



BEETLE /i8A-3

(D425/D525-Motherboard)

Modular POS System

User Manual

We would like to know your opinion on this publication.

Please send us a copy of this page if you have any constructive criticism.

We would like to thank you in advance for your comments.

With kind regards,

Your opinion:

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(D425/D525 Motherboard)

Modular POS System



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Manufacturer's Certification



The device complies with the requirements of the EEC directive 2004/108/EC with regard to 'Electromagnetic compatibility' and 2006/95/EG "Low Voltage Directive".

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

Tested Safety



The BEETLE has received the UL symbol and cUL symbol.

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 installed 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 NMB-003 du Canada.

Important notes

The modular POS system BEETLE /i8A-3 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 of the power supply.
- 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 ventilation slots must remain unobstructed to ensure sufficient ventilation of the equipment. If the equipment is to be fitted, you must ensure that the specified minimum distances are maintained and constant ventilation is provided.
- 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 or your dealer must be notified.
- The lithium battery must be disposed of in accordance with local regulations for special waste. In case of an improper change of the lithium battery it exist an explosion risk.
- 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.

- Your BEETLE system is the result of modern technical innovation. So please see for according structural and technical surroundings to guarantee a faultless and efficient work of your BEETLE. Therefore, you should connect your BEETLE or other IT-devices only to power supply systems with separately guided protective earth conductor (PE). This kind of electricity system is known as TN-S network. Do not use PEN conductors!
Please also observe the recommendations of the norm DIN VDE 0100, Part 540, Appendix C2 as well as EN50174-2, §5.4.3. Thus you can help to avoid possible malfunctions.
- You can connect or disconnect USB devices during operation of your BEETLE, provided that these devices comply with the specifications according to usb.org. Other peripheral devices with higher power requirement (such as PoweredUSB printer) should be connected to or disconnected from your BEETLE system only after the BEETLE has been switched off.

Introduction

The BEETLE /i8A-3 is the powerful POS System for multi-functional solutions. This entry level POS system unit with low power, state-of-the-art Intel Atom™ processor technology provides a basis for all of today's and future POS store and back office solutions.

The BEETLE /i8A-3 features numerous standard PC and retail-specific powered interfaces for connection of peripheral devices. Additional USB ports are accessible from the front for greater convenience. The type and number of interfaces can be customized very flexibly.

The BEETLE /i8A-3 uses cutting-edge Intel processors that offer better performance yet consume more than 30 % less power than those of previous generations. The power supply unit complies with the strict 80 PLUS Bronze supply standard, operating with a constant energy efficiency of over 82 %.

The addition of a powered interfaces for peripherals, power-saving functions in the BIOS and operating system results in a marked reduction in power consumption and the resulting CO₂ emissions. These technologies enable you not only to protect the environment but also to reduce running costs and total cost of ownership.

Whatever configuration you need: Wincor Nixdorf International GmbH offers a suitable solution. If you want to know more about our products visit us on Internet:

http://www.wincor-nixdorf.com/internet/site_EN/EN/Home/homepage_node.html

About this manual

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 help you find the desired information quickly and easily.



Notes in the manual are marked by this symbol.



This symbol is used for warnings.

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

You will find a description of the BIOS Setup and the Central Processing Unit in a separate manual ("POS Motherboard"), see:

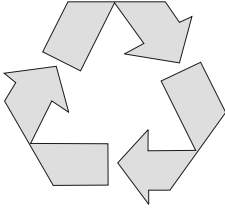
<http://www.wincor-nixdorf.com/internet/us/Services/Support/TechnicalSupport/POSSystems/index.html>.

Care of the BEETLE /i8A-3

Clean your BEETLE /i8A-3 at regular intervals with a suitable plastic-surface cleaner which can be ordered from Wincor Nixdorf International GmbH.

Make sure that the **power plug is disconnected** and that no liquid finds its way into the device.

Recycling the BEETLE /i8A-3



Environmental protection does not begin when the time has come to dispose of the BEETLE; it begins with the manufacturer. This product was designed according to our internal norm "Environmental conscious product design and development".

The modular BEETLE /i8A-3 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.

At this time, there are still some parts that are not reusable. Wincor Nixdorf International GmbH guarantees the environmentally safe disposal of these parts in a Recycling Center, which is certified pursuant to ISO 9001 and ISO 14001.

So don't discard your BEETLE /i8A-3 system on the garbage when it has served its time, but take advantage of the environmentally smart, up-to-date recycling methods!

Please contact your competent branch or the Recycling Center Paderborn (for European countries) for information on how to return and re-use devices and disposable materials under the following mail address.

Email: info@wincor-nixdorf.com
or on the internet.

We look forward to your mail.

Warranty

Generally, Wincor Nixdorf guarantees a warranty engagement for twelve months beginning with the date of delivery. This warranty engagement covers all 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.

For further information on the stipulation consult your contract.

All parts of the product which are subject to wear and tear are not included in the warranty engagement. For detailed warranty arrangements please consult your contract documents.

Please order spare parts at the Wincor Nixdorf customer service.

BEETLE /i8A-3- the POS System

Overview

You can connect a variety of peripherals to your modular POS system BEETLE /i8A-3 and thus implement a wide range of expansion stages. You can connect a four-line alphanumeric customer display and a four line cashier display. Alternatively, you can connect flat screens.

You can

- use various types of scanners such as distance, touch or stationary scanners,
- use scales and scanner scales (please take into account the official certification regulations),
- connect various printers,
- use POS keyboards,
- use different types of cash drawers,
- integrate the BEETLE /i8A-3 in a network and
- upgrade the BEETLE /i8A-3, since it can accommodate one expansion card (1x PCI).

This means that the BEETLE /i8A-3 can meet your requirements at all times, without having to exchange the complete system for a new one.

Before switching on the System

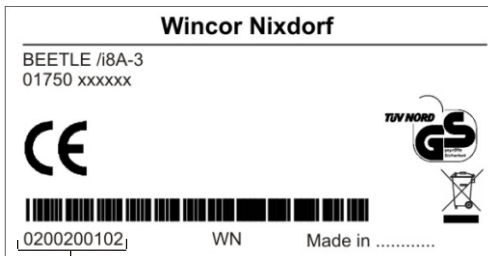
Unpacking and checking the System

Unpack the components and verify that the scope of delivery is identical to the information on the delivery ticket.

The carton contains the basic unit and a country-specific accessories kit. Some ordered composition may be installed.

Should you notice any transport damages or discrepancies between package contents and delivery ticket or functional defects please inform your contracting parties or the branch office of Wincor Nixdorf immediately. Please indicate the number of your delivery ticket and delivery ticket position and serial numbers of the respective devices.

The serial numbers can be found on the sample label illustrated below which are located at the bottom side of the housing.



serial number

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

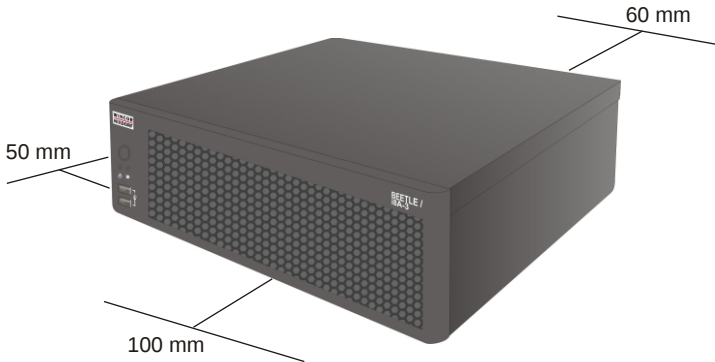
Setting up the device



Set up the BEETLE /i8A-3 system where it will not be exposed to extreme environmental conditions. Protect the device from vibrations, dust, moisture, heat and strong magnetic fields.

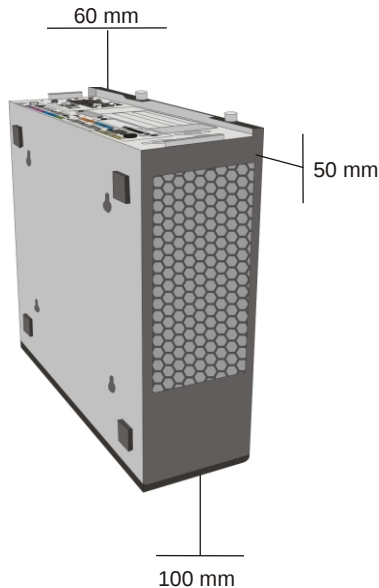
Horizontal installation

Mind the **minimum distances** indicated below! If the equipment is to be fitted, you also must ensure that the specified minimum distances are maintained and constant ventilation is provided. The immediate ambient temperature of the system must not exceed 40° C (104° F).



Vertical installation of the equipment

The minimum top and bottom distances listed in the figure must be maintained; otherwise, a sufficient ventilation of the equipment is not guaranteed.



If you install the BEETLE /i8A-3 in vertical position, you have attend to the following:

- Three breakable bore holes are located at the underside, which allow the BEETLE /i8A-3 to be suspended by means of the screws.
- Mind the following minimum clearances also for vertical mounting to ensure sufficient ventilation (**100 mm = 3.94 inch**):

forward: 100 mm,

backward: 60 mm

sideways (left): 50 mm

- A surface made of nonflammable material (e.g. concrete or metal) must be located underneath the vertically mounted system.

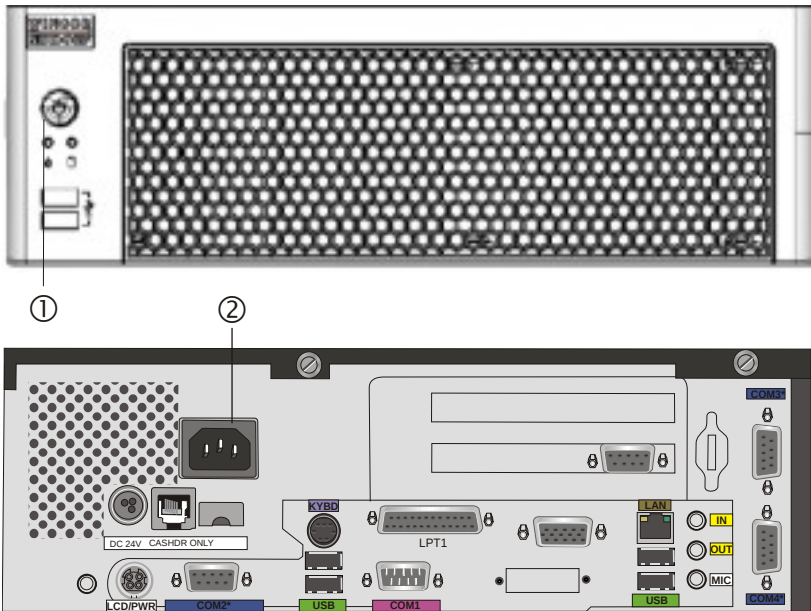
Cabling of the BEETLE /i8A-3

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

- Plug one end of the power cable into the socket of the BEETLE /i8A-3.
- Plug in and secure the data cable.
- Plug the other end of the power cable into the main power supply.



Always make sure that all power plugs from the grounded-contact power sockets are unplugged.



①	ON Button
②	Power Input Jack

Now push the power ON button on the front side of the system.

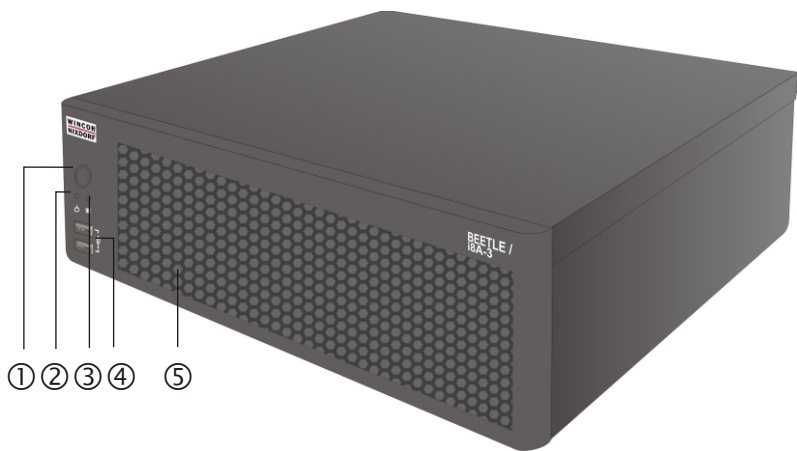
The power supply can be connected to all conventional power supply networks. It automatically adjusts itself to the particular voltage. The power output of the power pack is maximum 304 W.

Basic settings

Ex works, the BEETLE /i8A-3 is configured to your order. Your configuration must be subsequently adapted to support supplementary devices such as scanners. For more information, contact the Wincor Nixdorf International GmbH branch office responsible for your area.

The System BEETLE /i8A-3

Front Side View



①	ON Button
②	Power LED
③	HDD- LED
④	2 USB Interfaces
⑤	Ventilation Slots (NOT COVERING)

ON Button

With a power supplied power unit you switch on the system with the power ON button on the front side of the system unit.

Light-emitting Diode (LED)

The LEDs are labelled with:

HDD		right LED flashes yellow	While the hard disk is beeing accessed
POWER		left LED flashes green	Stand by mode (S3)
		left LED lights green	Device is switched on (S0)
		left LED is off	Hibernation (S4)/ Soft off (S5)

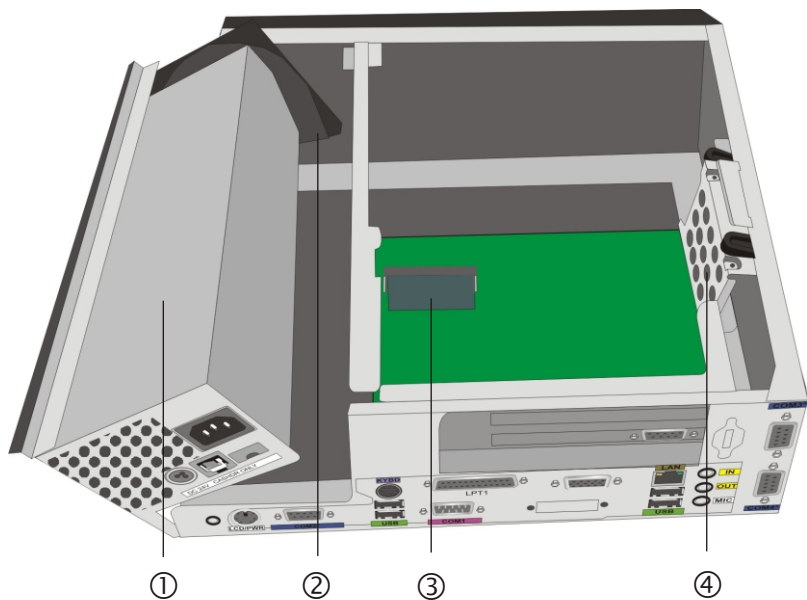
USB (Universal Serial Bus)- A, USB 2.0

Interface (USB-A) for connecting different USB peripheral devices such as scanners or scales.



You must use only shielded cables for the connection of USB devices.

Interior view



①	Power Supply
②	Ventilator
③	RAM
④	Hard Disk

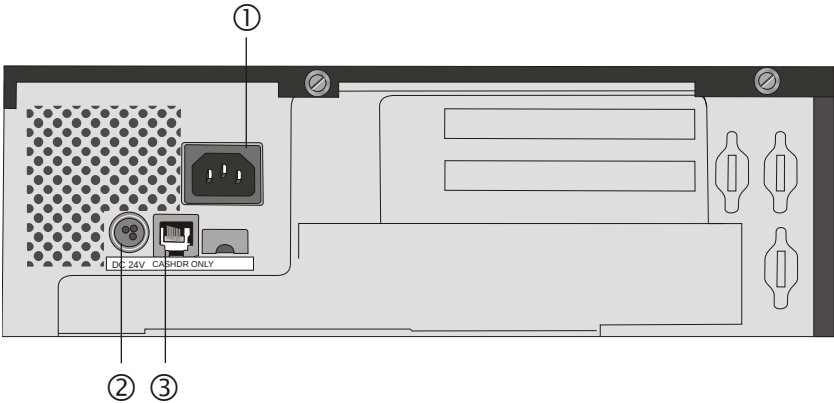
Power Supply

The power supply can be connected to all conventional power supply networks. It automatically adjusts itself to the particular voltage and is fan-cooled. The power output of the power pack is maximum 304 W.



The Power Supply Unit (PSU) carries the 80plus bronze certificate. So, less energy is needed and less noise is generated as the fan is much lesser activated with a low revolution speed.

Connector Panel



①	Power connector
②	DC24V (Power supply for the printer, HOSIDEN socket)
③	RJ12 (Cashdrawer socket)

At the front side of the box you will find the ON button to switch on the system.

The system is automatically switched off, when the operating system is shut down. Pushing (approx. 5 seconds) the ON button at any time will shut down the system. The proper function of the On button is defined by the settings of the operating system and the BIOS. The power cord receptacle and the power socket for the printer are located on the back of the BEETLE system.



The power pack must be removed or replaced by authorized qualified personnel only. Only replace power packs released by Wincor Nixdorf.



To disconnect the device from the supply voltage completely, switch off the device and disconnect the power plug.

Power Connector

This connector provides the power. Connect the according end of the power cable to this port and the other end to the power socket.

Pull the mains plug to power-off the device.

DC24V (Modular Printer)

Appropriate POS printers can be connected via the low-voltage jack 24V, max. 3A via non-UPS. A connecting cable with a HOSIDEN plug is required for this.



Connect only cables to the 24V connector which are marked with DP-1 or DP-2.



Do not connect the HOSIDEN plug when the system is turned on, this can lead to an automatical reboot of the system.

RJ12 (CASHDR)

The power supply unit has one RJ12 socket for connecting a cash drawer. Make sure that the connector is plugged firmly into the socket to prevent malfunctioning. RJ12 plugs lock in when you insert them. Power is supplied to the cash drawer via this socket, P24V +5% / -15%.

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