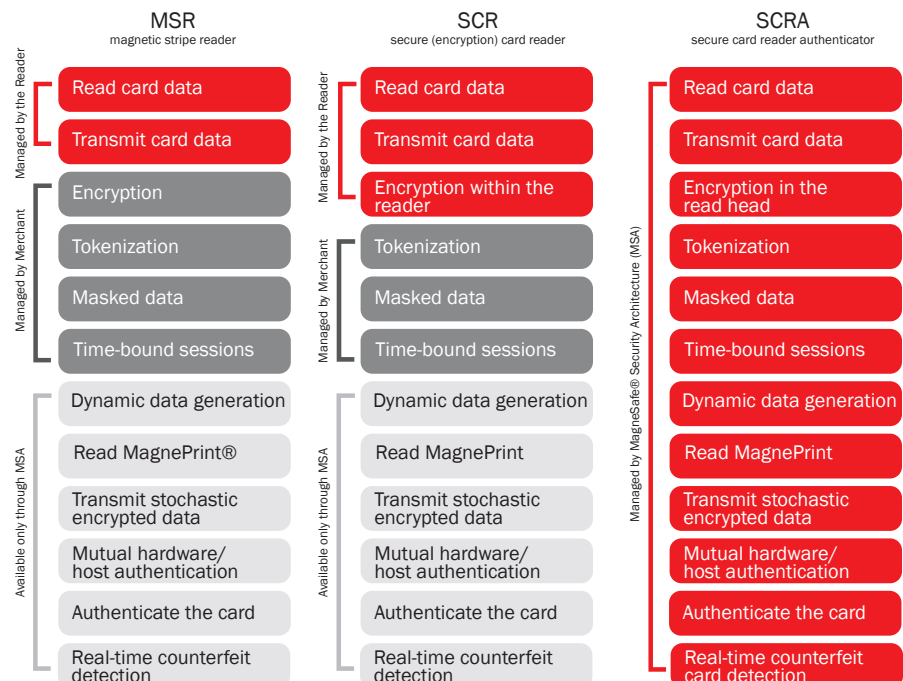


# Secure Payment Solutions

## Mobile and Countertop Device Overview

Merchants around the globe rely on MagTek's mobile Secure Card Reader Authenticators (SCRAs). MagTek's SCRAs capture more data with a single swipe and offer the reliability and flexibility retailers need for ease-of-use. SCRAs are powered by the MagneSafe® Security Architecture (MSA) which is a multi-layered secure web service solution. MSA uses dynamic card authentication, data encryption, tokenization, secure remote services, and device/host authentication to secure payment transactions. MagneSafe SCRAs pro-actively identify counterfeit cards to reduce charge-backs to merchants and exceeds PCI compliance measures

A key feature of MagneSafe 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. MagnePrint is a dynamic card authentication technology based on the unique physical properties of the magnetic stripe, also referred to as the stripe's digital identifier (DI). It provides validation that the card itself is genuine and that its encoded data has not been altered.



	Countertop Only		Mobility					PIN PED	
	Dynamag	DynaPAD	DynaFlex / Pro / Kiosk / BCR	eDynamo	iDynamo 5 (Gen II)	iDynamo 6	tDynamo (Gen II)		DynaPro Go
Payment methods									
Magstripe secure card reader authenticator 3 Track (TK1/2/3); Bidirectional   ISO 7810, 7811; AAMVA driver licenses	YES 4/6 ips to 60 ips	YES 6 ips to 60 ips	YES 6 ips to 60 ips	YES 6 ips to 60 ips	YES 6 in./s to 60 in./s (15 cm/s to 152 cm/s)	YES 4 ips to 60 ips	YES 4 ips to 60 ips		YES 6 ips to 60 ips
EMV chip contact EMVCo L1 and L2, ISO/IEC 7816	NA	NA	YES	YES	NA	YES	YES Terminal type 21 and 24		NC
EMV contactless EMVCo L1 and L2, EMV Level 1 ISO/IEC 18092, ISO/IEC 14443 (Type A/B)	NA	NA	YES	NA	NA	YES Optional battery pack is required for mobile operation	YES		NC
NFC contactless / mobile wallets ISO/IEC 14443   (Type A, Type B) C-6 EMV Contactless, Apple Pay®, Apple VAS®, D-PAS®, ExpressPay®, Google Pay, PayPass™, payWave®, Samsung Pay®	NA	NA	YES	NA	NA	YES Optional battery pack is required for mobile operation	YES		YES
Signature Capture (PIN PEDs only)	NA	NA	NA	NA	NA	NA	NA		YES but no Stylus
Reliability and Operation									
MSR / SCRA swipes	1 Million	200K	200K	250K	100,000 card swipes	200K	200K		1 Million
EMV insertions	NA	NA	200K	100K	NA	200K	100K		500K
Operating System	Windows plug & play	Windows plug & play	USB Hosts: Windows 10, Android 4.4.2 and above	Windows plug & play USB: Windows 7/8, 1/1/0 Wireless: iOS 7.1or newer, Android 4.4.2 or newer, Windows 8.1, Windows 10	iOS 8 and above	iOS 9.0+ Any OS that supports USB HID 2.0 +	iOS, Android and Window		iOS 7.1 and later Android 4.4.2 and later Windows 7, Windows 8.1, Windows 10
CPU and memory	Non-volatile	Non-volatile	K81	Non-volatile	Non-volatile	STM 32	Cortex M3, 1 MB memory		256 MBIT flash memory
Status indicators	Status LED (Green)	Status LED (Green)	Status LEDs (4) 2.3 X 1.70 in. (57.6x43.20mm) 320x240 (RGB) Dots	Wireless Status LED (Blue) Status LED (Red/Green/Amber)	NA	1 LED	Wireless (Blue) Status LED (Red/Green/Amber)		NA
Device Compatibility	Android, iOS, Windows	Android, iOS, Linux, Windows	Android, Windows	Android, iOS, Windows	Made for iOS Lightning connector devices.	iDynamo 6 with Lightning is Made for iPad and iPhone	Android, iOS, Windows		Android, iOS, Windows
General									
Connection Method	USB Type A plug, 6ft	USB Type A plug, 6ft	USB-C (USB HID 2.0) 802.11 Wireless (b/g/n) Bluetooth LE (5.0) Ethernet	Micro-USB B [HID]	Lightning	Lightning, USB Type C, micro USB (female & male)	USB Type C USB 2.0 com		Micro USB Certain standard wireless
Wireless (Frequency 2.4 MHz)	NA	NA	optional	Certain standard wireless	NA	NA	Certain standard wireless		Certain standard wireless TCP/IP over 802.11 wireless
Interface	USB	USB HID and USB KB	USB	USB, Wireless	USB-C for pass-thru charging	USB, Lightning	USB Type C with high current USB 2.0 com, Wireless		Compatible with USB 1.1 & USB 2.0 Certain standard wireless
Display	NA	2 line by 16 digit liquid crystal display (LCD)	DynaFlex Pro models ONLY BCR devices have additional barcode reader.	NA	NA	NA	NA		320x240 pixels BackLit QVGA TFT LCD; 16-bit color depth; Adaptable brightness based on ambient lighting or preset.
Secure Key Pad	NA	15-key key pad	NA	NA	NA	NA	NA		Backlit Full-travel membrane pad providing tactile feedback; 10 digits, 2 data entry keys, 3 multi-purpose function keys; ADA compliant
Optional Accessories	Mounting screws or tape	NA	NA	Retractable cable; Optional case	Cable and adapter stabilizers	Mounting bracket, battery	Optional charging dock		Optional charging station
Electrical									
Charging	None	None	USB and Optional Charging Cradle	Rechargeable Micro-USB charge Charging Time 3Hr.	USB C connector	USB 2.0 Type C Apple adapter	Rechargeable USB 2.0 charge Charging Time 1.5Hr		Micro-USB charger
Battery	No battery	No battery	Li-Po	Li-ion Polymer 800 mAh & Coin cell backup	No Battery	Li-Po 400mAh Charging Time 2-3 Hrs.	Li-ion Polymer		Li-ion Polymer; backup Lithium coin cell
Current and Power	Power via USB 100 mA max USB: 5V	Power via USB 100 mA max USB: 5V	Power through USB. Battery models required for handheld use.	Power via USB or Battery. USB: 5 VDC   ~ 500mA Battery: 3.7 VDC   > 100 mA	2.85 to 3.47 VDC from the attached iOS host 5 VDC on USB power	Power through iOS or USB. EMV/NFC Contactless requires battery pack in mobile operations	Power via USB or Battery. USB: 5 VDC		USB Port Powered via Micro-USB jack 5VDC
Security and Certifications									
Compliance (FCC, CE, UL)	YES	YES	Yes, PCI PTS POI v5.1 SCR	YES	YES	YES	YES		YES & PCI PTS 4.x & EMV Co (pending)
Data protection 3DES encryption; DUKPT key management; MagneSafe Security Architecture Unique, non-changeable device serial number	YES	YES	Yes	YES	YES	YES	YES		YES In SRED mode compliant for use in PCI-DSS and PCI P2PE environments
Tamper	Evident/Resistant	Resistent	TRSM	Evident/Resistant	Evident/Resistant	Evident/Resistant	Evident/Resistant		Evident/Resistant/Responsive
Mechanical									
Dimensions L x W x H or L x W x D	3.94 x 1.28x 1.23in. (100 x 32.5 x 31.3 mm)	5.90 x 4.00 x 1.51 in. (150 x 102 x 38 mm)	DynaFlex and DynaFlex Pro: 4.0x3.5x1.9 in.(101.6x88.9x48.3mm)  DynaFlex Kiosk/DynaFlex Pro Kiosk: 4.1x3.5x1.9 in.(103.3x 90.0x48.3mm)	2.45 x 1.52 x 0.97 in. (62.2 x 38.7 x 24.7 mm)	2.47 x 1.5 x 0.58 in. (62.7 x 38.1 x 14.7 mm)	2.75 x 2.1 x 0.73 in. (70 x 53.9 x 18.75 mm) with battery pack: 2.8 x2.24 x 1.3 in. (72.72 x 57.8 x 33.0 mm)	3.94 x 3.15 x 0.61 in. (100 x 80 x 15.5 mm)		6.1 x 2.8 x 1.0 in. (155 x 71 x 25.4 mm)
Weight	1.8 oz. (50 gr)	9.3 oz. (263.651 g)	8.4 to 10.0 oz. model dependent	2.2 oz. (60 g)	w/o adapter 1.02 oz. (28.94 g)	iDynamo 6: 0.90 oz. (25.4g) Battery pack: 1.68 oz. (47.6g)	4 oz. (133.4 g)		8.85 oz. (251 g)
Mount/Stabilizer	Mounting screws or tape	Velcro®	Micro-suction feet Kiosk models off mounting back	Optional docking station	Device adapters	Optional Multi-Device Adapter	Optional charging dock		Optional charging and docking station.
Environmental									
Operating temp	-30 °C to 70 °C (-22 °F to 158 °F)	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)	32°F to 95°F (0°C to 35°C)	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)		32 °F to 113 °F (-10 °C to 45 °C)
Operating humidity non-condensing	10% to 90%	5% to 90%	10% to 90%	5% to 90%	5% to 90%	5% to 90%	10% to 90%		10% to 90%
Storage temp	-40 °C to 70 °C (-40 °F to 158 °F)	-4°F to 140°F (-20°C to 60°C)	14°F to 140°F (-10°C to 60°C)	14°F to 140°F (-10°C to 60°C)	-4°F to 113°F (-20°C to 45°C)	32°F to 113°F (0°C to 45°C)	-4°F to 113°F (-20°C to 45°C)		14 °F to 140 °F (0 °C to 60 °C)
Storage humidity non-condensing	10% to 90%	5% to 90%	10% to 90%	5% to 90%	5% to 90%	5% to 90%	10% to 90%		10% to 90%



DynaFlex Pro BCR  
Three-way SCRA, EMV, NFC, touchscreen, barcode reader (shown here)



DynaFlex  
Three-way SCRA, EMV, NFC, tap pad (shown here)



Dynamag  
SCRA



DynaPAD  
SCRA with keypad



DynaPro Go  
SCRA, EMV, NFC and PIN Pad



iDynamo 6  
SCRA, EMV, NFC



tDynamo (Gen II)  
SCRA, EMV, NFC



eDynamo  
SCRA and EMV chip card reader



iDynamo 5 (Gen II)  
SCRA



## Better Stability - Faster, Easier Transactions

MagTek's mobile SCRA devices are rugged, and the ergonomic design provides a smooth, stable swipe path for reliable card reading, yielding the highest read reliability on first pass.

## Exceed Compliance Measures

A secure card reader authenticator (SCRA), is a magnetic stripe card reader that conforms to ISO standards and may include additional read capabilities (like EMV and NFC). In addition to reading multiple tracks of data from a magnetic stripe card, SCRA's also include MagnePrint technology. The MagnePrint data will be included with the track data on each transaction. To maximize card security, the Readers incorporate data encryption within the reader to protect the card contents and MagnePrint information.

When a card is swiped through the SCRA, the track data and MagnePrint information will be TDEA (Triple Data Encryption Algorithm, aka, Triple DES) encrypted using DUKPT (Derived Unique Key Per Transaction) key management. This method of key management uses a base derivation key to encrypt a key serial number that produces an initial encryption key which is injected into the Reader prior to deployment. After each transaction, the encryption key is modified per the DUKPT algorithm so that each transaction uses a unique key. Thus, the data will be encrypted with a different encryption key for each transaction.

## Durable, Reliable, Easy Integration.

Simple device connection and a reliable swipe path, make training fast, which is vital in seasonal businesses or retailers with higher turnover rates. Designed for simplicity, mobile SCRA's allow retailers to focus on business with direct integration into existing POS terminals and existing merchant accounts. MagTek offers a comprehensive platform of drivers, APIs, and SDKs for fast development and easier integration.

## Enterprising Solutions

Remote device authentication and management makes for easier upgrades while allowing on location payment. Consolidate your vendor payment platforms for a more consistent and professional experience. One payment type at your venue for a polished feel. Run your entire business from one device, with consolidated reporting, custom receipts (Virtual Terminal), account management system, and payment processing platform. White label customization is available.

## Mobile Merchants mPOS - Accept more sales

MagTek mobile SCRA's deliver instant encryption so your customers' sensitive card details never enter your phone or tablet. The data is sent securely over TLS connections for decryption, authentication, and processing. SCRA's are the ONLY readers that can perform real-time counterfeit card detection and encrypt the card data within the read head. This puts the convenience back into POS without sacrificing security.

- Mobile merchants can leverage the power of their mobile products without the worries of handling or storing sensitive card data at any time.
- Bring mobile payments to a new level, with pop-up stores, tent sales, high end /high dollar on-floor retail, and drive-thru service.
- Multiple users, fleet sales management, private limo services, cab companies, car fleets, in-flight payments, and tour guides can all use mobile POS.
- Merchants can bring the products directly to their customers and let them pay the way they want to pay, easily and securely.
- Card payments for home delivery, catering, and service calls are made simple.
- Mobile SCRA's deliver a POS that fits in the palm of the hand, and allows merchants to setup shop almost anywhere, for in-person direct sales and payment.
- Retailers can move beyond the register and offer simpler personal shopper experiences, faster table turnover rates, faster checkout, and pay at the table offerings.
- Mobile SCRA devices in-store create line-busting service for busy seasons and enhance the customer experience by making every guest feel like they are part of the family with greet and check in stations.
- Non-profits can improve fund-raising events and donations at the door.
- Whether you are an on-the-road sales force, or a company of one, MagTek mobile devices are priced to meet the scale of your business.

Bring the POS terminal to your customers to ease their mind and make the process faster and easier. Easier and faster acceptance makes for increased sales and increased customer referrals. Cards never leave the customer's sight, which also reduces wait times. Customers will be impressed with technology used to simplify their purchase and improve service. Employees will enjoy the sturdy swipe path and intuitive, user-friendly devices.