



#### iDynamo 5 (Gen II)

Made for iPhone 11 Pro max, iPhone 11, iPhone X, iPhone 8 Plus, iPhone 8, iPhone 7 Plus, iPhone 7, iPhone 6s Plus, iPad Pro 9.7-inch, iPad Pro 12.9-inch (1st generation), iPad Air 2, iPad Air, iPad mini 4, iPad mini 3, iPad (5th, 6th, 7th, and 8th generation).

# **iDynamo 5 (Gen II)** Secure Card Reader Authenticator

iDynamo 5 (Gen II) is a compact secure card reader authenticators (SCRAs) that read magnetic stripe cards that conform to ISO standards. iDynamo 5 (Gen II) models are made for iPhone and iPad devices with a Lightning interface.

In addition to reading multiple tracks of data from a card, iDynamo 5 (Gen II) has MagnePrint technology, so a card's unique MagnePrint fingerprint is included with the track data in each transaction. To maximize card security, when a cardholder swipes a card, the device encrypts card data and MagnePrint data before they leave the encapsulated magnetic stripe reader head using the Triple Data Encryption Algorithm (TDEA, also known as Triple DES).

iDynamo 5 (Gen II) models manage encryption keys using DUKPT (Derived Unique Key Per Transaction) key management. DUKPT uses a base derivation key to encrypt a key serial number that produces an initial encryption key which is injected into the device prior to deployment. After each transaction, the encryption key is modified per the DUKPT algorithm so each transaction uses a unique key. Thus, the data is encrypted with a different key for each transaction.

## Enhanced User Experience

Mobile merchants can now leverage the power of their iPad, iPhone and iPod touch products without the worries of handling or storing sensitive card data.

### Easy Integration and Implementation

MagTek provides SDKs and APIs for easier development and integration to reduce time to market. Or use our MagneFlex Browser with the SDKs "baked-in" to the browser for faster application creation.



Call a representative to learn more: 562-546-6400.

## Stability and Reliability

iDynamo 5 (Gen II) models are rugged and affordable, so it not only withstands real world use, it performs to the high standards set by MagTek, the world's most prolific supplier of secure payment technology for over 40 years. The stabilizing adapters secure the reader to your device for a more reliable and stable one-swipe read.

Adapters make attaching to your different iOS devices simple and provide more stability. iDynamo 5 (Gen II) models come with several stability adapters. Optional adapter kits are available.



# MagneSafe Security

Ideal for merchants and mobile users, iDynamo 5 (Gen II) models offer MagneSafe security features combined with the power of iPad, iPhone and iPod touch products with Lightning interface options. This powerful combination assures convenience and cost savings while maximizing card data protection and transaction security from the moment the card is swiped all the way to authorization.

No other card reader beats the protection offered by a MagneSafe product. Other devices claim to encrypt data in the reader. iDynamo 5 (Gen II) models encrypt the data inside the read head, closest to the magnetic stripe and offers additional security layers with immediate tokenization of card data and MagnePrint card authentication. This layered approach to security far exceeds the protection of encryption by itself, decreases the scope of PCI compliance, and reduces fraud.

- Uses Apple Lightning connector
- USB port allows the iOS host to charge
- Bi-directional card reading
- Reads encoded data that meets ANSI/ISO/AAMVA standards
- Reads up to three tracks of card data
- Non-volatile memory for storage of protected and settable properties
- Provides 54 byte MagnePrint value
- Contains a unique, permanent serial number for tracking
- Encrypts track data MagnePrint values
- Supports mutual authentication mode for use with Magensa





Payment methods     YES       Magstripe secure card reader authenticator trape Track (NU.20), Beliectoral real SO 2010, 7811, 7811, 7844, 94 and reformed SO 2010, 7811, 7811, 7844, 94 and reformed SO 2010, 7811, 7811, 7844, 94 and reformed SO 2010, 7814, 7814, 94 and 1000, 7844, 94 Reliability and Operation     NA       EMV contactless / mobile wallets     NA       Reliability and Operation     NA       MSR / SCRA swipes     100,000 and swipes       EMV insertions     NA       Tested Compatible Operating System     100,000 and swipes       CPU and memory     Non-votatle       Status indicators     NA       Device Compatibility     05 Lightning       Ownection Method     Lightning       Vireless (frequency 2.4 MHz)     NA       Wireless (frequency 2.4 MHz)     NA       Secure Key Pad     NA       Optional Accessories     Cable and adapter stabilizers       Web services     NA       Device (maputable device serial number (figurand Signame Signame)     YES       Optional Accessories     Cable and adapter stabilizers       Web services     NA       Security and Certifications     Security and Signame Signame Signamedity fore stabilizers       Duker	Specifications	
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Link of hip contactImage: Contact less in the second s	Triple Track (TK1/2/3); Bidirectional read	6 in./s to 60 in./s
LINY Contactless   NA     Reliability and Operation   NA     MSR / SCRA swipes   100.000 card swipes     EMV insertions   NA     Tested Compatible Operating System   IDynamo 5 (Gen II): 	EMV chip contact	NA
Reliability and Operation     Inclusion values       MSR / SCRA swipes     100.000 card swipes       EMV insertions     NA       Tested Compatible Operating System     IDynamo 5 (Gen II): .OS 8 and above       CPU and memory     Non-volatile       Status indicators     NA       Device Compatibility     IDynamo 5 (Gen II): .OS 8 and above       Connection Method     Lightning connector devices       Wireless (Frequency 2.4 MHz)     NA       Wired connection types     Device Compatibility       Display     NA       Secure Key Pad     NA       Optional Accessories     Cathe and adapter stabilizers       Web services     NA       Battery     No Battery       Voltage     285 to af y VDC from the attached (Battery)       Voltage     285 to af y VDC from the attached (Battery)       Data protection 3DES encryption; DUKPT key management MagneSafe Security Architecture Unique, non-changeable devices estain number     YES       Data protection 3DES encryption; DUKPT key management MagneSafe Security Architecture Unique, non-changeable devices estain number     247 x 15 x 05 B n. (82.7 x 38.1 x 14.7 mm)       Weight     Device adapters     247 x 15 x 05 B n. (82.7 x 38.1 x	EMV contactless	NA
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Catalase indications     Device Compatibility     Device Compatibility     Device Compatibility       Device Compatibility     Device Compatibility     Device Compatibility       Connection Method     Lightning connector devices       Wireless (Frequency 2.4 MHz)     NA       Wired connection types     Device Compatibility       Display     NA       Secure Key Pad     NA       Optional Accessories     Cable and adapter stabilizers       Web services     NA       Power Inputs     Lightning connector iDynamo 5 (Gen II); USB c connector       Battery     No Battery       Voltage     2.85 to 3.47 VDC from the attached OS host 5 VDC on USB power       Security and Certifications     Velse on USB power       Compliance (rcc, cc, uu)     YES       Data protection 3DES encryption; DUKPT key management MagneSafe Security Architecture Unique, non-changeable device serial number     YES       Tamper     Evident/Resistant       Mechanical     Device adapter       Dimensions Law K to Law X x D     Supple US NG Security Architecture Unique, non-changeable device serial number       Lingthi Law X x D     Supple US NG Security Architecture Unique, non-changeable device serial number </td <td>CPU and memory</td> <td>Non-volatile</td>	CPU and memory	Non-volatile
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Optional recession is     NA       Web services     NA       Electrical     Lightning connector       Power Inputs     Lightning connector       Battery     No Battery       Voltage     2.85 to 3.47 VDC from the attached IOS host 5 VDC on USB power       Security and Certifications     2.85 to 3.47 VDC from the attached IOS host 5 VDC on USB power       Compliance (FCC, CE, UL)     YES       Data protection 3DES encryption; DUKPT key management MagneSafe Security Architecture Unique, non-changeable device serial number     YES       Tamper     Evident/Resistant       Dimensions LxWxH or LxWxD     2.47 x 1.5 x 0.58 in. (62.7 x 38.1 x 14.7 mm)       Weight     iDynamo 5 (Gen II): w/o adapter 1.02 oz. (28.94 g)       Mount/Stabilizer     Device adapters       Operating temp     32°F to 95°F (0°C to 35°C)       Operating humidity non-condensing     5% to 90%       Storage temp     -4°F to 113°F (20°C to 45°C)	Secure Key Pad	NA
Electrical     Lightning connector       Power Inputs     Lightning connector       Battery     No Battery       Voltage     2.85 to 3.47 VOC from the attached OS host 5 VDC on USB power       Security and Certifications     2.85 to 3.47 VOC from the attached OS host 5 VDC on USB power       Compliance (Fcc, cc, UL)     YES       Data protection 3DES encryption; DUKPT key management MagneSafe Security Architecture Unique, non-changeable device serial number     YES       Tamper     Evident/Resistant       Dimensions LxWxH or LxWxD     2.47 x 1.5 x 0.58 in. (62.7 x 38.1 x 14.7 mm)       Weight     ibynamo 5 (Gen II); w/o adapter 1.02 or. (28.94 g)       Mount/Stabilizer     Device adapters       Operating humidity non-condensing     5% to 90%       Storage temp     -4°F to 113°F (20°C to 45°C)	Optional Accessories	Cable and adapter stabilizers
Power Inputs   Lightning connector     Battery   No Battery     Voltage   2.85 to 3.47 VDC from the attached IOS host 5 VDC on USB power     Security and Certifications   2.85 to 3.47 VDC from the attached IOS host 5 VDC on USB power     Compliance (FCC, CE, UL)   YES     Data protection 3DES encryption; DUKPT key management MagneSafe Security Architecture Unique, non-changeable device serial number   YES     Tamper   Evident/Resistant     Dimensions LxWxH or LxWxD   2.47 x 1.5 x 0.58 in. (62.7 x 38.1 x 14.7 mm)     Weight   iDynamo 5 (Gen II): w/o adapter 1.02 oz. (28.94 g)     Mount/Stabilizer   Device adapters     Operating temp   32°F to 95°F (0°C to 35°C)     Operating humidity non-condensing   5% to 90%     Storage temp   -4°F to 113°F (20°C to 45°C)	Web services	NA
IDWarm 5 (Gen II): USB C connector     Battery   No Battery     Voltage   2.85 to 3.47 VDC from the attached IOS host 5 VDC on USB power     Security and Certifications   VES     Compliance (FCC, CE, UL)   YES     Data protection 3DES encryption; DUKPT key management MagneSafe Security Architecture Unique, non-changeable device serial number   YES     Tamper   Evident/Resistant     Dimensions LxWxH or LxWxD   2.47 x 1.5 x 0.58 in. (62.7 x 38.1 x 14.7 mm)     Weight   iDynamo 5 (Gen II): w/o adapter 1.02 oz. (28.94 g)     Mount/Stabilizer   Device adapters     Operating temp   32°F to 95°F (0°C to 35°C)     Operating humidity non-condensing   5% to 90%     Storage temp   -4°F to 113°F (20°C to 45°C)	Electrical	
Voltage   2.85 to 3.47 VDC from the attached IOS host 5 VDC on USB power     Security and Certifications   YES     Compliance (FCC, CE, UL)   YES     Data protection 3DES encryption; DUKPT key management MagneSafe Security Architecture Unique, non-changeable device serial number   YES     Tamper   Evident/Resistant     Dimensions LxWxH or LxWxD   2.47 x 15 x 0.58 in. (62.7 x 38.1 x 14.7 mm)     Weight   ibynamo 5 (Gen II): w/o adapter 1.02 oz. (28.94 g)     Mount/Stabilizer   Device adapters     Operating temp   32°F to 95°F (0°C to 35°C)     Operating humidity non-condensing   5% to 90%     Storage temp   -4°F to 113°F (20°C to 45°C)	Power Inputs	iDynamo 5 (Gen II)
Attached IOS host 5 VDC on USB power   Security and Certifications   Compliance (FCC, CE, UL)   Pata protection 3DES encryption; DUKPT key management MagneSafe Security Architecture Unique, non-changeable device serial number   Tamper   Evident/Resistant   Dimensions LxWxH or LxWxD   Quight   Weight   Dowrd   Operating temp   32°F to 95°F (0°C to 35°C)   Operating humidity non-condensing   Storage temp	Battery	No Battery
Compliance (FCC, CE, UL)   YES     Data protection 3DES encryption;   YES     DUKPT key management   YES     MagneSafe Security Architecture   Livident/Resistant     Tamper   Evident/Resistant     Dimensions   2.47 x 15 x 0.58 in.     Lx W x H or Lx W x D   (62.7 x 38.1 x 14.7 mm)     Weight   iDynamo 5 (Gen II):     Mount/Stabilizer   Device adapters     Operating temp   32°F to 95°F (0°C to 35°C)     Operating humidity non-condensing   5% to 90%     Storage temp   -4°F to 113°F (20°C to 45°C)	Voltage	attached iOS host
Data protection 3DES encryption; DUKPT key management MagneSafe Security Architecture Unique, non-changeable device serial number   YES     Tamper   Evident/Resistant     Dimensions LxWxHorLxWxD   2.47 x 1.5 x 0.58 in. (62.7 x 38.1 x 14.7 mm)     Weight <b>iDynamo 5 (Gen II)</b> ; w/o adapter 1.02 oz. (28.94 g)     Mount/Stabilizer   Device adapters     Operating temp   32°F to 95°F (0°C to 35°C)     Operating humidity non-condensing   5% to 90%     Storage temp   -4°F to 113°F (-20°C to 45°C)	Security and Certifications	
DUKPT key management MagneSafe Security Architecture Unique, non-changeable device serial number   Evident/Resistant     Tamper   Evident/Resistant     Dimensions L×W×H or L×W×D   2.47×1.5×0.58 in. (62.7×38.1×14.7 mm)     Weight   Dynamo 5 (Gen II): w/o adapter 1.02 oz. (28.94 g)     Mount/Stabilizer   Device adapters     Operating temp   32°F to 95°F (0°C to 35°C)     Operating humidity non-condensing   5% to 90%     Storage temp   4°F to 113°F (-20°C to 45°C)	Compliance (FCC, CE, UL)	YES
Mechanical     2.47 x 1.5 x 0.58 in.       Dimensions LxWxHorLxWxD     2.47 x 1.5 x 0.58 in.       Weight     (62.7 x 38.1 x 14.7 mm)       Weight     iDynamo 5 (Gen II): w/o adapter 1.02 oz. (28.94 g)       Mount/Stabilizer     Device adapters       Operating temp     32°F to 95°F (0°C to 35°C)       Operating humidity non-condensing     5% to 90%       Storage temp     -4°F to 113°F (-20°C to 45°C)	DUKPT key management MagneSafe Security Architecture	YES
Dimensions LxWxHorLxWxD     2.47 x 1.5 x 0.58 in. (62.7 x 38.1 x 14.7 mm)       Weight <b>iDynamo 5 (Gen II)</b> : w/o adapter 1.02 oz. (28.94 g)       Mount/Stabilizer     Device adapters       Environmental     22°F to 95°F (0°C to 35°C)       Operating temp     32°F to 95°F (0°C to 35°C)       Operating temp     5% to 90%       Storage temp     -4°F to 113°F (-20°C to 45°C)	Tamper	Evident/Resistant
LxWxHorLxWxD (62.7 x 38.1 x 14.7 mm)   Weight iDynamo 5 (Gen II): w/o adapter 1.02 oz. (28.94 g)   Mount/Stabilizer Device adapters   Environmental 20%   Operating temp 32% to 95% (0% C to 35% C)   Operating humidity non-condensing 5% to 90%   Storage temp -4% to 113% f (-20% C to 45% C)	Mechanical	
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Environmental     32°F to 95°F (0°C to 35°C)       Operating humidity non-condensing     5% to 90%       Storage temp     -4°F to 113°F (-20°C to 45°C)	Weight	iDynamo 5 (Gen II): w/o adapter 1.02 oz. (28.94 g)
Operating temp     32°F to 95°F (0°C to 35°C)       Operating humidity non-condensing     5% to 90%       Storage temp     -4°F to 113°F (-20°C to 45°C)		Device adapters
Operating humidity non-condensing     5% to 90%       Storage temp     -4°F to 113°F (-20°C to 45°C)	Environmental	
Storage temp     -4°F to 113°F (-20°C to 45°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 contact, totagenerators, EMV contact, exerce tokenization, dynamic card authentication, and edvice/nost validation enabling users to assess the trustworthiness of credentials and terminals used for online identification, payment processing, and high-value electronic transactions.