

mDynamo Secure OEM Insert Card Reader Module

The mDynamo gives users the flexibility to add a variety of identification and payment acceptance options in a compact, modular design. The small form-factor makes it easy to integrate into new or existing unattended locations including kiosks, vending, parking, or payment terminals; and is an ideal solution for mobile payment applications involving tablets and phones to accept payments almost anywhere. The card reading module is easy to incorporate into an enclosure and easily retrofits into other MagTek insertion-style reader bezels or phone and tablet enclosures. mDynamo is engineered to save the integration designer money in a single, low-cost, yet highly secure device.

Simple Integration

Using an updated bezel, the mDynamo can be added to a new design or retrofitted to an existing insertion style magstripe reader. The chip card reader and optional NFC module are certified for EMV L1 and L2. MagTek offers a variety of software developer kits (SDKs) to use with Windows, iOS and Android operating systems.

Contact Chip Card

mDynamo is an affordable and flexible card reading module. It is designed to read contact chip cards that conform to ISO 7816 standards with a modular design to connect both an optional magstripe reader/SCRA and contactless/NFC module. The board is well designed for a compact footprint while offering easily accessible SPI and UART ports with Molex connectors.

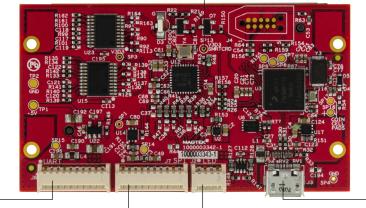
Security

The mDynamo is built on the MagneSafe™ Security Architecture which uses 3DES encryption and DUKPT key management to protect magstripe, EMV chip (contact), and NFC (contacless) card data. As an additional layer of security for magnetic stripe transactions, MagnePrint authentication and Magensa Services can be used to stop fraud by identifying counterfeit or altered magnetic stripe data in real-time.

SmartCard (contact) EMV L1 and L2 certified



Board Front



UART Port optional contactless/NFC

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Micro USB

SPI port optional IntelliHead



LED



Magensa Services

mDynamo is supported by the full suite of Magensa's Services: data decryption, card and device authentication, gateway, device configuration and key injection. MagTek provides well-defined and documented web services and several off-the-shelf applications for reader configuration on Windows, iOS and Android platforms.

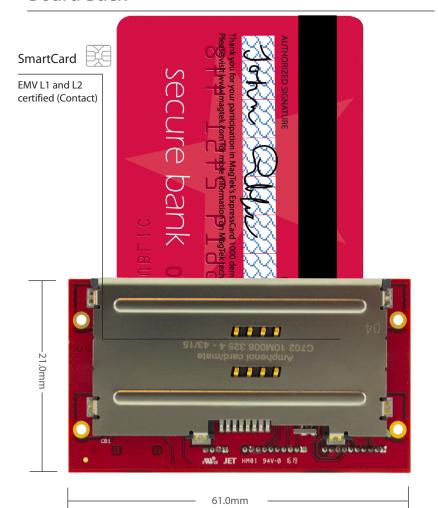
Fast Development

Invest in mDynamo and receive dedicated software, hardware, and payments support. Working with MagTek OEM is the fastest way to secure, compliant and flexible payment solutions for your custom device.

USB options

The primary communications interface is USB with secondary interfaces to incorporate optional card reading solutions where desired. The mDynamo is powered over USB so there is no need for additional cabling or external power supplies needed.

Board Back



Operating System	Windows, iOS and Android
Connection	Communicates to the host through USB
Interface	USB
Ports	1 general purpose SPI port (MSR) 1 general purpose UART port (NFC Module) UART and SPI ports pass through to host
Status Indicator	LED
	Card Types
EMV Contact	ISO 7816 standards EMV L1 and L2 certified
EMV	EMVCo L1, ISO14443 Type A/B
Contactless/ NFC Module (optional)	PayPass PayWave (EMV mode and MS mode), ExpressPay, D-PAS
MSR/SCRA (optional)	3 track AAMVA, ISO 7811
	Solutions
Security	MagneSafe Secruity Architecture 3DES, DUKPT, MagnePrint
Web Services	Magensa web services
	Reliability
Magetic Read Head Life	250,000 swipes
ICC Read Head Life	500,000 card insertions
Warranty	One year
	Electrical
Power Requirements	5 VDC on USB power
ICC Interfaces (compliance)	ISO/IEC 7816-1, 2, 3, & 4
Mechanical	
Board Dimensions	L: 61.0mm x 21.0mm
	Environmental
	Temperature
Operating	32°F to 113°F (0°C to 45°C)
Storage	14°F to 131°F (-10°C to 55°C)
	Humidity
Operating	5% to 90% without condensation at 23°C
Storage	5% to 90% without condensation at 23°C



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.