



SC 552

The versatile SC 552 Smart Card Reader/Writer handles smart card and magnetic-stripe card applications in one compact, countertop unit.

The SC 552™ supports memory and microprocessor smart cards as well as magnetic-stripe cards—including credit and debit cards—in the same application. It gives you the combined functionality of a smart card reader/writer and a magnetic-stripe card reader in a compact, affordable product. By supporting multiple payment programs and value-added services in one convenient unit, reducing clutter at the checkout stand.

And it has a second smart card slot that supports retailer chip cards for added data storage or for removable/upgradeable security modules. Like other VeriFone® smart card products, the SC 552 complies with joint specifications from Europay, MasterCard and Visa (EMV) for smart card support.

Supports A Wealth Of New Services

With the SC 552, you can offer new applications and services. You can deliver stored-value card programs that provide a new payment option. Electronic benefits transfer applications for the delivery of government entitlements. Or customer loyalty and frequent-shopper programs that reward repeat business and encourage larger transactions. These applications can help you grow your business and provide potential new sources of revenue.

Physically And Electronically Secure

The SC 552 provides the level of security you need. It can give you basic protection or, through a selection of optional hardware and software features, meet the most stringent requirements for high physical and electrical security.

The SC 552 has an integral security module, with a custom-designed encryption chip, that offers simultaneous support for encryption and key management functions. The module works with DES and RSA encryption plus Master/Session Key, DUKPT (derived unique key per transaction) and regional key management methods.

The durable, tamper-resistant plastic casing further safeguards the system against incursion. And optional, built-in detection features can sense sophisticated attempts at physical or electronic tampering. Any unauthorized attempt to access the security module results in the immediate and automatic erasure of the secret data stored in the chip.

Optional Graphics Display

The SC 552 offers an optional graphics display that supports a variety of graphic character sets, including those used in Japanese, Chinese, Arabic and Cyrillic-based languages. The display can be configured to show two lines of Chinese prompts, two lines of large characters or up to four lines of roman text. It can even display two languages simultaneously, such as French and English, for use in multilingual markets.

Supports Custom Application Development And Remote Downloading

VeriFone's SC family of products shares a common development environment, which means you can port applications written for the SC 450™ or SC 455™ Smart Card Reader/Writers to the higher functionality SC 552. Using industry-standard C language, developers also can create new applications, then download them to the SC 552 either directly or remotely through VeriFone's ZONTALK 2000™ software.

The SC 552 give you the flexibility you need to upgrade your system capabilities and add new programs and services. It lets your business change with the times, growing to meet new business needs and increased customer requirements.

SC 552

Features

- Supports a second, fully inserted smart card
- Supports memory/microprocessor smart cards and magnetic-stripe cards in the same application
- Supports industry-standard asynchronous microprocessor chip cards and synchronous memory cards
- Meets joint specifications from Europay, MasterCard and Visa for smart card support
- Performs as a PIN pad in online and offline debit transactions (with security module)
- Offers comprehensive software security and tamper-proof casing
- Offers simultaneous support for multiple key management functions
- Supports an optional graphics display and multiple character sets, including Chinese, Cyrillic and Arabic
- Complies with ANSI and ISO global standards
- Supports VeriFone MKIXOR™ software for key injection
- Works with PCs, ECRs and VeriFone terminals as well as with other manufacturers' equipment

Specifications

Hardware

Display	2-line x 16-character LCD Option: 120 x 32 dot matrix graphic display
Keypad	16 keys (with 4 programmable function keys)
Memory	128-Kbyte RAM (32 Kbyte RAM optional)
Magnetic-Stripe Card Reader	Track 1 and 2 or Track 2 and 3

Host Interface

Asynchronous serial (7/8 data bits, even/no parity)
Baud rate of 300–19,200 supported
Compatible with V.24/RS-232 signal levels

Smart Card Interface

All asynchronous microprocessor cards conforming to ISO 7816-1, -2, -3
Synchronous memory and protected-memory cards conforming to ISO 7816-1, -2

Security Module

DES, Master/Session Key and DUKPT key management operations performed by the security chip
Keys stored in security chip
Communications between keyboard, display and security module safeguarded

Physical

Height	50 mm (2.0 in)
Width	110 mm (4.3 in)
Depth	200 mm (7.9 in)
Shipping Weight	0.7 kg (1.5 lb)

Environmental

Operating Temperature	0° to 40° C (32° to 104° F)
Operating Humidity	15% to 90%, non-condensing
Storage Temperature	-18° to 66° C (0° to 138° F)

Power

7.5–15 volts DC
230 mA (maximum consumption)



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