



eDynamo

Secure card reader authenticator for
Magstripe and EMV

eDynamo, MagTek's newest secure card reader authenticator, gives users the flexibility needed to securely accept a variety of payment card technologies. Whether accepting a traditional magnetic stripe card or a contact EMV card, eDynamo gives merchants the ability to connect via USB or via Bluetooth LE, delivering one reader for mobile or stationary needs. This design leads to saving the user money on a single, low-cost, yet highly secure device.

The dual interface delivers compatibility for traditional Microsoft Windows computers in addition to certain Bluetooth LE compatible tablets and smartphones. The low energy consumption extends the life of its rechargeable battery when interfacing via Bluetooth LE, and the USB wired connection keeps eDynamo up and running without worrying about battery life. eDynamo is a flexible, reliable, and secure card reading solution.

Ideal for merchants and financial institutions, eDynamo offers the MagneSafe® Security Architecture with the convenience of a Bluetooth LE interface. This powerful combination assures card data protection, transaction security and convenience needed to secure mobile applications with strong encryption and proven card authentication.

Freedom of Placement.

eDynamo can be used as a mobile or countertop payment device, allowing the cardholder or operator to swipe or insert the card. The rechargeable battery gives users the freedom they need to operate eDynamo as a Bluetooth LE device while taking payments on the go, or to utilize its wired USB interface and power to operate while connected to a PC or tablet-based POS system where a USB Host and power are available.



eDynamo

Secure card reader authenticator reads
magstripe and EMV cards, connection via
Bluetooth LE and USB



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Simple Installation and Integration.

eDynamo offers versatile mounting options. It can be mounted or hand held and offers an optional docking station to extend the swipe path. It requires no wire management and/or hole drilling.

MagTek offers a suite of Software Developer Kits (SDKs) for iOS mobile, Android and Windows operating systems. eDynamo communicates via USB HID or Bluetooth LE. Take the device out of Airplane Mode and configure the desired I/O option. As a USB HID device, eDynamo is backward compatible with other MagneSafe V5 devices like Dynamag. As a Bluetooth LE device, eDynamo is backward compatible with DynaPro Mini.

Swipe Once. Swipe Right.

eDynamo is ergonomically designed for maximum first time read rate, using well defined head pressure, well defined slot width and an attractive rubberized finish.

Secure your Investment.

eDynamo combines a MagneSafe secure card reader authenticator (SCRA) with a contact EMV card reader, so users can accept both magnetic stripe and EMV transactions with a single, affordable device. Combining MagnePrint and EMV technologies, users can be assured of maximum card data and transaction security.

Features:

- Built-in lanyard attachment
- Ergonomic design simplifies card swiping
- No cable to interfere with reader grip
- Over 1000 card swipes between charges



Optional Docking Station
Part Number: 21079809 (shown)

Specifications	eDynamo
Payment methods	
Magstripe secure card reader authenticator Triple Track (TK1/2/3); Bidirectional read ISO 7810, 7811; AAMVA driver licenses	YES 6 ips to 60 ips
EMV chip contact EMVCo L1 and L2 ISO/IEC 7816	YES
EMV contactless EMVCo L1 and L2, EMV Level 1 / C-2/C-3/C-4/C-5 ISO/IEC 18092, ISO/IEC 14443 (Type A/B)	NA
NFC contactless / mobile wallets ISO/IEC 18092, ISO/IEC 14443 (Type A, Type B) C-1/ C-6/C-7 - D-PAS®, PayPass™, payWave®, ExpressPay®, Apple Pay®	NA
Reliability and Operation	
MSR / SCRA swipes	100K
EMV insertions	100K
Operating System	Windows plug & play USB: Windows 7/8.1/10 Bluetooth LE: iOS 7.1 or newer, Android 4.4.2 or newer, Windows 8.1, Windows 10
CPU and memory	Non-volatile
Status indicators	Bluetooth LE Status LED (Blue) Status LED (Red/Green/ Amber)
Device Compatibility	Android, Windows, iOS
General	
Connection Method	Micro-USB B [HID]
Wireless (Frequency 2.4 MHz)	Bluetooth LE
Interface	USB, Bluetooth LE
Display	NA
Secure Key Pad	NA
Optional Accessories	Cable - Optional docking station
Web services	Magensa Services
Electrical	
Charging	Rechargeable. Micro-USB charge. Charging Time 3Hr.
Battery	Li-ion Polymer 800 mAH and coin cell backup.
Current and Power	Power via USB or Battery. USB: 5 VDC ~ 500mA Battery: 3.7 VDC < 100 mA
Security and Certifications	
Compliance (FCC, CE, UL)	YES
Data protection 3DES encryption; DUKPT key management MagneSafe Security Architecture Unique, non-changeable device serial no.	YES
Tamper	Evident/Resistant
Mechanical	
Dimensions L x W x H or L x W x D	2.45 x 1.52 x 0.97 in. (62.2 x 38.7 x 24.7 mm)
Weight	2.2 oz. (60 g)
Mount/Stabilizer	Optional docking station
Environmental	
Operating and storage temp	32 °F to 113 °F (0 °C to 45 °C)
Operating and storage humidity non-condensing	5% to 90%



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, token generators, EMV contact, contactless and NFC reading devices, encrypting check scanners, PIN pads and distributed credential personalization systems for secure magstripe and EMV enabled cards. 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 Security 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.

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