

TX-4200/4200E/4200R

Fan Free Terminal

User's Manual

Rev.: A0

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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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.

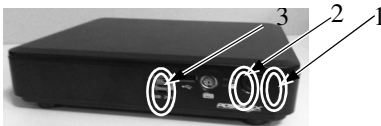
ABOUT THIS PRODUCT

TX-4200/4200E/4200R 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/4200R Series is so versatile that it can be used as a full fledged POS Box, a Kitchen Video System (KVS) controller and a Digital Signage controller.

- The most reliable Fanfree structure for harsh environment.
- Supports Win POSReady 7/2009, Win7, Win XP pro 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 with USB port for TX-4200E/4200R.
- Desktop or Wall Mount Installation.
- VGA daughter card for 2nd VGA display.
- Option Power USB board to support 24V power USB for TX-4200E/R only; a pair of rear-side 12V power USB ports to support TX-4200R.

INTRODUCTION

PRODUCT PICTURES



TX-4200E Front View



TX-4200E Rear View

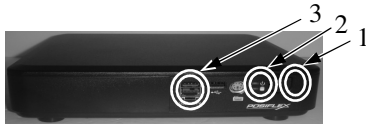
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TX-4200 Front View



TX-4200 Rear View



TX-4200R Front View



TX-4200R Rear View

PARTS IDENTIFICATION

1. Power switch.
2. LED indicator for power and SSD indicator.
3. Power USB 24V port (TX-4200E/4200R)/USB port (TX-4200).
4. I/O plate (TX-4200/4200E/4200R) on the rear side (a pair of 12V power USB ports on TX-4200R supported only , relatively COM3/4 ports on TX-4200/4200E rear side).

PRODUCT FEATURES

Standard Features:

	TX-4200E	TX-4200	TX-4200R
ITEM	SPECIFICATION	SPECIFICATION	SPECIFICATION
CPU	Intel Cedar View D2550 1.86G, 1M Cache, Dual Core	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	Intel NM10
VGA port	D-SUB 15Pin -1 support +12V	D-SUB 15Pin -1 support +12V	D-SUB 15Pin-1 support +12V
Display port	N/A	N/A	Support DP display, not support Audio Out function
LCD display	N/A	N/A	N/A
DRAM memory	DDR3 1066, SO-DIMM x 1 , Max 4GB	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	N/A
Parallel port	x1 Need extension cable (option)	x1 Need extension cable (option)	x 1 Need extension cable (option)
PS/2 KB	Yes, on the front side	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. 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	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	DB9 X 2, COM1 & COM2 through special convert cable. COM3/4 is option. COM 1/2 reserved + 5V power enable by software setting, COM1/2/3/4 reserved +12V by jumper setting
Extension slot	Mini-PCI-E with USB port, reserved for external WiFi Antenna	N/A	Mini-PCI-E with USB port, 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	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, Power USB card PU-470 must be installed for power USB FUNCTION (option)	6 ports, 5 ports on the I/O plate, 1 port on the front plate	10 ports, 7 ports on the I/O plate, optional one 24V power USB port on the front side, the other 12V USB port on the front side, one proprietary internal USB port by internal pin header, Power USB card PU-470 must be installed for 24V power USB
Audio port	Line out & 2W internal Speaker	Line out	Line Out & 2W internal Speaker
ETHERNET port	10/100/1000 Mb x 1	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	2.5" SATA HDD or SSD
Power switch	Soft switch on front bezel	Soft switch on front bezel	Soft switch on front bezel
Mechanical installation	Desk top or VESA Wall mount 75 x 75	Desk top or VESA Wall mount 75 x 75	Desk top or VESA Wall mount 75 x 75
Power saving	Suspension mode	Suspension mode	Suspension mode
Power supply	12V DC power adaptor, 80W, TX-4200E use 150W if power USB used.	12V DC power adaptor, 60W, TX-4200 use 80W if 2 nd VGA port used.	12V DC power adaptor, 150W.
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	Power ON/ standby, bi-color LED, Ethernet Link LED on Ethernet Connector, HDD lamp on front panel

Fanless system	Yes	Yes	Yes
OS support	XP Pro, POSReady 7/2009, Win 7	Linux , XP Pro, POSReady 7/2009, Win 7	Linux, XP Pro, POSReady 7/2009, Win 7
SSD	SSD (16GB Minium) through SATA interface	SSD (16GB Minium) through SATA interface	SSD (16GB Minium) through SATA interface
2nd display port	D-SUB 15 Pin; VGA daughter card for 2 nd display (option)	D-SUB 15 Pin; VGA daughter card for 2 nd display (option)	DP port on the I/O plate, VGA daughter card for 2 nd display (option)
COM3/4 Convert cable	RJ45 to DB9 convert cable	RJ45 to DB9 convert cable	N/A
COM5/6 Extension cable	Yes	N/A	N/A (COM3/4 extension cable)
Power USB port	24V/2Ax1	N/A	24V/2A x 1, 12V/1A x 2
WiFi	802.11n with dipole antenna through MiNi PCI-E Interface (option)	N/A	802.11n with dipole antenna through MiNi PCI-E Interface (option)
Wall mount bracket	Yes	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 2009, POS Ready 7.
- d) Wireless LAN adaptor in Mini-PCI-E interface.

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

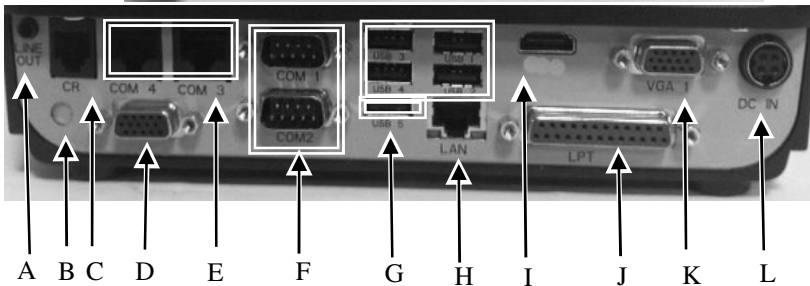
VGA Port

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

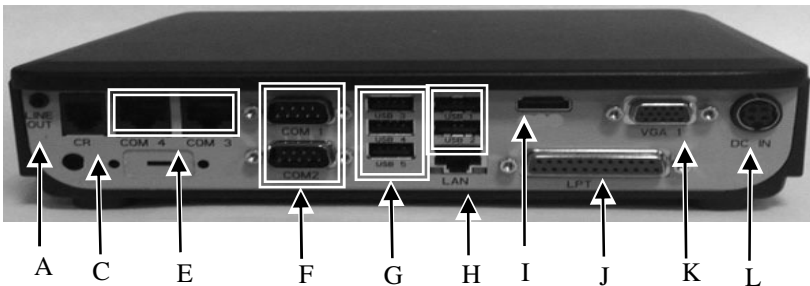
supply the necessary power through the VGA connector, please refer to the Posiflex technical information. **Do not connect other monitor to this port before the power in this port is disabled.**

Rear I/O Plate

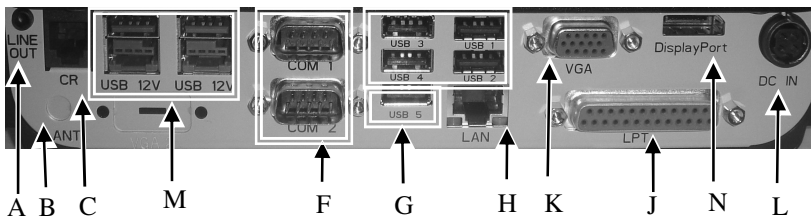
Please hold the base and pull up the terminal carefully then you will see the I/O plate.



TX-4200E Rear View



TX-4200 Rear View



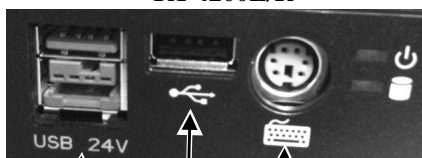
TX-4200R Rear View

- A: Audio line out port (optional)
- B: 1x Antenna port (optional)
- C: 1x CR port
- D: 1x 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
- M: 2x USB +12V port
- N: 1x Display port

Front I/O Plate

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

TX-4200E/R



M

N

O

TX-4200



N

O

M: 1x Power USB +24V

N: 1x USB

O: 1x PS/2

In TX series system, for TX-4200E/4200R/4200, COM1, 2, 3 and 4 can supply a +5 V DC through system BIOS, for TX-4200E/4200, COM 5 & 6 +5V/+12V are supported by jumper setting, for TX-4200R, COM1/2/3/4 +12V are supported by jumper setting, for TX-4200, COM1/2/3/4/5/6 +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 RJ11 connector in I/O area of a TX-4200/4200E/4200R 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 series 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 6-pole plug at the other. The 6-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/4200R series support wall mount application and VESA mount standard. After screw-fitting the upgrade kit WB*4200 bracket, TX-4200/4200E/4200R 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 in 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

