

The image shows a close-up of a car wash payment interface. On the left, the MagTek logo is displayed in red and black, with the tagline 'SECURITY FROM THE INSIDE' below it. The main display area features a blue background with white text that reads '10¢ OFF GAS PRICE OF A CAR WASH'. To the right of the display are several white arrow-shaped buttons. Below the display is a 'SECURE CARD READER' with the text 'for your credit protection' underneath it. The entire interface is set against a dark background.

MAGTEK[®]
SECURITY FROM THE INSIDE

Product List

- EMV Insertion Module
 - mDynamo
- MSR & EMV Insertion Readers
 - DynaDip
 - oDynamo
- NFC Modules
 - DynaProx
 - DynaWave

OEM MagneSafe MSR, EMV & NFC EMV Contact and Contactless Modules and Readers

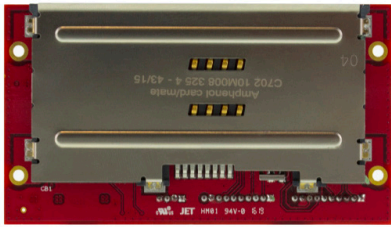
There are more ways to pay and perform digital transactions than ever before. MagTek has the components and peripherals you need for your transaction environment.

MagTek understands that development time is expensive, and that “time to market” is critical. That is why MagTek uses a consultative approach when working with original equipment manufacturer developers and designers. MagTek understands that the products and solutions created are only done through good working relationships coupled with premier hardware, accessible application programming interfaces and software developer kits that make sense. Using a consultative approach, MagTek’s OEM team will work with you to develop a solution that best fits your needs.

Couple our insertion modules or secure card readers with our near-field communications modules to create an advanced payment solution.

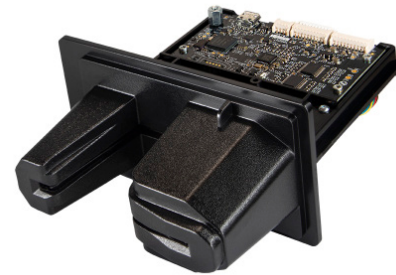
CALL - 562.546.6400 | EMAIL - oem.solutions@magtek.com

Insertion Magnetic Stripe and EMV Readers



mDynamo - EMV Module

mDynamo is an EMV module that connects via USB with two optional auxiliary ports (SPI and UART) giving 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.



DynaDip - MSR & EMV Contact

DynaDip makes upgrading your magstripe reading solution easier. Using the same basic form-factor and bezels as our P-Series secure card reader authenticator (SCRA), we have added contact EMV chip card reading technology without adding to the overall device footprint or changing its mounting points. Now both card reading devices connect to the host as one logical device over USB. If you want to add contactless card reading, DynaWave can also be connected to offer the most advanced payment acceptance technology in a small form-factor.



Ready for
vending,
stand-alone,
and kiosks

oDynamo - MSR & EMV Contact

oDynamo is a secure insertion card reader that is built to be durable and flexible. oDynamo allows for fast, reliable, and secure reading of magnetic stripe and chip card data from cards that meet the ISO 7810, 7811, and 7816 specifications. The slot and chassis are designed so cardholder-facing elements are impervious to liquid and other harsh environmental elements, making it an ideal solution for gas pumps, ATMs, and vending machines. Ultimate system design flexibility makes it ideal for a variety of unattended payment terminals. oDynamo withstands a wide range of operational conditions and supports multiple communication protocols, and offers a USB connection, an Ethernet connection, and a serial connection.

Near-Field Communication - Contactless Modules



DynaProx and DynaProx BCR

DynaProx and DynaProx BCR deliver the next generation in touchless payment acceptance combining the controller and antenna in a small form-factor design. DynaProx readers are best suited for original equipment manufacturers (OEMs), merchants, banks, and other developers looking to build a secure payment, and identification and authentication solution that reads and accepts barcodes, EMV Contactless, and NFC data.

Ideal for kiosks, vending machines, unattended payment terminals, and even countertop deployment with the optional stand, touchless payments and barcode scanning are made fast, reliable, and secure.

DynaWave and DynaWave Slim

There are more ways to pay and perform digital transactions than ever before. MagTek has the components and peripherals you need for your transaction environment. DynaWave and DynaWave slim meet this growing need. Both products deliver the same electronics but housed in different encasements for great integration flexibility. The DynaWave Family, MagTek's NFC modules, allow you to add NFC, near-field communication, contactless transactions to your payment solution. NFC allows for faster payments with a quick tap for transaction processing. Whether you need to accept D-PAS®, PayPass™, payWave®, ExpressPay®, Apple Pay®, Android Pay® or any other bank mobile application that supports contactless, DynaWave is ready. (Requires Magensa Services or existing L3.)



DynaWave

Near Field Communication OEM device with higher profile



DynaWave Slim

Near Field Communication OEM device with lower profile



Payment methods	mDynamo	DynaDip	oDynamo PCI PTS 5.x	DynaProx / DynaProx BCR PCI PTS POI v6.1	DynaWave / DynaWave Slim
Magnetic stripe reader (SCRA) Triple Track (TK1/2/3); Bidirectional read ISO 7810, 7811; AAMVA driver licenses	Optional added module	YES 6 ips to 60 ips	YES 6 ips to 60 ips PCI PTS 5.x Certified Secure Card Reader (SCR) with SRED	NA	NA
EMV chip contact EMVCo L1 and L2 ISO/IEC 7816	YES	YES	YES	NA	NA
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)	Optional added module	Optional added module	NA	Yes EMV Contactless Offline Data Authentication Support (ODA)	Yes EMV Contactless Offline Data Authentication Support (ODA)
NFC contactless / mobile wallets ISO/IEC 18092, ISO/IEC 14443 (Type A, Type B) C-1/ C-6/C-7; D-PAS®, PayPass™, payWave®, ExpressPay®, Apple Pay®	Optional added module	Optional added module	NA	Yes and Enhanced L1 Polling Loop	Yes
Barcode Reader	NA	NA	NA	BCR models only	NA
Reliability and Operation					
MSR / SCRA swipes	Optional added module	1 Million	500K	NA	NA
EMV insertions	500K	500K	500K	NA	NA
Tested Compatible OS(s)	USB: Windows 7, Windows 8.1, Windows 10	Windows plug & play Android, Linux, Windows	Windows and Android	Windows and Android iOS thru USB iAP2	Windows 7, Windows 8.1, Windows 10, Android 4.4.2 and above on devices with USB On-The-Go (OTG) support
Status/audio indicators	General Status LED	Status LED	General Status LED (Red/Green/ Amber)	Status LEDs and audio	Four LEDs
General					
Connection Method	USB	USB or UART for DynaWave	USB RS-232 Serial Ethernet. External USB PCI PED connection	USB and RS-232, Single connector	Micro USB-B Micro-USB B, compatible with USB 2.0 and higher; UART
Wireless (Frequency 2.4 MHz)	NA	NA	NA	NA	NA
Interface	USB	USB	USB Ethernet/RS-232: TIA232F serial interface specification	USB / USB iAP2 / RS232	USB / UART
Ports	1 general purpose SPI port (MSR); 1 general purpose UART port (NFC Module); UART and SPI ports pass through to host	NA	NA	NA	NA
Electrical					
Battery	NA	NA	NA	NA	NA
Power Outputs	5 VDC on USB power 400mA @ 5.0V avail. on Auxiliary UART port 100mA @ 3.3V avail. on Auxiliary SPI port	USB powered	9VDC to 24VDC	5V USB Power or Powered separately for RS 232	USB 5 VDC; Idle: 70mA Active: Up to 350mA
Security and Certifications					
Compliance (FCC, CE, UL)	YES & ICC Interfaces: ISO/IEC 7816-1, 2, 3, & 4	FCC, CE, UL	YES & EMV L1 and L2 contact. PCI PTS 5.x POI OEM Secure Card Reader (SCR). Supports PCI SRED and P2PE. FCC Title 47 Part 15 Class B.	FCC, CE, UL, ROHS32-REACH, MC TQM	YES
Data protection 3DES encryption; DUKPT key management; MagneSafe Security Architecture; Unique, non-changeable device serial number	YES	YES	YES	YES	YES
Mechanical					
Dimensions	Length: 2.60 in.(66mm) Width: 1.47 in. (37.3mm) Thickness: 0.30 in. (7.7mm)	Flat bezel: Length: 3.98 in. (101.1mm) Width: 2.70 in. (68.5mm) Thickness: 0.31 in. (7.9 mm) Extended bezel: Length: 3.10 in. (78.7 mm) Width: 1.65 in. (41.9mm) Thickness: 1.69 in. (42.8 mm)	Length: 5.52 in. (140.2mm) Width: 3.94 in. (100.1 mm) Height: 2.80 in. (71.1mm)	2.09 in. x 2.52 in. x .72 in. (53mm x 64mm x18.5mm)	DynaWave: Length: 2.95 in (74.9mm) Width: 3.6in. (91.3mm) Height: 1.2in. (30.6mm) DynaWave Slim: Length: 2.95 in (74.9mm) Width: 3.6in. (91.3mm) Height: 0.70in. (17.9mm)
Weight	0.5 oz. (14g)	Flat bezel: 4.4 oz. (124g) Extended bezel: 3.6 oz. (102g)	1.8 lbs (800g)	DynaProx = 2.0 oz. (56g) DynaProx BCR = 2.0 oz. (58g)	DynaWave: 2.30 oz (64.0 g) DyanWave Slim: 2.05 oz (58.0 g)
Mount/Stabilizer	Solution-specific enclosure with card slot, screws, and inserts	4 screws and washers with mounting bezel, apply 5.0 +/- 0.5 inch lbs of torque when installing the screws	Solution-specific enclosure using nuts on threaded studs/ screws. Horizontal or vertical card insertion slot orientation. Compatible with EVA EPS 1.1 for UPOS hole patterns.	Hard mounting point to match common ATM Bezel mounts Optional Countertop Stand Available	Solution-specific enclosure using nuts on threaded studs/screws
Environmental					
Operating temp	-4°F to 149°F (-20°C to 65°C)	-4°F to 149°F (-20°C to 65°C)	-22°F to 158°F (-30°C to 70°C)	DynaProx -30°C to 85°C (-22°F to 185°F) DynaProx BCR -20°C to +55°C (-4°F to 131°F)	-22°F to 158°F (-30°C to 70°C)
Operating and storage humidity non-condensing	5% to 90%	5% to 90%	10% to 90%	DynaProx: 90% RH DynaProx BCR: 5-95%	10% to 90%
Storage temp	-4°F to 149°F (-20°C to 65°C)	-4°F to 149°F (-20°C to 65°C)	-40°F to 158°F (-40°C to 70°C)	DynaProx -30°C to 85°C (-22°F to 185°F) DynaProx BCR -40°C to 70°C (-40°F to 158°F)	-22°F to 158°F (-30°C to 70°C)



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. Our hardware products include secure card reader/authenticators, Quantum secure cards, token generators; EMV Contact Chip, EMV Contactless, barcode and NFC reading devices; encrypting check scanners, PIN pads, and credential personalization systems. These products all connect to Magensa, a MagTek owned gateway that offers businesses the ability to securely process transactions using authentication, encryption, tokenization, and non-static data. MagTek is headquartered in Seal Beach, CA, please visit www.magtek.com to learn more.