

C-ZAM SMASH DESKTOP

The leading edge in secure
payment terminals

TECHNICAL SPECIFICATIONS OF THE BASE UNIT

2 X 32-BIT PROCESSORS

- ARM™ security processor
- Intel™ application processor

MEMORY

- 8 Mbytes of RAM
- 12 Mbytes of flash memory

CHIP CARD READER

- EMV 3.1.1 compatible

MAGNETIC STRIPE CARD READER

- ISO 1-2, 2-3 compatible

CSM (CHIP SECURITY MODULE)

- 4 slots (type ID 0)

EXTERNAL INTERFACES FOR

- Printer
- Electronic cash register (ECR)
- Merchant unit
- Barcode reader

BACKLIT GRAPHIC DISPLAY

- 122 x 32 pixels

CERTIFICATES

- CE, FCC, Metlab
- EMV 3.1.1. level 1
- EMV 4.0 level 2 approved kernel available for payment application development
- Visa PED (PIN Entry Device)

DIMENSIONS

- Height: 67 mm
- Width: 87 mm
- Length: 172 mm

WEIGHT

- 375 g

SOFTWARE

- Toolbox: a set of libraries for fast application development using Java™ and C languages
- Secured uploading of software possible

TECHNICAL SPECIFICATIONS OF C-ZAM/SMASH OPTIONS

THERMAL PRINTER

- Click-on mechanism
- Connected to base unit or merchant unit
- Easy paper loading mechanism
- Speed: 25 mm/s

PSTN MODEM

- V 90 (up to 57.600 bps)

EURO-ISDN ADAPTOR SUPPORTING

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

RS232 CARD

- Connection to an external modem

ETHERNET CARD

- TCP/IP connection over UTP LAN network

GSM/GPRS CONFIGURATION

- Dual band 900-1800 MHz internal GSM/GPRS modem
- Dual band 850-1900 MHz internal GSM/GPRS modem



Multifunctional payment terminal
Modular design
Open Java architecture
Ultimate security

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banksys
end-to-end transactions

C-ZAM/SMASH DESKTOP

The C-ZAM/SMASH™ Desktop is a highly successful secure payment terminal from Banksys, the first mover in payment technologies. Designed with the widest range of payment applications in mind, the C-ZAM/SMASH Desktop has a modular design for ultimate versatility, a totally open architecture for integration into any existing payment system, and the total security that customers across the world have come to expect from Banksys. The C-ZAM/SMASH Desktop is part of the Banksys C-ZAM/SMASH range of products, which also includes the C-ZAM/SMASH Portable and C-ZAM/SPIN™ terminals.



MULTIFUNCTION OPERATIONS

The C-ZAM/SMASH Desktop is designed to perform the full range of terminal-based applications, from card reading to chip programming. With the rapidly increasing range of smartcard applications, the C-ZAM/SMASH Desktop offers total flexibility for the development of new applications and easy integration into various configurations.

C-ZAM/SMASH Desktop applications include:

- Credit and debit payments
- Stored-value payments
- Health programs
- Electronic identity cards
- Smart vouchers
- Access control
- Loyalty programs
- Custom applications

Furthermore Banksys offers eLOYSE, a flexible and dynamic off-the-shelf package designed to speed up the implementation of custom applications.

OPEN ARCHITECTURE

The C-ZAM/SMASH Desktop terminal uses a UNIX operating system and provides built-in support for Internet protocols such as TCP/IP. It can also be equipped with a full-featured Java Virtual Machine.

Terminal distributors can develop new applications for the C-ZAM/SMASH Desktop using the existing range of Java or C development tools without interfering with, or even changing, the existing applications running on the terminal. It provides an open architecture enabling customers to develop their own applications for systems such as loyalty programs, ticketing or customer profiling.

In addition, all applications developed on the C-ZAM/SMASH Desktop can be ported to the C-ZAM/SMASH Portable and C-ZAM/SPIN, Banksys' unattended terminal. The C-ZAM/SMASH Desktop is designed to work with a Remote Terminal Load server (RTL), allowing partial or full updates of operating systems, security functions and applications from a single Network Operations Centre.

MODULAR DESIGN

The C-ZAM/SMASH range contains the most versatile terminals on the market and is designed to be used across the ever-expanding range of smartcard applications. The base unit can be used in isolation or with a range of peripherals and network interfaces including:

- Printer
- Merchant Unit
- PSTN card
- ISDN card
- Ethernet card
- RS 232 interface card
- GSM/GPRS card
- ECR connection

PRIVACY SHIELD

A protection shield allows the customer to enter his PIN code safely from prying eyes. Two versions exist:

- The PIN Cable Fixation Protection (PCFP) can be easily clipped to a base unit. At the same time, the PCFP can be used as a fixation plate to attach the terminal to the counter-top.
- The PIN protection cover (non removable).

READY FOR THE FUTURE

Banksys is one of the first companies to offer EMV-compliant real-life solutions. The C-ZAM/SMASH Desktop is fully certified with EMV (levels 1 & 2) and Visa PED. These EMV certifications confirm the C-ZAM/SMASH Desktop as the leading-edge solution for electronic payments and customized card application development.

THE TECHNOLOGY OF SECURITY

Banksys has built an international reputation on its commitment to security and the C-ZAM/SMASH Desktop is at the leading edge of security technology. The C-ZAM/SMASH Desktop is designed from the ground-up with security in mind. It features four internal chip card slots and the secure kernel of the Java Virtual Machine. Banksys has designed a flexible, highly secure module inside the terminal based on a dedicated security chip. This flexible ASIC module enables future security functionalities to be uploaded into the C-ZAM/SMASH Desktop. The open Java architecture allows applications to be developed on PC using the C-ZAM/SMASH toolbox of library functions. Encryption, screen layout and chip card commands are all included in the C-ZAM/SMASH toolbox to give developers the tools they need to easily develop secure applications for every environment.

