



## Dynamag for Retail

### Secure Card Reader Authenticator (SCRA)

For merchants that want both security and ease of use, the Dynamag Secure Card Reader Authenticator (SCRA) is MagneSafe™ secured and offers a reliable and convenient swipe path with complete security features for the peace of mind you can trust. Specifically designed to meet PCI DSS requirements to secure cardholder data, the Dynamag employs the industry standard, Triple DES encryption. This bidirectional SCRA conveniently makes any existing merchant application more secure.



**Dynamag**  
Secure card reader authenticator, USB powered and connected

### SECURE CARD SWIPE FOR TRANSACTIONS OR ACCESS

MagTek secure card reader authenticators (SCRAs) use the MagneSafe Security Architecture (MSA). The MSA has evolved exponentially from its inception in 2006 when it delivered the industry's first SCRAs for secure electronic transactions. The MSA is a digital identification and authentication architecture that safeguards consumers and their personal data. Designed to exceed PCI regulations, MSA leverages strong encryption, secure tokenization, counterfeit detection, tamper recognition, data relevance and integrity, and dynamic digital transaction signatures, which together validate and protect the entire transaction and each of its components.

A key feature of the MSA is MagnePrint® card authentication, a patented, proven technology which reliably identifies counterfeit credit cards, debit cards, gift cards, ATM cards and ID cards at the point of swipe, before fraud occurs. MSA's multi-layer security provides unmatched protection and flexibility for safer online transactions.

small-footprint  
bi-directional  
USB powered

Call a representative to learn more  
562-546-6400



## DROP-IN REPLACEMENT - EASE OF INTEGRATION

MagTek understands that development time is expensive, and that “time to market” is critical. The Dynamag is a plug-n-play USB device (USB power and connection). Dynamag is 100% interface compatible with all traditional MagTek readers and is a drop-in replacement that requires no change to the merchant’s POS software solution.

## DEVICE SECURITY - REDUCE PCI SCOPE

MagTek’s wholly owned subsidiary, Magensa, provides authentication for personal electronic devices including payment terminals, PIN entry devices, encrypting check scanners, and secure card reader authenticators. Using a proven mutual authentication technique, secured devices are programmed to generate an encrypted challenge and communicate directly to MagTek using an SSL connection. Legitimate devices can be identified and authorized for use while rogue devices can be identified and stopped before they are used to commit fraud. This exceeds PCI compliance measures. Coupled with instant encryption of cardholder data in the read head, PCI scope is greatly reduced.

## INVESTMENT FOR THE FUTURE - PEACE OF MIND

The Dynamag enables retailers to “future proof” their POS and PC-based electronic transactions that support today’s traditional applications and tomorrow’s advanced security requirements. The Dynamag gives you the flexibility to activate advanced security features through device management including card authentication, data encryption, and device/host authentication remotely when higher security is necessary.

Save time and resources with secure remote key injection and key management. MagTek’s secure infrastructure allows merchants to safely and remotely inject encryption keys. This minimizes risk, while lowering costs, eliminating the need for merchants to manage sensitive information (such as encryption keys or device configuration settings) and enhances overall operations.

Remote Services for key and device management allow for the upgrade of keys or device security settings throughout the life of the device, and remove the need for merchants to recall devices. Such flexibility provides peace of mind in knowing that merchants have maximum flexibility to manage changes in the future and the flexibility to support tomorrow’s evolving payment technologies.

## INDUSTRY STANDARD COMPLIANCE

- Remote key and device management services from MagTek are compliant with TR-39 environments
- MagTek is an official ESO (Encryption Support Organization). Visit VISA’s Global Registry of Service Providers for more details.

## Specifications

### MAGNETIC CARD READER (SCRA)

ISO 7810, ISO 7811, AAMVA  
Card speed: 4 to 60 ips  
Bidirectional read

### SECURE CARD READER AUTHENTICATOR

Open standards-based encryption 3DES (TDEA)  
DUKPT Key Management  
MagnePrint® Card Authentication  
Unique non-changeable device serial number  
Tamper Resistant Security Module (TRSM)  
Immediate card data tokenization  
Protects card data per PCI DSS requirements  
Generates dynamic data with each swipe  
Device/host authentication  
Unique, non-changeable serial number  
Time bound session IDs  
Masked data

### MESSAGE FORMAT

ASCII

### OPERATING SYSTEM

Windows plug and play device

### CONNECTOR

USB Type A plug, 6ft

### INTERFACE

USB HID; USB Keyboard Emulation

### MECHANICAL

Dimensions (LxWxH)  
Length: 3.94" (100.0mm) Width: 1.28" (32.5mm)  
Height: 1.23" (31.3mm)  
Weight: 4.5 oz. (127.57 g)

### MOUNTING

By two screws through the surface attached to the bottom of the unit and running the cable on the top of the surface

By two screws through the surface attached to the bottom of the unit and by drilling a hole in the surface for the cable and running the cable through the hole

By attaching the unit to the surface with fastening tape and running the cable on the top of the surface

### VOLTAGE/POWER

Power Input: 5V from USB bus  
Normal mode: 110 mA maximum  
Suspend Mode: 500 uA maximum

### ENVIRONMENTAL

Temperature  
Operating -30 °C to 70 °C (-22 °F to 158 °F)  
Storage -40 °C to 70 °C (-40 °F to 158 °F)  
Humidity  
Operating 10% to 90% noncondensing  
Storage 10% to 90% noncondensing  
Altitude  
Operating 0-10,000 ft. (0-3048 m.)  
Storage 0-10,000 ft. (0-3048 m.)



Founded in 1972, MagTek is a leading manufacturer of electronic systems for the reliable issuance, reading, transmission and security of cards, checks, PINs and identification documents. Leading with innovation and engineering excellence, MagTek is known for quality and dependability. Its products include secure card reader/authenticators, encrypting check scanners, PIN pads and distributed credential personalization systems. These products are used worldwide by financial institutions, retailers, and processors to provide secure and efficient payment and identification transactions. Today, MagTek continues to innovate. Its MagneSafe™ hardware architecture leverages strong encryption, secure tokenization, dynamic card authentication, and device/host validation enabling users to assess the trustworthiness of credentials and terminals used for online identification, payment processing, and high-value electronic transactions. MagTek is headquartered in Seal Beach, CA. For more information, please visit [www.magtek.com](http://www.magtek.com).

