yes	

Table: Summary of features

Optional Items:

Note: The underlined items in the following list means that option must be set prior to shipment from the factory. The rest of 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) Preload OS Windows XP Pro, Win 7, POS Ready or Linux.

- d) Wireless LAN adaptor in Mini-PCI-E interface.
- e) RJ-45 to DB9 connector cable.

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 are two indicator LED modules serving for several purposes at front bezel. For HDD indicator, it will flash orange light when the HDD is operating. The relationship between the indicator status and other conditions of “Power LED” is summarized in the 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

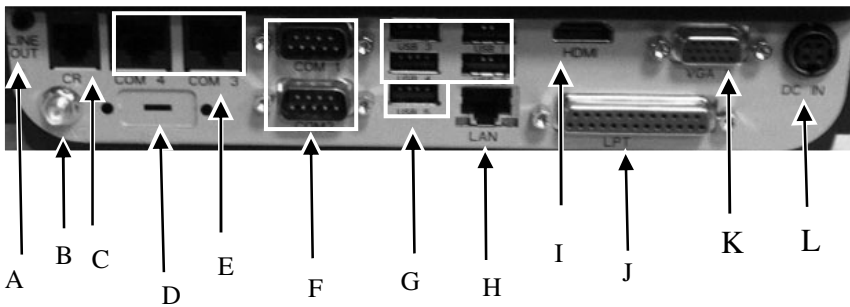
The VGA port in the TX series system supports either a separately connected LCD monitor or touch monitor. To support the DC power to the display monitor, it requires a qualified technician to set up through BIOS setting. To supply the necessary power through the VGA connector, please refer to the Posiflex technical information. **Do not connect other monitor to this port before the power in this port is disabled.**

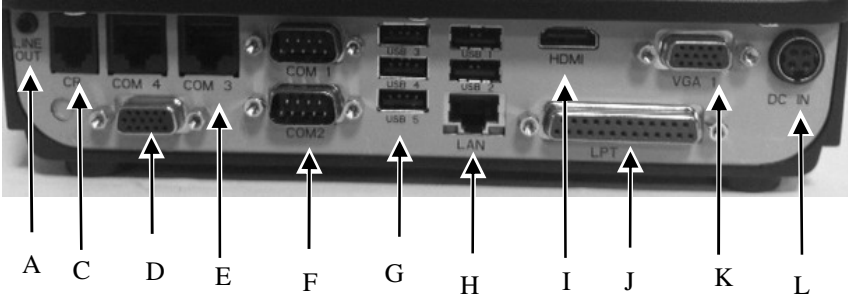
Rear I/O Plate

Please hold the base and pull up the terminal **carefully** then you will see the I/O plate.



TX-4200E Rear View





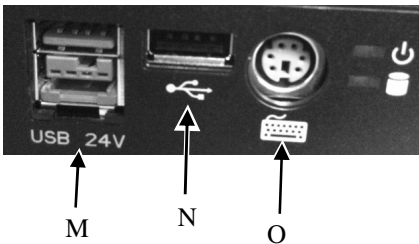
TX-4200 Rear View

- A: 1 x Audio line out port (optional)
- B: 1 x Antenna port (optional)
- C: 1 x CR port
- D: 1 x 2nd VGA port (optional)
- E: 2x Serial port (RJ-45) COM3 & COM4 port
- F: 2x Serial port (RS-232) COM1 & COM2 port
- G: 5x USB ports
- H: 1x LAN port
- I: 1x HDMI port
- J: 1x LPT port
- K: 1x VGA port (D-sub, 15 PIN)
- L: 1x DC IN power connector

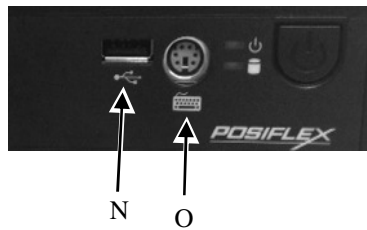
Front I/O Plate

Please hold the base toward yourself for front I/O plate view.

TX-4200E



TX-4200



M: 1x Power USB 24V

N: 1x USB

O: 1x PS/2

In TX series system, COM1, 2, 3 and 4 can supply a +5 V DC through system BIOS, COM 5 & 6 +5V/+12V are supported by jumper setting. The VGA port can support +12 V power through system BIOS setting for Posiflex LCD display monitor. 2nd VGA port +12V power is set by jumper. **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 COM port or LAN port 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 (Optional)

The RJ45 connector in I/O area of a TX-4200/4200E system can be used for controlling most of the common cash drawers which are driven by +12V signal. 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-4200/4200E series support wall mount application and VESA mount standard. After screw-fitting the upgrade kit WB*4200 bracket, TX-4200/4200E can apply mounting function and VESA standard application. For installation step, please refer to the WB*4200 bracket 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.

警告

本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

