

C-ZAM XENTA

The next
generation is
square



Ergonomic design

Two processors on one chip

Full-featured Linux operating system

Rapid application development in C and Java

Diverse communication enhancements

*bank*sys
end-to-end transactions

C-ZAM/XENTA

The C-ZAM/XENTA™ is Banksys' newest countertop POS-terminal.

Squaring unrivalled technology with an unprecedented design, the terminal illustrates Banksys' continuous efforts to enhance payment.

The terminal is indeed easy to install, easy to use, easy to maintain.

The backbone of the C-ZAM/XENTA is a System-on-Chip architecture, featuring an ASIC with two dedicated processors.

Completed with a full-featured Linux operating system, this provides the terminal with the superior performance, transaction speed, security and development capabilities it requires.



A TERMINAL FOR ALL

The C-ZAM/XENTA terminal is designed to meet the most stringent requirements of the market. It is a powerful terminal on which multiple applications, payment as well as non-payment, can run simultaneously. It is, of course, capable of processing all types of magnetic stripe and chip cards including credit cards and debit cards, but also stored-value cards (e-purse), loyalty cards, private label cards, social security cards or identity cards.

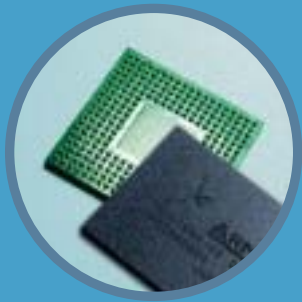
With regard to the design, the terminal can be considered as rather revolutionary, from an aesthetic, an ergonomic as well as a technological perspective. Undoubtedly striking and unprecedented in this market are the shape of the terminal, its integrated privacy shield, its uncomplicated keypad and its prominent display.

The terminal is compact, yet very powerful; it offers first-class functionality, yet it is easy to install, to use and maintain; it combines unparalleled security features with well-thought ergonomics; it integrates technological innovation with great stability and efficiency.

Special consideration has been given to the guidelines of the American Disability Act (ADA) and similar organisations to support terminal accessibility for everyone.







A POWERFUL ENGINE

To power its C-ZAM/XENTA terminal, Banksys has designed a brand new chip. This ASIC incorporates two dedicated processor cores. This bi-processor/mono-chip solution allows harmonisation of the most essential requirements: watertight security and the capability of running multiple applications. The operating system running on the C-ZAM/XENTA terminal is a full-featured Linux system. The established Linux development environment, completed with the Banksys simulator and the necessary documentation, allows for easy and rapid application development in Native C or Java on a “standard” Linux PC.

FLEXIBLE COMMUNICATION FACILITIES

The communication capabilities of the terminal are very diverse and are implemented in a modular way. By default, high-speed dial-up, Ethernet and a set of serial interfaces are available. Connection to numerous peripherals is possible including the Merchant Unit, Electronic Cash Registers, PCs, barcode readers, cheque readers, biometrics modules, etc. Interface boards are available for additional means of communication with the host and peripherals including ISDN, GSM/GPRS or USB. These boards can be inserted in the terminal at any time.

AN UNEQUALLED SECURITY SYSTEM

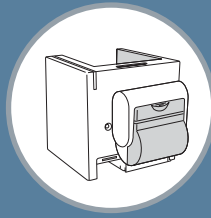
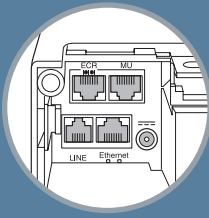
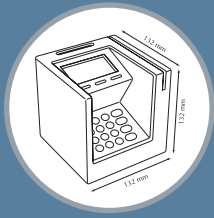
In true Banksys tradition, the C-ZAM/XENTA is once again at the leading edge of security technology. A comprehensive security system has been implemented, with measures taken in the ASIC, in the physical design of the terminal and in the software. The system ensures permanent protection of sensitive information and instantaneous erasure of sensitive data if tampering is detected. The most tangible security feature, the privacy shield, has been integrated in the basic design of the C-ZAM/XENTA thus providing a proven protection against shoulder surfing while entering a PIN.

A WIDE CHOICE OF ACCESSORIES

To meet the merchant needs, the C-ZAM/XENTA can be equipped with a variety of features such as:

- A fast thermal graphic printer, attached to the rear of the terminal.
- A Merchant Unit with integrated printer, to facilitate the merchant’s tasks.
- A fixation plate to attach the C-ZAM/XENTA terminal e.g. to the counter-top.
- A swivel to easily turn the terminal towards its user.





TECHNICAL SPECIFICATIONS

C-ZAM/XENTA TERMINAL

CARD INTERFACES

- Chip-card interface conforming to EMV 4.0 level 1
- Triple-track magnetic-stripe reader (ISO 1/2/3)

CHIP SECURITY MODULES (CSM)

- 4 slots type ID 0

BACKLIT GRAPHIC DISPLAY

- 128 x 64 pixels

PROCESSING CAPABILITIES

- 2 x 32 bit ARM™ processor cores
- 32 Mbytes RAM memory
- 32 Mbytes Flash memory

INTERFACES FOR:

- Electronic Cash Register or other serial peripherals (ECR)
- Merchant Unit (MU)
- Dial-up modem with a communication speed of up to 57.600 bps (LINE)
- Ethernet, for a TCP/IP connection over a LAN network (Ethernet)

POWER SUPPLY VIA ADAPTER

- 100 - 250 VAC, 47 - 63 Hz

DIMENSIONS

- 132 x 132 x 132 mm (w x h x l)

WEIGHT

- 740 g

SOFTWARE

- Embedded Linux® operating system
- Linux-based development kit for easy and rapid application development in Native C and Java

- Speed up developments by integrating existing open source code e.g. SSL to secure internet payments

- Secured download of software via the Remote Terminal Load server

ENVIRONMENTAL CONDITIONS

- Operating temperature 0°C to +50 °C
- Operating humidity 20% to 85%

APPROVALS

- EMV 4.0 level 1 for all chip-card interfaces
- EMV 4.0 level 2 approved kernel for payment application development
- CE
- EMC
- TNO and T-Systems security evaluation
- PCI PED

C-ZAM/XENTA INTERFACE BOARDS

EURO ISDN

- TCP/IP protocol (PPP) over B-channel
- X.25 protocol over B-channel and D-channel

GSM

- Dual-band 900 MHz/1800 MHz Internal GSM/GPRS modem
- Dual-band 850 MHz/1900 MHz Internal GSM/GPRS modem
- SMS capability
- External antenna

C-ZAM/XENTA THERMAL PRINTER

- Easy-paper-load mechanism
- Paper 58 mm width, 30 m length
- Speed: 15 lines/s



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