



SC 5000

Protected by  VeriShield

Unsurpassed PERFORMANCE and support for EMV SMART CARD transactions in a sleek, PROGRAMMABLE PINpad

VeriFone's SC 5000 programmable smart card PINpad breaks new ground in the payment industry. The SC 5000 packs support for EMV smart card transactions, debit, electronic benefits transfer (EBT), and stored value transactions, into a sleek, stylish device that fits comfortably in the palm of your hand.

With an EMV Level 2 Type Approved application available, the SC 5000 provides the fastest, easiest way to upgrade terminals or electronic cash registers to support global smart card solutions based on EMV specifications.

The SC 5000 is PED-compliant and offers a range of security protections including tamper-detection circuitry, VeriShield file authentication, sophisticated encryption including 3DES and AES, and the flexibility to develop virtually any key-management scheme through the use of VeriShield Security Scripts.

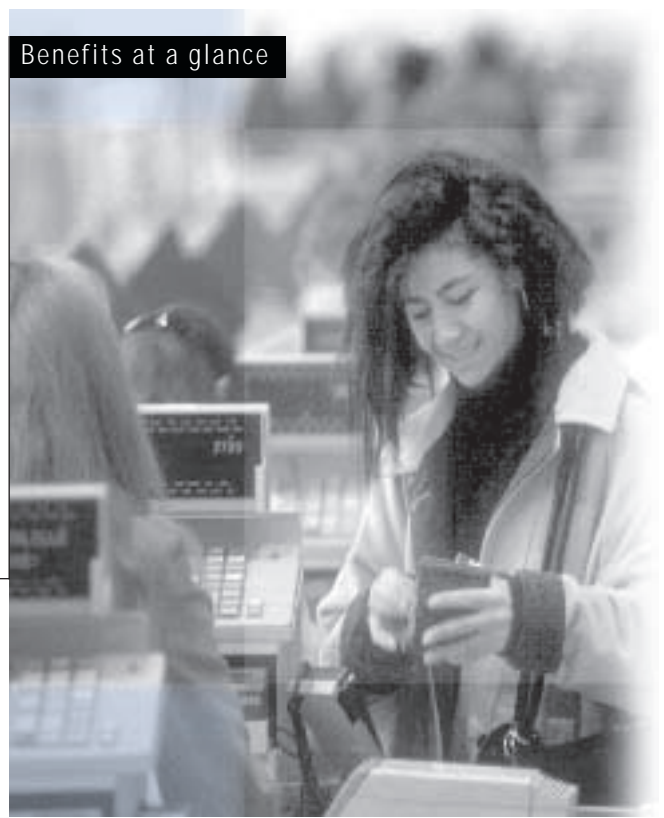
The SC 5000's user-friendly design features large keys that minimize user input errors. It also has an easy-to-read display capable of handling a variety of images, including merchant logos and graphics-based character sets.

Benefits at a glance

32-bit processing for fast EMV smart card transactions—providing a simple upgrade path for **terminals** and **electronic cash registers**

Securely supports multiple smart card-enabled applications

Sleek, stylish design for **trouble-free** customer operation



SC 5000

Fast EMV performance in an ergonomic PINpad

- 32-bit processing and ample memory deliver exceptional EMV performance.
- Securely supports multiple smart card-enabled payment and value-added applications.
- Fast transaction time even with complex EMV cryptography requirements – including Dynamic Data Authentication.
- Optional EMV Level 2 Type Approved application provides an ideal way to upgrade terminals and ECRs to handle global smart card requirements that meet EMV specifications.
- A choice of 0, 2 or 4 Security Access Module (SAM) slots enables support for a broad range of smart card-based loyalty and electronic purse schemes.
- The SC 5000 PINpad also offers an optional built-in magnetic-stripe card reader with a choice of dual-track (1, 2) or triple-track (1, 2, 3) functionality.
- Backward compatibility for existing solutions is assured with PINpad 1000 and PINpad 2000 emulation.
- VeriFone's worldwide reputation for reliability ensures long-term dependability.

Exceptional ease of use

- Bold, ergonomic design is sleek and stylish.
- The SC 5000 has the largest keys of any VeriFone terminal or peripheral, to facilitate trouble-free usage, simplify employee training and minimize customer input errors.
- Highly readable display can handle multiple languages simultaneously for global applications, and accommodates a variety of graphics-based character sets including Japanese, Chinese, Arabic, and Cyrillic.
- Backlit display is available as an option for improved readability in low-light environments such as restaurants and bars.

Critical security protection

- The SC 5000 PINpad incorporates tamper-detection circuitry to resist unauthorized intrusion, and provides a broad spectrum of software-based security features.
- Integrated security module simultaneously supports sophisticated encryption (AES, DES, 3DES, RSA) and key-management schemes, including single and 3DES Master/Session, single and 3DES Derived



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All features and specifications are subject to change without notice.

5/02 45361 Rev A 1M/DH

Specifications

Processor

32-bit microprocessor

Memory

1MB RAM

Display

2 lines x 16 characters, up to 4 lines x 20 characters, 122 x 32 pixel graphical LCD display, with optional backlighting

Magnetic Card Reader

ISO 7813 choice of dual-track (1, 2) or triple-track (1, 2, 3), bi-directional

Primary Smart Card Reader

Reads all asynchronous microprocessor cards conforming to ISO 7816-1, -2, and -3. Reads synchronous memory and protected memory cards conforming to ISO 7816-1 and -2. Reads EMV cards conforming to EMV 3.1.1 and EMV 4.0

SAM Card Reader

Choice of Security Access Module (SAM) readers—0, 2 or 4

Keypad

16 keys (with 3 programmable function keys and 3 command keys)

Serial Interface

Asynchronous serial (7/8 data bits, even/odd/no parity). Baud rate of 1,200-115,200. Compatible with RS-232 signal levels

Security

Cryptographic algorithms include: DES, 3DES, RSA, and AES. Key-management schemes include Master/Session, DUKPT and virtually any other key-management scheme through the use of VeriShield Security Scripts. All cryptography and key-management functions performed by integrated security chip. Communication between the keyboard, display, and security module is fully safeguarded.

Physical

Height: 155 mm (6.1 in.); width: 95 mm (3.7 in.); depth: 50 mm (2.0 in.); Weight: 360 g

Environmental

0° to 40° C (32° to 104° F) operating temperature; 15% to 90% operating humidity, non-condensing; -18° to 66° C (0° to 151° F) storage temperature

Power

8-20V DC; 3.7W (maximum consumption with optional backlight on)

Unique Key Per Transaction (DUKPT) and virtually any other key-management scheme through the use of VeriShield Security Scripts.

- The SC 5000 PINpad meets published specifications for PIN-entry devices (PED) and provides sophisticated file authentication, which prevents execution of unauthorized software on the PINpad.
- Optional privacy shield snaps easily into place preventing observation of PIN entry sequence.
- Robust Software Developer's Toolkit (SDTK) is available for streamlined application development and customized security solutions.