

MAGTEK®
SECURITY FROM THE INSIDE



tDynamo (Gen II) Key Features

Secure card reader authenticator

- Bi-directional magstripe card reading
- EMV Contact Chip
- EMV Contactless Cards
- NFC Contactless Devices/Wallets

Compatible Operating System and Connections

- Android, iOS, and Windows
- Bluetooth LE
- USB

MagneSafe® Security Architecture

- Triple DEA encryption
- DUKPT key management
- Tokenization
- Authentication



tDynamo (Gen II) shown here in docking stand PN 21079820 (docking stand sold separately)

tDynamo (Gen II) Secure Card Reader Authenticator

tDynamo (Gen II) is the next generation of secure card reader authenticator with updated EMV certification and the added functionality in supporting Apple VAS. Accept classic plastic to mobile wallets and just about everything in between. Point-of-service and point-of-sale needs to be fast, reliable, and secure, tDynamo (Gen II) is a simple way to make this happen in a small, versatile device. tDynamo secure card reader authenticator accepts magnetic stripe, EMV Contact Chip, EMV Contactless, and NFC Contactless transactions in a small compact form factor. tDynamo (Gen II) connects via USB or Bluetooth LE (iOS or Android only), making it the perfect solution for Windows, Android, or iOS devices.

Designed for Business

tDynamo (Gen II) offers a sleek design engineered to work in today's changing retail and banking environments. Whether you are offering concierge service, pay-at-the-table, line-busting solutions, centralized countertop, or roaming teller solutions, tDynamo (Gen II) lets you set the trends instead of trying to keep up.



OTTERBOX

MagTek uniVERSE Clip part number 21087015 (phone and SCRA not included)



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562-546-6400



Mobile, Fixed, or custom

tDynamo (Gen II) card reader and its optional charging stand allow you to go from countertop-mounted to a handheld device quickly and without the use of tools. In the stand, tDynamo (Gen II) can be fastened with a security latch and the stand can be hard-mounted to the counter. Integrated into a host partner cases and holsters, tDynamo (Gen II) delivers the versatility you need. Out of the stand or custom holsters, tDynamo (Gen II) is ready for mobility or secure it using the MagTek Otterbox® uniVERSE clip.

tDynamo (Gen II) and the MagTek uniVERSE Clip

In partnership with Otterbox®, a privately-owned consumer electronics accessory company that produces water-resistant, shock-resistant, and drop-resistant cases for mobile devices, MagTek has engineered the tDynamo (Gen II) uniVERSE Clip. The MagTek uniVERSE Clip is made to take advantage of OtterBox cases using the uniVERSE Clip, making it easier to have swappable modules.

Security in Mind, Services at the Ready

MagneSafe Security Architecture provides the maximum security at the minimum cost, both in total dollars and implementation effort. Data is protected using a layered approach with encryption, tokenization, authentication, and dynamic data, so card data is protected at the moment the card is swiped. Proven triple DES end-to-end encryption and industry-standard DUKPT key management allow for greater platform flexibility.

Magensa Gateway For Simplified Integration

Using Magensa Gateway services, tDynamo (Gen II) is made easier to integrate into omnichannel platforms. Magensa Payment Protection Gateway and Tokenization Services are an extensive set of web services used by integrators and software developers to secure point-of-sale (POS) systems and other sensitive data in mobile, eCommerce, and traditional brick-and-mortar settings. Development is made easier with Magensa and MagTek's well documented Software Development Kits (SDKs), technical documentation, APIs, and sample code. MagTek SDKs have no royalties or maintenance fees and are free to redistribute.

Specifications	tDynamo (Gen II)
Payment methods	
Magstripe secure card reader authenticator Triple Track (TK1/2/3); BiDirectional read ISO 7810, 7811; AAMVA driver licenses	4 ips to 60 ips
EMV Contact Chip EMVCo L1 and L2 ISO/IEC 7816	Terminal type 21 and 24
EMV Contactless : EMVCo L1 And L2, EMV Level 1; ISO/IEC 14443 (Type A/B)	
NFC Contactless / Mobile Wallets ISO/IEC 14443 (Type A, Type B) C-6; EMV Contactless, Apple Pay®, D-PAS®, ExpressPay®, Google Pay, PayPass™ payWave®, Samsung Pay®, supports Apple VAS®	
Reliability and Operation	
MSR / SCRA swipes	100K
EMV insertions	100K
Compatible Operating System	iOS, Android, Windows
CPU and Memory	Cortex M3, 1 MB memory
Status Indicators	Contactless LEDs (green); Status LED (Red/Green/Blue/ Amber)
Device Compatibility	iOS, Android, and Windows select devices
General	
Connection Method	USB 2.0; Bluetooth LE
Interface	USB Type C with high current USB 2.0, Wireless
Electrical	
Charging	Rechargeable USB 2.0 charge Charging Time:4.2Hr
Battery	Li-ion Polymer
Current and Power	Power via USB or Battery. USB: 5 VDC
Security and Certifications	
Compliance (FCC, CE, UL)	YES
MagneSafe Security Architecture; 3DES encryption; DUKPT key management; Unique, non-changeable device serial number	YES
Tamper	Evident/Resistant
Mechanical	
tDynamo (Gen II) Dimensions L x W x H or L x W x D	3.94 x 3.25 x .61 in. 100 x 82.5 x 15.5mm
tDynamo (Gen II) Weight	Reader: 3oz (83g) with stand: 1.0oz (285 g)
Mount/Stabilizer/Accessory	Charging stand, OtterBox uniVERSE Clip
Environmental	
Operating and storage temp	32°F to 113°F (0°C to 45°C)
Operating and storage humidity non-condensing	10% to 90%



Founded in 1972, MagTek is a leading manufacturer of electronic systems for the reliable issuance, reading, transmission and security of cards, barcodes, 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, Quantum secure cards, token generators, EMV contact, contactless, barcode 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, payment processors, and ISVs to provide secure and efficient data privacy, as well as 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 on-line identification, payment processing, and high-value electronic transactions. MagTek is headquartered in Seal Beach, CA.

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