WINCOR NIXDORF

POS108

System

Operating Manual

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Edition Apr 2006

Contents

Manufacturers Certification

The device complies with the requirements of the EEC directive 89/336/EEC with regard to ‘Electromagnetic compatibility" and 73/23/ECC “Low Voltage Directive”.

Therefore, you will find the CE mark on the device or packaging.

FCC-Class A Declaration

This equipment 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 interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not in-stalled and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Modifications not authorized by the manufacturer may void users authority to operate this device.

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NBM-003 du Canada.

Important notes

The POS108 system conforms to the current safety standards for data processing equipment.

- If this device is taken from a cold environment into the operating room, moisture condensation may form. The device must be absolutely dry before being put into service; an acclimatization period of at least two hours must therefore be observed.
- This device is equipped with a safety-tested power cable and may be connected only to a prescribed grounded-contact power socket.
- When setting up the device, ensure that the power socket on the device and the grounded-contact power socket are easily accessible.
- To disconnect the device from the supply voltage completely, switch off the device and disconnect the power plug.
- Ensure that no foreign objects (e.g. office clips) find their way into the device, as this may lead to electric shocks or short-circuits.
- Never plug in or unplug data communication lines during thunderstorms.
- Protect devices from vibrations, dust, moisture and heat.
- Always dispose of used parts, such as batteries, in an environmentally safe manner.
- The lithium battery must be disposed of in accordance with local regulations for special waste.
- In emergencies (e.g. damaged housing or damaged power cable, penetration by liquids or foreign bodies), the device must be switched off immediately, the power plug disconnected and the Customer Service of Wincor Nixdorf (WN) or your dealer must be notified.
- The device may only be repaired by authorized qualified personnel. Unauthorized opening of the device and inexpertly carried-out repairs may not only seriously jeopardize the safety of the user, but also cancel all warranty and liability agreements.

Power Cord Selection

If power cord is not provided with the display, user has to ensure that a certified power cord is used as required by the Safety Regulation of the country.

Countries	Safety Approvals
Japan	PSE
Taiwan	BSMI
China	CCC

For other countries not mentioned in the above list, please check with the local authority.

Replacing the Lithium Battery

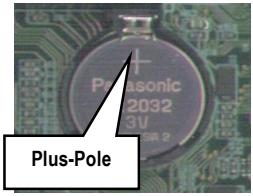
CAUTION

Incorrect replacement of the Lithium Battery may lead to a risk of explosion

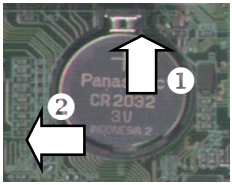
The end user must replace the lithium battery only by identical batteries or types recommended by Wincor Nixdorf.

Do not throw Lithium Batteries into the trashcan. It must be disposed of in accordance with local regulations concerning special waste.

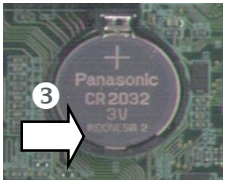
Make sure that you insert the Battery the right way round. The plus pole must be on the top!



- *Push the Latch* ❶ *and remove the Lithium Battery from its Socket* ❷ *.*



- *Insert and press a new Lithium Battery of same type in the Socket* ❸ *.*



Introduction

About this manual

This manual describes the POS108 system.

This documentation is intended to help you to work with the POS system and to serve as a reference work. The detailed table of contents helps you find the desired information quickly and easily.

NOTE *Notes call attention to important information.*

CAUTION *Cautions are included to help you avoid damaging hardware or losing data.*

WARNING *Warnings indicate conditions that, if not observed, can cause personal injury.*

The type and scope of application programs depend on the customer's own selection; therefore, software will not be discussed further in this manual.

Separate manuals are included in the scope of the connectable peripherals. For this reason, a more detailed description of these devices will not be provided here. For more information see the relevant manuals.

Care of the POS108

WARNING

Clean your POS108 at regular intervals with a suitable plastic-surface cleaner. Make sure that the power plug is disconnected, connector cables are unplugged and that no liquid finds its way into the device. The glass surface of your Touch Screen should be cleaned with a mild, commercially available glass cleaning product. All pH neutral materials (pH 6 to 8) are to be used for cleaning purposes.

Recycling the POS108

Environmental protection does not begin when time comes to dispose of the POS108; it begins with the manufacturer. This product was designed according to our internal norm “Environmental conscious product design and development”

The POS108 system is manufactured without the use of CFCs and CCHS and is produced mainly from reusable components and materials.

The processed plastics can, for the most part, be recycled. Even the precious metals can be recovered, thus saving energy and costly raw materials.

Please do not stick labels onto plastic case parts. This would help us to re-use components and material.

You can protect our environment by switching on your equipment only when it is actually needed. If possible, even avoid the stand-by-mode as this wastes energy, too. Also switch your equipment off when you take a longer break or finish your work.

There are still some parts that are not reusable. Wincor Nixdorf guarantees the environmentally safe disposal of these parts in a Recycling Center, which is certified pursuant to ISO 9001.

So don’t simply throw your POS108 system on the scrap heap when it has served its time, but take advantage of the environmentally smart, up-to-date recycling methods!

Please contact your competent branch office for information on how to return and re-use devices and disposable materials.

Wincor Nixdorf is always ready to answer any questions you may have about our environmental protection policies. We look forward to your message.

Warranty

Wincor Nixdorf guarantees a limited warranty engagement for 12 months beginning with the date of delivery. This warranty engagement covers all those damages which occur despite a normal use of the product.

Damages because of

- improper or insufficient maintenance,
- improper use of the product or unauthorized modifications of the product,
- inadequate location or surroundings

will not be covered by the warranty.

All parts of the product which are subject to wear and tear are not included in the warranty engagement.

Please order spare parts at the Wincor Nixdorf customer service.

Device Overview

POS108 is a compact POS system that features the Open Architecture design concept with high level of retail peripheral integration. It has the flexibility as a modular system as well as its ability to be connected to a variety of external peripherals, such as cash drawer, printer, customer display and even to a network.

Front view

Basic Operation

Before switching on the System

Unpacking and checking the System

Unpack the parts and check to see whether the delivery matches the information on the delivery note.

If damage has occurred during shipping or if the package contents do not match the delivery note, promptly inform your Wincor Nixdorf sales outlet.

NOTE

Transport the device only in its original packaging (to protect it against impact and shock).

Setting up the device

Set up the POS108 system where it will not be exposed to extreme environ-mental conditions. Protect the device from vibrations, dust, moisture, heat and strong magnetic fields.

CAUTION

Make sure that the side ventilation slots on the POS108 system are not obstructed in order to ensure that the device has sufficient ventilation.

Cabling of the POS108

Follow the steps below in the order given when installing devices:

- The cable cover must be removed, if present.
- Plug one end of the power cable into the socket of the POS108.
- Plug in and secure the data cable.
- Plug the other end of the power cable into the main power supply.

WARNING

Always make sure that the system is switched off when you do cabling works.

Connecting to the Main Power Supply

All devices connecting to the POS108 system that have a separate power cable must be connected to the same electric circuit.

- Make sure that all data cables on the system unit and peripherals are connected correctly.
- Plug the power cables belonging to the POS108 and the peripherals into the grounded-contact power sockets.

Switching on the system

To switch on the POS108 system,

- Switch on the power supply at the rear side.
- Push the ON button in front of the box.

POS108 – The Components

Functions & Indicators on the POS108

The illustration below shows the components of the POS108 system.

❶ – ON/OFF Button

In an Micro ATX based system, the new soft touch power button replaces the main power switch that turns your system on and off. From an OFF state, you can switch the system ON by simply pressing the power button. From an ON state, pressing and holding the power button for four (4) seconds can turn OFF the system. The functions of the power button can also be altered in the Power Management section of the CMOS setup.

❷ – POWER-ON Indicator (LED)

The indicator (LED) lights up **Green** when the system unit is switched on.

❸ – HARD-DISK DRIVE Indicator (LED)

The indicator (LED) lights up **Amber** when the system unit is switched on.

❹ – USB Connector

The 2 contact points are meant for connection of Universal Serial Bus (USB) devices.

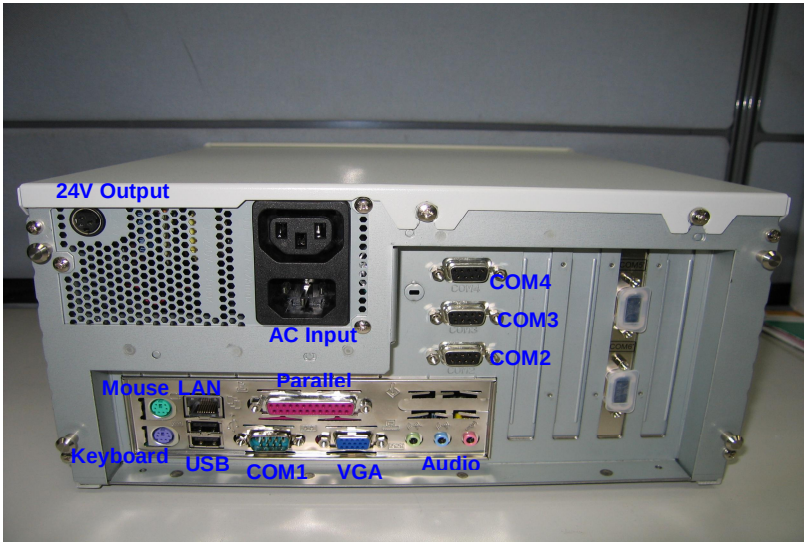
Drives on the POS108

The POS108 is equipped with a 3 ½" E-IDE Hard-Disk drive. The storage capacity is changed in line with market demand, but is currently at least 40 GB.

There is no floppy-Disk drive or CD-ROM Drive in the system.

Rear Panel Connectors on the POS108

The illustration shows part of the rear panel of the POS108, with the position of the connecting sockets and connectors.



12V Power Output

12VDC output supplies up to a maximum of 1A for powering a LCD Display.

WARNING

Connect only cable to the 12VDC Power Output, which are label with "12V-LCD".

Expansion Slots

There are two PCI Bus Master slots (rev. 2.2) on-board.

Power Supply Unit

The power supply unit automatically adjusts itself to the particular voltage. The power output of the power supply unit is maximum 193 W.

VGA Connector for Monitor or LCD-Display

You can connect a Monitor or LCD-Display to the POS108 via the **Blue** 15-Pin D-Sub Jack on the VGA Connector.

Keyboard Connector (PS/2)

The POS108 has a **Purple** 6-pin Mini-DIN Jack for connecting a keyboard.

NOTE

Make sure that the connector is plugged firmly into the socket to prevent malfunctioning.

Mouse Connector (PS/2)

The POS108 has a **Light-Green** 6-pin Mini-DIN Jack for connecting a Standard Mouse using a PS/2 plug.

Parallel Interface LPT1 for Modular Printer

The POS108 standard **Burgundy** Parallel Interface LPT1 is intended for connecting a printer.

COM1 Serial Interface for Standard PC Peripherals

You can connect supplementary standard peripherals to the POS108 Via the **Turquoise** COM1 Serial Interface.

WARNING

Make sure that all supplementary devices have been tested for RFI suppression pursuant to the legal requirements of your country.

LAN (RJ45) Socket for Network

The POS108 system can be connected to a network (LAN) from the POS terminal rear panel.

USB (Universal Serial Bus) Port 1 and 2

Two USB ports are available at the rear panel of POS108 system for connecting USB Devices.

Audio Port Sockets

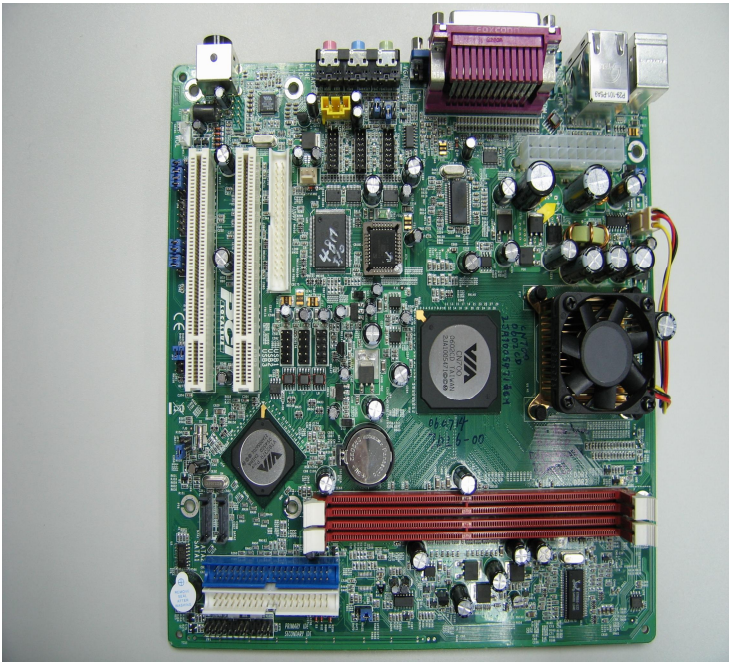
The POS108 has a **Lime** Line-out socket can be connected to Headphones or preferably Powered Speakers.

A Light-Blue Line-in socket allows Tape-Players or other Audio Sources to be records by your POS system or played through the **Lime** Line-out.

A **Pink** MIC socket allows microphones to be connected for inputting voice.

POS108 Motherboard

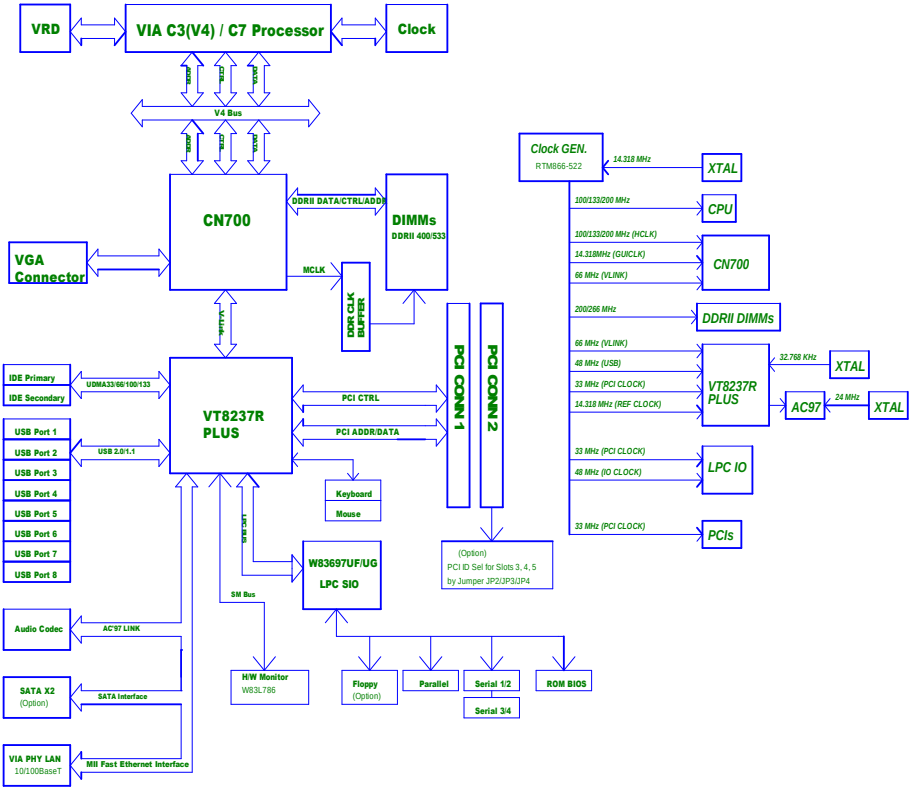
POS108 is using VIA motherboard with VIA low power C3/V4 processor.



CAUTION

Static electricity can harm delicate components of the Main-Board. To prevent damage caused by static electricity, discharge the static electricity from your body before you touch any of the computers electronic components.

Motherboard Block Diagram



Motherboard Details

Processor	VIA C3(V4) nanoBGA2 Processor 1GHz (H/S Fan is need).
Chipset	VIA CN700 North Bridge. VIA VT8237R-Plus South Bridge
System Memory Support	2x un-buffered DIMM socket. DDR2 400/533MHz. Up to 1GB Memory size.
Internal VGA	Integrated UniChrome Pro graphics core for CRT only. (System memory frame buffer size 16/32/64 MB)
Expansion Slots	2 PCI (ref D51 compatible).
Onboard IDE	2x ATA IDE Connectors. 2x SATA-1.0 Connectors – *(Not mounted)*
Onboard Floppy	1 x FDD Connector – *(Not mounted)*
Onboard LAN	VIA VT6103 PHY for Ethernet 10/100 Base-T.
Onboard Audio	VIA VT1618 AC'97 Codec.
Onboard I/O Connectors	On board USB connectors for 6 additional USB 2.0 ports (option USB cable). Front-panel audio connectors (Mic and Line Out). CD Audio-in connector. 1 CPU Fan connector with speed control. 1 System Fan connectors. on board COM 2, 3 & 4 port (by Winbond W83697UF LPC I/O controller with WN specific COM port connector - ref D51). Case open detection connector.
Back Panel Connectors	PS2 mouse/keyboard ports. 1 Parallel Port. 1 Serial port(COM 1). 1 RJ-45 LAN port. 2 USB ports. 1 VGA port. 3 audio jacks for line-out, line-in and mic-in. 12V Power connector (ref D51) – *(Not mounted)*
BIOS	Award BIOS 4Mbit flash memory
System Monitoring & Management	CPU temperature monitoring System voltage monitoring Keyboard-Power-on.
Dimension	8.662" x 8.80"
Accessories	1) I/O Shield 2) 2-port Front USB board 3) Front USB cable 4) COM cable with ferrite core (3X) 5) ATA100 cable 6) Heatsink/Fan 7) Driver CD

System BIOS

This section describes Award BIOS™ Setup program built into the ROM BIOS. The Setup program allows users to modify the basic system configuration. This special information is then stored in battery-backed RAM so that it retains the Setup information when the power is turned off.

The BIOS reads the system information contained in the CMOS and begins the process of checking out the system and configuring it. When it finishes, the BIOS will seek an operating system on one of the disks and then launch and turn control over to the operating system.

The Setup program can be activated by pressing the <Del> key when the following message appears briefly at the bottom of the screen during the POST (Power On Self-Test).

Press DEL to enter SETUP.

Below is the menu displayed on entering the Setup program.

```
CMOS Setup Utility - Copyright ( C )  1984-1998
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Standard CMOS Feature	Frequency/Voltage Control
Advanced BIOS Feature	Load Fail-Safe Defaults
Advanced Chipset Feature	Load Optimized Defaults
Integrated Peripherals	Set Supervisor Password
Power Management Setup	Set User Password
PnP/PCI Configurations	Save & Exit Setup
PC Health Status	Exit Without Saving
Esc : Quit F10 : Save & Exit Setup	↑ ↓ ← → : Select Item
Time, Date, Hard Disk Type….	

Setup Items

The main menu includes the following main setup categories.

Standard CMOS Features	Use this menu for basic system configuration.
Advanced BIOS Features	Use this menu to set the Advanced Features available on your system.
Advanced Chipset Features	Use this menu to change the values in the chipset registers and optimize your system's performance.
Integrated Peripherals	Use this menu to specify your settings for integrated peripherals.
Power Management Setup	Use this menu to specify your settings for power management.
PnP / PCI Configurations	This entry appears if your system supports PnP / PCI.
PC Health Status	Use this menu to enter the hardware monitoring screen.
Frequency/Voltage Control	Use this menu to specify your settings for frequency/voltage control.
Load Fail-Safe Defaults	Use this menu to load the BIOS default values for the minimal/stable performance for your system to operate.
Load Optimized Defaults	Use this menu to load the BIOS default values that are factory settings for optimal performance system operations. While Award has designed the custom BIOS to maximize performance, the factory has the right to change these defaults to meet their needs.
Supervisor / User Password	Use this menu to set User and Supervisor Passwords.
Save & Exit Setup	Save CMOS value changes to CMOS and exit setup.
Exit Without Save	Abandon all CMOS value changes and exit setup.

Appendix

Technical Data for the POS108

Modular POS System			
Width	288 mm		
Depth	282 mm		
Height	150.5 mm		
Weight	approx. 5.4 kg		
Climatic category			
Operating	IEC 721-3-3	Class 3K3	+5°C to +40°C
Transport	IEC 721-3-3	Class 3K3	-25°C to +40°C
Storage	IEC 721-3-3	Class 3K3	+5°C to +40°C
Input voltage	100 - 120 VAC 200 - 240 VAC		
Max. power consumption	6A 3A	100 – 120 VAC 200 – 240 VAC	
Frequency of system voltage	50 -60 Hz		

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