MagneSafe™ Readers

Magstripe Data Encryption and Card Authentication

MagTek is proud to introduce the MagneSafe™ family of secure readers. These readers bear the 🔒 logo and provide a long list of security features including 3DES encryption for protection of track data and MagnePrint® card authentication technology.

For online financial applications, the MagneSafe readers offer secure internet access and user authentication, among other benefits. For POS retail applications, the MagneSafe readers facilitate PCI certification and provide end-to-end data encryption, thus providing data security and identity theft prevention for the consumer.

MagTek's current product offering includes two distinct MagneSafe readers to address multiple market requirements and user needs. The MagneSafe models include the P55 and the Full-size readers.

MagneSafe P55

The MagneSafe P55 is a portable USB magstripe reader that is small enough to carry in your pocket or laptop travel bag. It provides MagnePrint card authentication technology and full encryption of all card data. The P55 provides secure website authentication plus strong multi-factor authentication for online banking and e-commerce, plus data security for payment transactions in a POS retail environment.

MagneSafe Full-size

The MagneSafe full-size is a secure reader in one of the most popular form factors. The full-size is suitable for retail and banking applications, where it can be easily mounted in multiple positions, such as next to the computer screen or keyboard. The full-size features MagnePrint technology which enables secure transactions for credit, debit, ATM and financial gift cards, as well as ID cards, immigration and many other card documents.

The MagneSafe family of secure readers sets the benchmark for the new protected swipe experience. The MagneSafe readers implement a rich set of security features described in the table below.

Abbreviated Clear Text Data	The Partial PAN, Name, and Expiration date are available for the local application and for visual verification by the user.
Encrypted Track 1,2 & 3 data	No sensitive data is available to the user or the local application 3DES - The industry benchmark for encryption DUKPT key management - A unique single-use key for each transaction; up to 1 million distinct keys
Multiple formats	Support for legacy POS systems and applications
Reader ID	The reader Serial # can be obtained for verification
Reader Status	The reader reports its status and that of the track data
Non-resettable counter value	The reader reports the number of transactions
MagnePrint®	The reader captures the MagnePrint from Track 2
Encrypted Session ID	The reader receives and encrypts a session ID which can be used for bi-lateral authentication of the client/host and to validate time bound transactions
Clear text CRC	A clear text CRC permits local verification of message integrity
Encrypted CRC	An encrypted CRC permits host verification of message integrity
USB Interface (Configurable)	Keyboard emulation or HID interface support USB Keyboard emulation - No Driver, DLL, Control or Applet required; all Browsers supported; Hardware neutral with PC or MAC interface USB HID (Human Interface Device) – Active X Control or Applet required; Internet Explorer preferred; others available
Tamper Evident packaging	The packaging is designed to provide evidence if the reader has been opened. This evidence is a clear indication that the reader should no longer be used. But even if opened, the encryption keys cannot be extracted.

MagneSafe's list of security features offer an unprecendeted level of security unmatched by other readers in the marketplace today. MagneSafe readers guarantee the authenticity of the card and the information used for transaction authorization. Additionally, the standard 3DES data encryption ensures end-to-end data security for all magstripe card transactions.

Decryption and authentication services are available from Magensa™ LLC.

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