



tDynamo (Gen II)

Three-way Secure Card Reader Authenticator

tDynamo (Gen II) is the next generation of tDynamo SCRA's with the added functionality of accepting Apple VAS and equipped with updated EMV certification. tDynamo (Gen II) is ideal for reading magnetic stripe cards, contact and contactless EMV cards, and NFC mobile wallets for line-busting or centralized countertop payment solutions. Point-of-service and point-of-sale needs to be fast, reliable and secure. tDynamo (Gen II) is a simple way to take a wide variety of payment methods, in a small, versatile device. This versatile reader has an easy to understand design.

Mobile or Fixed

tDynamo (Gen II) allows you to go easily between a fixed platform to a mobile platform, giving you the flexibility your application and environment might need. The optional docking stand mounts to counters with one screw and nut, making installation simple. tDynamo (Gen II) uses very little counter real estate.

Accept Multiple Payment Methods

With all of the payment methods in the market today, tDynamo (Gen II) delivers. Now you can accept classic plastic to mobile wallets and just about everything in between.

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Sleek and secure, a three-way reader (MSR/ICC/Contactless) and USB 2.0 interface type C. Shown here mounted on the optional charging dock.

Secure card reader authenticator for:

- Secure magnetic stripe
- EMV chip contact and contactless
- NFC contactless

Connection

- Bluetooth LE
- USB 2.0





Designed for Business

tDynamo (Gen II) offers a sleek design engineered to work in today's changing retail environments. Whether you are offering concierge service, pay at the table, line-busting solutions, or anything else, tDynamo (Gen II) lets you set the trends instead of trying to keep up. Although in a small form factor, it delivers a long smooth swipe path with excellent performance and one of the highest first swipe read rates in the industry. The chip card insertion path is smooth and easy to access, and the contactless pad is sleek and simple.



Security in Mind

Data is protected and encrypted the moment it is swiped, so clear data never enters your system. Proven 3DES end-to-end encryption and industry-standard DUKPT key management allow for greater platform flexibility. Ask a representative for more information about our line of security services including data protection, gateways, tokenization, and applications.



Simplified Integration

MagTek understands the value of easy-to-use and 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 with your application. Use our Magensa Services MagneFlex browser or thick client application for even easier development across operating systems. tDynamo (Gen II) works with Magensa Services including authentication, encryption, and gateway services.



MagneSafe Security Architecture

The MagneSafe® Security Architecture provides the maximum security at the minimum cost, both in total dollars and implementation effort. MagneSafe delivers a layered approach to transaction security, and combines encryption, tokenization, authentication and dynamic data to protect card data at the moment the card is swiped.

Specifications	tDynamo (Gen II)
Payment methods	
Magstripe secure card reader authenticator Triple Track (TK1/2/3); Bidirectional read ISO 7810, 7811; AAMVA driver licenses	YES 4 ips to 60 ips
EMV chip contact EMVCo L1 and L2 ISO/IEC 7816	YES Terminal type 21 and 24
EMV contactless EMVCo L1 And L2, EMV Level 1 ISO/IEC 14443 (Type A/B)	YES
NFC Contactless / Mobile Wallets ISO/IEC 14443 I (Type A, Type B) C-6 EMV Contactless, Apple Pay®, Apple VAS®, D-PAS®, ExpressPay®, Google Pay, PayPal™ payWave®, Samsung Pay®	YES
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	iPad, iPhone, Android, Windows select devices
General	
Connection Method	USB 2.0; Bluetooth LE
Wireless (Frequency 2.4 GHz)	Bluetooth LE
Interface	USB Type C with high current USB 2.0, Wireless
Display	NA
Secure Key Pad	NA
Optional Accessories	Optional charging stand
Web services	Magensa Services
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
Data protection 3DES encryption; RSA for L2 transaction; DUKPT key management; MagneSafe Security Architecture; Unique, non-changeable device serial number	YES
Tamper	Evident/Resistant
Mechanical	
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
Weight	Reader: 3oz (83g) with stand: 10oz (285 g)
Mount/Stabilizer	Optional charging stand
Environmental	
Operating and storage temp	32°F to 113°F (0°C to 45°C)
Operating and storage humidity non-condensing	10% to 90%