

Integrated Touchscreen POS Terminal

About this manual

The purpose of this user's manual is to provide the general information about TYSSO CubicPOS and showing users how to configure the hardware-related configurations. The manufacturer apologize that the information in this manual is subject to change without notice due to the rapid improvement on IT technology. The user can always get the most up to date information through our web sites:

<http://www.tysson.com.tw>

Disclaimer

This manual has been examined for accuracy. While precaution has been take in the preparation of this manual, The manufacturer takes no liability for error or omissions. Neither do manufacturer assumes any responsibility for damage(s) incurred directly or indirectly from errors, omissions, or discrepancies of this manual. IN NO EVENT WILL THE VENDOR BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THIS PRODUCT OR DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN PARTICULAR, THE VENDOR SHALL NOT HAVE LIABILITY FOR ANY HARDWARE, SOFTWARE, OR DATA STORED OR USED WITH THE PRODUCT, INCLUDING THE COSTS OF REPAIRING, REPLACING, OR RECOVERING SUCH HARDWARE, SOFTWARE OR DATA.



WARNING

The terminal has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interface in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used according to the instructions, may cause harmful interference to radio communications. However, there is not guarantee that interface will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which is found by turning the equipment off and on, the user is encouraged to try to correct the interface by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment or device
- Connect the equipment to an outlet other than the receiver's
- Consult a dealer or an experienced radio/TV technician for assistance

IMPORTANT NOTICE

CAUTION

Your system is provided with a battery-powered Real-Time Clock circuit. There is a danger of exposing and risk of personal injury if the battery is incorrectly replaced or mistreated. Do not attempt to disassemble the battery, immerse it in the water or dispose of it in fire.

WARRANTY LIMITS

If the CubicPOS machine is opened by any person other than the authorized technicians, the warranty will then automatically terminated. The user should consult his/her dealer for any technical problems. Warranty voids if the user does not follow the instructions in application of this product. The manufacturer is by no means responsible for any damage or hazard caused by improper use.

TRADE MARKS AND SERVICE MARKS

TYSSO is a registered trademark of FAMETECH INC.

Other brand and product names are trademarks and registered trademarks and service marks of their respective owners.

© Copyright Fametech Inc. (TYSSO) 2003

Safety Important Information

- ✧ Read all of these instructions carefully.
- ✧ Use only parts, especially power adapter, recommended by the manufacturer; unapproved parts may be hazardous.
- ✧ Before plug the power cord on the AC inlet of the power supply unit, please make sure that power switch is on correct voltage either 115V or 230V to avoid the damage of the power supply unit.
- ✧ Power off the system and remove the power adapter when clean the system.
- ✧ Before power on the system, please check if all the peripheral are all install firmly.
- ✧ Do not use the system near water, for example near a bathtub, washbowl, kitchen sink, or laundry tub or near a swimming pool. Avoid installing the system exposed to direct sunlight, near a heating or a radiator.
- ✧ Do not place the system on an unstable cart, stand or table. If the machine falls, it could injure a person or cause serious damage to the appliance.
- ✧ The system is equipped with a three-wire grounded plug, a plug with a third (grounding) pin. This is a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeats the safety purpose of the grounded plug.
- ✧ Do not allow anything to rest on the power cord. Do not locate the system where people may walk on the cord.
- ✧ Do not overload power outlet and extension cords. Overload can result in fire or electric shock.
- ✧ Do not push any object into the computer cabinet. It could touch dangerous voltage points or short out parts resulting in a fire or electric shock.

- ✧ Do not attempt to service the system yourself, opening or removing cover can expose you to dangerous voltage or other hazards.
- ✧ Power system off before installing or removing of not PNP (plug and play) devices.
- ✧ Unplug the systems from the power outlet immediately and refer servicing to qualified service personnel under the following conditions:
 - ◆ When the power cord or plug is damaged or frayed.
 - ◆ If liquid has been spilled into the system.
 - ◆ If the system has been dropped or the cabinet has been damaged.
- ✧ When system is not in use, please do cover the system and store with care.

Index

- 1. Unpacking**
 - 1.1) Standard System
 - 1.2) Optional Items
- 2. CubicPOS Overview**
- 3. Interface Board**
 - 3.1) RS-232 settings
 - 3.2) Parallel port
 - 3.3) USB port
 - 3.4) LAN port
 - 3.5) PS/2 keyboard port
 - 3.6) PS/2 mouse port
 - 3.7) Line-in
 - 3.8) Line-out
 - 3.9) MIC
 - 3.10) Digital I/O (4in / 4 out) port
 - 3.11) VGA
 - 3.12) AC in
- 4. Other Components**
 - 4.1) FDD/CD ROM drive
 - 4.2) LED Indicators
 - 4.3) Power On/Off switch
 - 4.4) MCR (Magnetic Card Reader)
 - 4.5) Adjustable hinge for TFT monitor.
 - 4.6) Rear base cover
 - 4.7) Touch panel
 - 4.8) Switching-Power Adapter
- 5. Drivers & Utility CD-ROM Disc Content**
- 6. Red Hat Linux 9.0 Operating System.**

1. Unpacking

The following part list is for reference only. Due to different options, the parts content in the package may be different. If any of the items are damaged or missing, please contact your supplier immediately. Please keep the packing materials for further usage such as moving or shipping the system and etc.

1.1) Standard System

- CubicPOS main system x 1
- Power supply unit x 1
- AC power cord x 1
- Rear base cover x 1
- CubicPOS User's manual x 1
- Driver and utility CD disc.
- HDD x 1 (2.5", pre-installed)
- 256MB PC133 RAM x 1 (pre-installed)
- CPU x 1 (Default Intel Celeron CPU, Intel PIII 1.3Ghz. upgradeable)
- Magnetic stripe card reader x 1, Keyboard wedge PS/2 interface, triple track.
- 12.1" TFT monitor with touch panel (Resistive, 5 wires, PS/2-mouse interface)

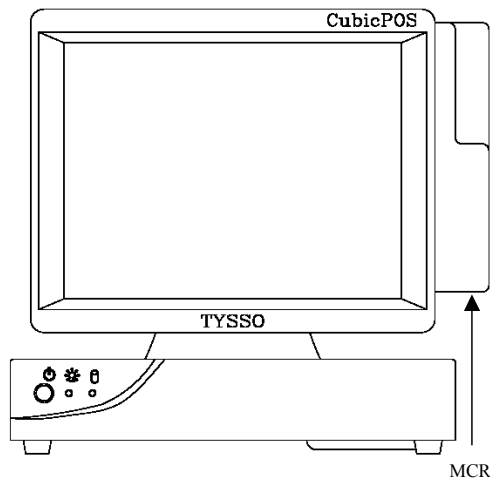
1.2) Optional Items

- 2.5" FDD x 1 : this installation has to be done at factory
- 2.5" CD-ROM w/Driver Disc : the installation of CD-ROM drive has to be done at factory
- FDD/CDROM cable: for barebones orders only
- HDD flat cable: for barebones orders only
- Bracket, screw kit of FDD/CDROM: for barebones orders only
- SDRAM Expansion: up to 512 MB.
- ELO Touch Screen Panel: this installation has to be done at factory
- 2nd Ethernet port : Realtek RTL8139C Ethernet controllers 10Base-T / 100Base-TX protocol, this installation has to be done at factory
- Customer (pole) Display (External): Please consult your dealer for further information
- Handheld barcode scanner: Please consult your dealer for further information
- 40 keys Programmable keyboard: Can be fixed on the left side of 12.1" TFT monitor.
- TV Out: VIA VT1621 TV Encoder, Composite and S-Video output
- Cash Drawers: Optional RS-232C interface or printer pass-through interface(RJ-11), or special connector for connecting CubicPOS' digital IO port.

2. CubicPOS Overview

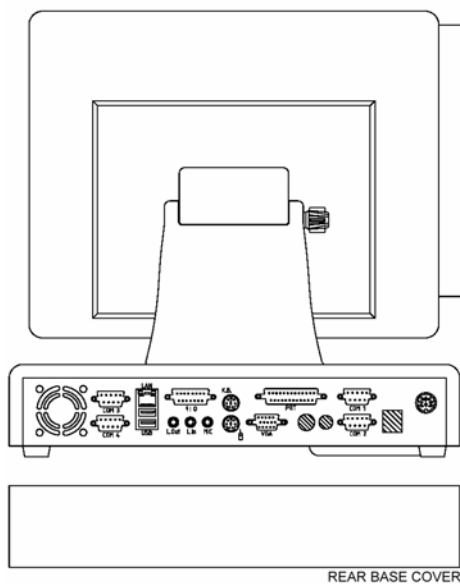
Tysson CubicPOS is a durable, smart and compact sized touch screen PC specially made for the heavy-duty, retail/POS applications. The 12.1 touch screen/TFT monitor can be positioned at any vertical angles between 0 to 90 degrees. Optional POS components can be integrated to the terminal include the customer display, magnetic stripe card reader, barcode slot reader and more.

Front view



MCR

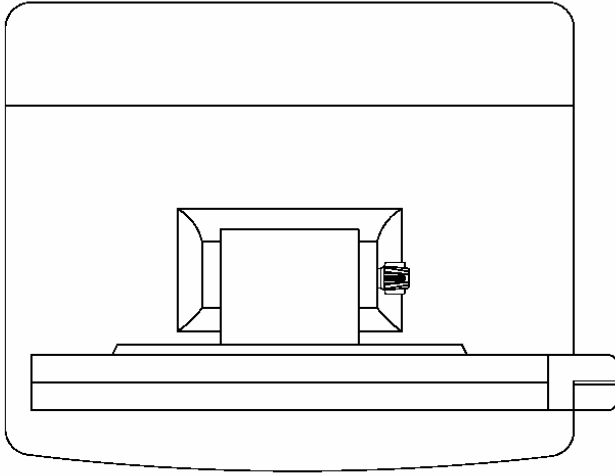
Rear view



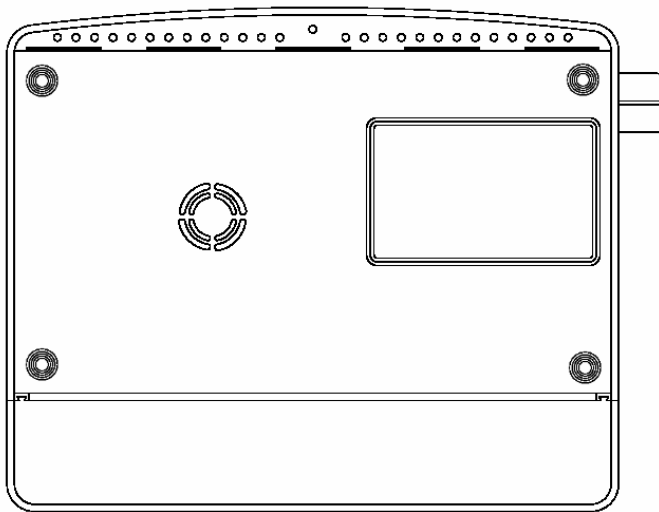
Roller Wheel

Top View

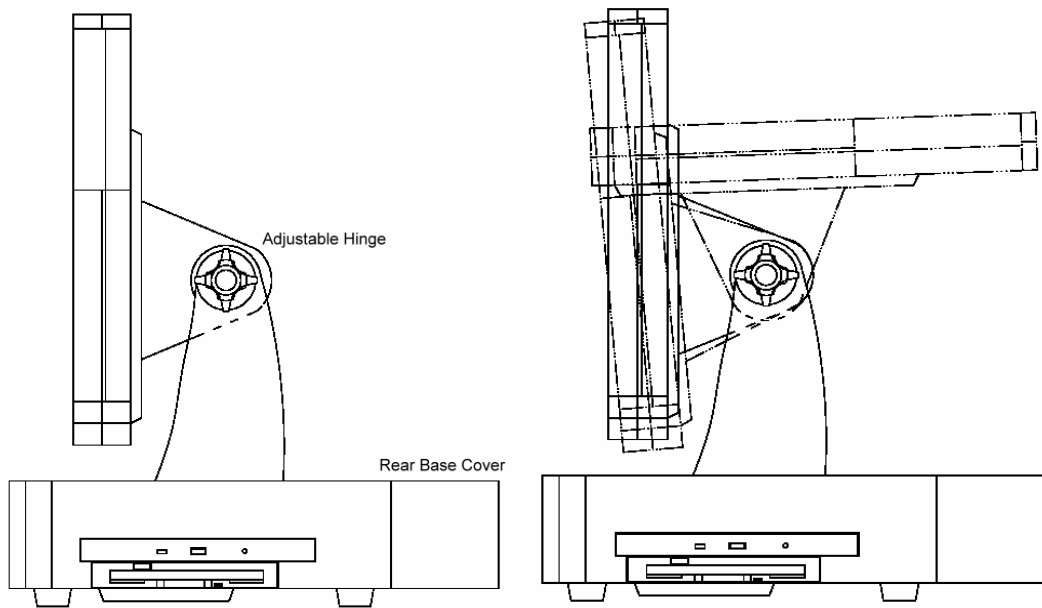
Rear Base Cover



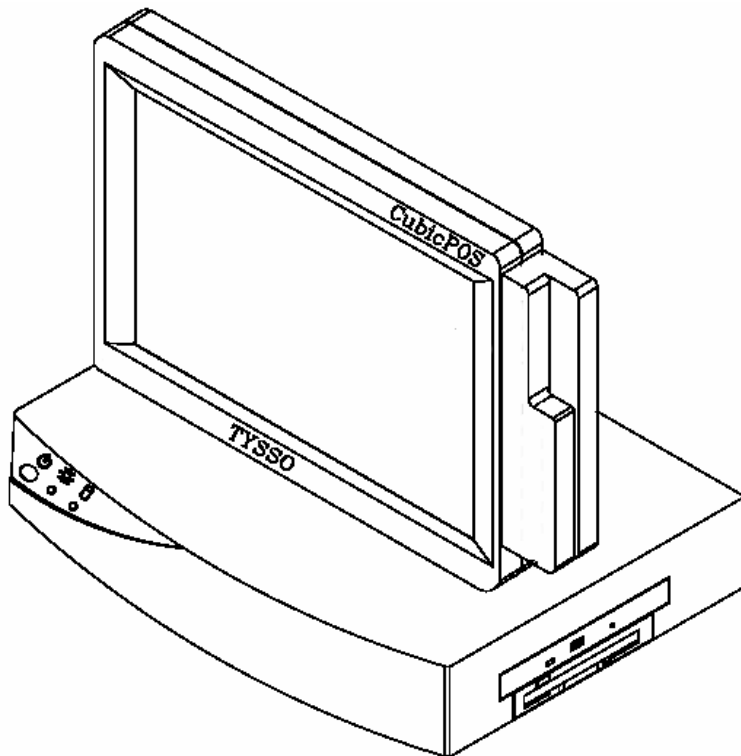
Bottom View



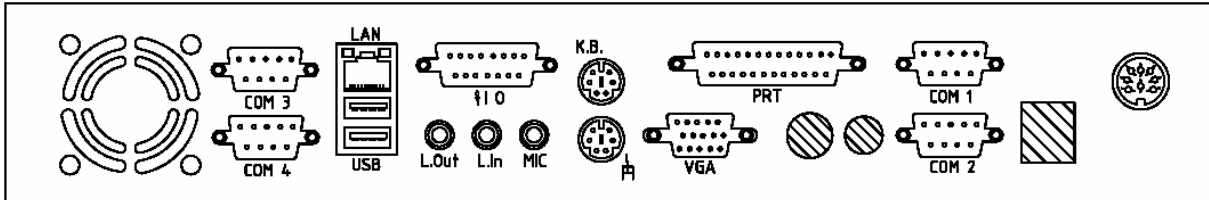
Left side view



45° Top Angle View



3. Interface board:



3.1.1 RS-232 ports x 4:

CubicPOS provides 4 serial ports for RS-232 devices connection. Each of the RS-232 port can be adjusted by DIP switch inside the main board to enable or disable the DC 5V or DC 12V power supply on pin No. 9 of RS-232. An 1A fuse has been used at the interface board to protect the system while the RS-232 devices are retrieving power from serial ports. The numbers of available COM(RS-232) ports varies depend on the interface selection of magnetic stripe card reader and touch panel. The configurations are as below:

- (a) 4 x RS-232 ports : There will be 4 serial ports available at interface board as both the touch panel and MCR are using PS/2 connection. This is the system default setting.
- (b) 3 x RS-232 ports: If the built-in MCR is pre-configured to use RS-232 connection that is connected internally to the main board and the touch panel is attached to the PS/2 mouse port as the factory default, then there will be total 3 free serial ports available at the interface board.
- (c) 2 x RS-232 ports: If the MCR and touch panel are both pre-configured to use RS-232 interface as factory default, 2 x RS-232 ports will be preserved for the said devices. Under this configuration, only 2 free RS-232 ports will be available for other uses.

3.1.2) RS-232 Voltage Setting

All 4 RS-232 ports of CubicPOS are able to provide selectable VCC +5V or +12V power through RS-232's pin number 9. The factory default for the RS-232 voltage function is disable. Please consult your dealer to enable the power supply to RS-232C if necessary.

3.1.3) RS-422/485

One Serial Port (COM2) of CubicPOS can be turned into RS-422/485 if needed, please contact your dealer for further information for main board configuration.

3.2) **Parallel port x 1:** support EPP/ECP specification, 25 pin D-type connector. It is able to connect with printer, scanner, and etc.

3.3) **USB port x 2:** (pin header)

3.4) **LAN port x 1:** RJ-45 phone jack for Ethernet connection (2nd LAN port is optional)

3.5) **PS/2 keyboard port x 1:** can be used to connect the ordinary/programmable keyboard and keyboard wedge devices such as BCR, further more, this port has been designed for the built-in keyboard wedge MCR which is attached internally on the interface board as default option. Noting that the default interface for the built-in MCR is keyboard wedge PS/2, MCR with RS-232 interface is available upon request.

3.6) **PS/2 mouse port x 1:** Besides for PS/2 mouse connection, this port is also used for PS/2 interface of touch panel which is connected internally as default . Please note that the touch screen panel is connected to the PS/2 mouse port internally as factory default.

3.7) **Line-in:** for connection of audio equipment such as CD ROM drive, MIDI equipments, ... and etc.

3.8) **Line-out:** For use of earphone, speaker and etc.

3.9) **MIC:** Microphone jack.

3.10) **Digital I/O (4in / 4 out) port x 1:** this port is designed for using cash drawer with special cash drawer plug provided by the manufacturer.

3.11) **VGA:** an 15 pin D-type connector is designed for connecting an additional monitor.

3.12) **DC in:** An 8 din round-power-jack for connection of AC 100-240V, DC 5V 10A / 12V 3A switching-power-adapter

4. Other Components

4.1) FDD/CD ROM drive

A CubicPOS unit may come with or without the built-in FDD and CD-ROM drive depends on order option, In case the FDD & CD-ROM drive are not included in your system, an external USB FDD or USB CD-ROM drive may be required for boot up purpose by enabling USB-boot function in the system BIOS setting . The main board manual is available from your dealer by request.

4.2) LED Indicators

- (a) Green LED: indicates the powered on/off status of the system.
- (b) Red LED: indicates hard disk drive status.

Note: FDD and CR-ROM drive are optional.

4.3) Power On/Off switch:

Turn the system on or off by pushing this switch.

4.4) MCR (Magnetic Card Reader)

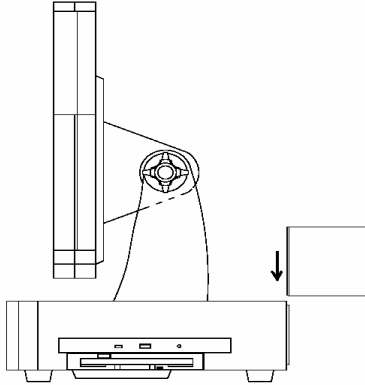
The embedded MCR is a standard device which is connected internally to the interface board via keyboard wedge PS/2. please refer to the Interface Board Section in 3.1.1.

4.5) Adjustable hinge for TFT monitor.

The hinge is for tilting the best viewing angle of the display panel. The roller wheel can be installed at either your right hand side or left hand side of the TFT display pole depends on your needs.

4.6) Rear base cover

Use this cover to hide the cables on the interface board from the customer:



4.7) Touch panel

CubicPOS is come with an 12.1" TFT monitor provided with a piece of 5-wires, resistive touch panel. The touch panel's interface may be RS-232 upon requested. The default option is PS/2-mouse interface.

4.8) AC 100-240V, DC 5V 10A / 12V 3A Switching-Power Adapter

The switching-power adapter has a lockable connector in order to fix the connector tightly to the "DC in jack" on back of the system. Before pull out the power plug, please always make sure to first hold down the latch and then pull the connector backward.

5. Drivers & Utility CD-ROM Disc Content:

File Location: CD-ROM\Driver

This folder contains the software driver of the following Tysso Products:

- (1) CubicPOS: Please Execute “**CDGuide.exe**” to begin complete driver installation process
- (2) Touch Panel PS/2: CD-ROM\Driver\Touch_Panel\PS2\R51-ps2\
- (3) Touch Panel PS/2 Linux Driver: CD-ROM\Driver\Touch_Panel\PS2\PS2 Linux Driver
- (4) Touch Panel RS-232: CD-ROM\Driver\Touch_Panel\SERIAL\R51-com

6. Red Hat Linux 9.0 Operating System.

The CubicPOS are pre-installed with Red Hat Linux 9.0 (Default Language: English) for system testing purposes only, If the user prefer not to use this operation system, he/she can simply remove the entire Linux OS by following steps:

1. Boot up the system with Windows 98 system boot up floppy disk
2. Under DOS Prompt (A:\>) type: fdisk /mbr and press enter
3. Re-fdisk and format the hard disk drive
4. Install any preferred operating system and POS software application following the installation guide/instruction provided by the software developer.

In case the user decides to keep the Red Hat Linux 9.0 for their daily operation use, The root password is: **tyssso** The user can change the root password and language options later after entering the Red Hat Linux system. **Please note that the manufacturer does not provide any support or service to the pre-installed Red Hat Linux, NOR SHALL THE MANUFACTURER BE LIABLE FOR ANY SOFTWARE, OR HARDWARE-COMPATIBILITY PROBLEM(S) DURING THE USER'S OPERATION OF RED HAT LINUX.** please visit <http://www.redhat.com> for technical support or guide of Red Hat Linux.