cDynamo & kDynamo
Secure Card Reader Authenticators for iPad

cDynamo
SCRA Only

kDynamo
SCRA, EMV Contact/Contactless/NFC/
Apple Pay/Android Pay/Samsung Pay

cDynamo makes mobile payments and card reading easier than ever. It delivers a form fitted enclosure case with integrated secure card reader authenticator (SCRA) for iPad mini 3, iPad mini 2, iPad mini, iPad Air 2 and iPad Air to keep them safe, while enabling merchants to accept mobile payments for magnetic stripe cards. kDynamo adds EMV contactless/NFC and contact EMV chip card reading capabilities while maintaining its small footprint.

Both models offer the MagneSafe™ Security Architecture (MSA) combined with the power of iOS tablets (with Lightning interface). The MSA delivers open standards encryption with simple, yet proven derived unique key per transaction (DUKPT) key management, immediate tokenization of card data, and MagnePrint® card authentication to maximize data protection and prevent the use of counterfeit cards. Mobile merchants can leverage the power of their iOS tablets without the worries of handling or storing sensitive card data at any time. Ideal for any size merchant, this powerful combination assures convenience and cost savings while ensuring transaction security from the moment the card is swiped all the way to authorization.

Other devices claim to encrypt data in the reader. The cDynamo and kDynamo encrypt the data inside the read head, closest to the magnetic stripe and offer 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.

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

Both models are rugged, affordable and designed to perform to the high standards set by MagTek, the world's most prolific supplier of secure payment technology for over 40 years. The swipe path is optimized for a more reliable and stable one-swipe read; the insertion card slot for contact EMV cards is easy to access; and the contactless/NFC antenna is positioned to make contactless reading simple and reliable.

The cDynamo and kDynamo have no user controls. Control, status and data functions are provided by the host interface. The system requires software on the host device to direct the operation of the card reader through the application programming interface (API).

Both models feature a 100mm VESA (Video Electronics Standards Association) mounting pattern that provides fixed mounting for greater security and convenience. This allows users to deploy cDynamo and kDynamo in a variety of off the shelf semi-mobile or permanent mounts eliminating the need for expensive customization.

Charging the connected iPad is easy with a pass-through, micro-USB port that accommodates Apple certified USB cables and power bricks.

MagTek provides SDKs and APIs for easy development and integration to reduce time to market.

MagneSafe Security Architecture

- Three (3) tracks, bi-directional read
- ISO 7810/7811, ANSI/ISO/AAMVA and custom formats
- Card Speed: 6 to 60 ips (15 to 152 cm/s)
- Protects card data per PCI DSS requirements
- MagnePrint® card authentication
- Generates dynamic payment card data with each swipe
- Device/host authentication
- Unique, non-changeable serial number
- Time bound session IDs
- Triple DES open standards-based encryption
- DUKPT key management
- Immediate card data tokenization and masked data

Product Compatibility:

cDynamo
PN 21087005: iPad Air
PN 21087006: iPad mini 3, iPad mini 2, iPad mini
PN 21087007: iPad Air 2, 6th gen

kDynamo: PNs to come
iPad Air
iPad Air 2, 6th gen
iPad mini 3, iPad mini 2, iPad mini
iPad mini 4

Made for
iPad

Specifications	cDynamo	kDynamo
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	YES 4 ips to 60 ips
EMV chip contact EMVCo L1 and L2 ISO/IEC 7816	NA	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	YES
NFC contactless / mobile wallets ISO/IEC 18092, ISO/IEC 14443	Type A & B D-PAS®, PayPass™, payWave®, ExpressPay®, Apple Pay®	NA	YES
Reliability and Operation		
MSR / SCRA swipes	1 Million	250K
EMV insertions	NA	100K
Operating System	iOS 6.0.0 or newer	iOS 6.0 or newer
CPU and memory	Non-volatile	Non-volatile
Status indicators	NA	NA
Device Compatibility	Made for iPad Air, iPad Air 2, iPad mini, iPad mini 2, iPad mini 3	Made for iPad Air, iPad Air 2, iPad mini, iPad mini 2, iPad mini 3, iPad mini 4
General		
Connection Method	Lightning Certain standard wireless	Lightning USB Type C
Wireless (Frequency 2.4 MHz)	Certain standard wireless MiFi Approved	Certain standard wireless MiFi Approved
Interface	iOS, Wireless iPad must not be in sleep mode.	iOS iPad must not be in sleep mode.
Display	NA	NA
Secure Key Pad	NA	NA
Optional Accessories	NA	iPad Mini model offers optional hand strap
Web services	NA	NA
Electrical		
Charging	USB charging adapter (requires port with 2A @ 5V)	Rechargeable USB 2.0 Type C charging adapter
Battery	No battery	Li-Po 750 mAH
Current and Power	Powered thru iOS device 50 mA max draw 2.85 to 3.47 VDC from device	Powered thru iOS device Power switch. Operation Time 8Hr
Security and Certifications		
Compliance (FCC, CE, UL)	YES	YES
MagneSafe Security Architecture	YES	YES
Tamper	Evident/Resistant	Evident/Resistant
Mechanical		
Dimensions L x W x H or L x W x D	Mini 9.6 x 5.3 x 0.47 in. (285 x 173 x 12 mm) Air 11.2 x 6.8 x 0.47 in. (244 x 139 x 12 mm)	iPad Mini 4: TBD Mini 9.9 x 5.5 x 0.50 in (252 x 140 x 12.5 mm) Air 11.5x 6.8 x 0.5 in (292 x 173 x 12.5 mm)
Weight	Mini 5.0 oz. (141.75 g) Air 7.0 oz. (198.445 g)	w/mini 19.2 oz.
Mount/Stabilizer	VESA Mount = MIS-D, 4-point 4 x 4 in. (100 x 100 mm)	VESA Mount in certain models
Environmental		
Operating temp	32°F to 95°F (0°C to 35°C)	32°F to 95°F (0°C to 35°C)
Operating humidity non-condensing	5% to 90%	5% to 90%
Storage temp	-4°F to 113°F (-20°C to 45°C)	-4°F to 113°F (-20°C to 45°C)
Storage humidity non-condensing	5% to 90%	5% to 90%