DynaProx
for Contactless Transactions

Engineered Security

DynaProx and DynaProx BCR deliver the next generation in contactless payment acceptance, access control, authentication, and loyalty by combining the controller and Near Field Communication (NFC) antenna in a small form-factor. DynaProx devices are ready to accept barcodes (BCR devices) only, EMV Contactless, NFC Contactless, MIFARE, MIFARE DESFIRE, and NTAG transactions.

OPERATING SYSTEMS
- **Android**
- **Windows**
- **iOS (using USB iAP2 ONLY)**

ACCEPTED TRANSACTIONS
- **EMV Contactless**
- **NFC Contactless**
- **PayPal®, Venmo®**
- **Apple VAS®**
- **Apple Pay®, Google Pay™, Samsung Pay℠**
- **MIFARE®, MIFARE® DESFire®, NTAG®**

DynaProx readers are the perfect solution for independent software vendors (ISV), original equipment manufacturers (OEMs), merchants, banks, and other developers looking to build a secure payment, identification, and authentication solutions. Ideal for kiosks, vending machines, unattended payment terminals, and countertop deployment with the optional stand, contactless payments, barcode scanning, and access control are made fast, reliable, and secure.

Compliance and More

DynaProx and DynaProx BCR are equipped with the next generation of security with Qwantum Intelligence™. The design and architecture meet the requirements for contactless EMV 3.0, PCI PTS POI v6.x and support triple DEA encryption with DUKPT Key Management and AES encryption with CMAC authentication.

Built for New Markets

Contactless payments are fast, convenient, and meet the needs of new growing markets. Major banks and card issuers are investing heavily in contactless EMV Contactless Cards and alternative payment solutions. Combined with the rise of mobile wallets like Apple Pay, Samsung Pay, Google Pay, and others, there are major opportunities to deliver a reliable and affordable contactless EMV, NFC, and barcode reading device that is used in a variety of deployment scenarios.

DynaProx
Near field communication module

DynaProx BCR
Near field communication module with barcode reader

Easier Integration

Designed to simplify development efforts, DynaProx and DynaProx BCR are available with either a USB, USB iAP2, or RS-232 interface (with power provided over USB or separately powered for RS-232) and are compatible with Windows, Android, and iOS applications. The beeper provides auditory feedback to cardholders and operators delivering a more universal appeal. And the ability to accept payment and non-payment data broadens its capability.

Key Features

DynaProx is easy to install and configure, with key features that include:

- Contactless EMV 3.0 approved
- Contactless NFC MIFARE Classic, MIFARE DESFire, NTAG
- PCI PTS POI v6.x approved
- BCR devices: optical reading for many 2D and 1D barcodes including PayPal and Venmo
- Transducer for audio cues
- USB, USB iAP2, RS-232 interface
- Hard ATM and common kiosk matching mounting points
- Optional countertop stand
- Flexible cable management
- Triple DEA encryption/DUKPT key management
- AES-256 encryption with CMAC authentication
- Impact protection - IK08
- Ingress protection - IP66
- UV resistant plastic

DynaProx Stand
Optional stand for both models, standard model shown here.

Specifications

Transaction Acceptance	
Magnetic Card Swipe Reader	NA
EMV Contact Chip	NA
EMV Contactless	EMVCo L1 and L2 Contactless Reader EMV Contactless Level 1 Version 3.0 D-PAS, PayPass/MCL, payWave, Expresspay
NFC Contactless / Mobile Wallets	Mobile wallets including but not limited to Google Play, Samsung Pay, Apple Pay; Wallet protocols: Apple Vas and Google SmartTap
NFC Contactless	MIFARE, MIFARE DESFire, NTAG
Barcode Reader (BCR) BCR devices only	Barcode Media: Labels, paper, smartphone / computer displays; Barcode Types: QR Codes, Linear Barcodes, UPC-A, UPC-E, Code 128, PDF417 / Data Matrix, etc.; Field Of View 31.5° total vertical sweep, 42° total horizontal sweep, perpendicular to device face; Aztec; Depth Of Field 1.2 in. (30mm) to 13.8 in. (350mm); PayPal and Venmo
Reliability and Operation	
Operating System Compatibility	Windows 10, Android 4.4.2+, iOS with USB iAP2
CPU and memory	Non-volatile
Status and audio indicators	4 Monochrome Green LEDs and Audio, audio
General	
Connection and Interface	USB / RS-232 / USB iAP2
Optional Accessories	Countertop stand
Magensa Services	L3 Certified Gateway, Remote Services, Tokenization, Encryption, Authentication
Electrical	
Battery	RTC (real time clock - battery)
Current and Power	See installation guide PN D998200490 for details
Security and Certifications	
Compliance	FCC, CE, UL, UKCA, ROHS32-REACH, MC TQM, EMV 3.0, see installation and operation manual for complete list
PCI, SRED	PCI PTS POI v6.x
Security Architecture	Encryption, Tokenization, Authentication, Dynamic Data
Encryption	TDEA/DUKPT
Tamper	Evident/Resistant/Responsive
Mechanical	
Dimensions L x W x H	2.09 in. x 2.52 in. x .72 in. (53mm x 64mm x18.5mm)
Weight	DynaProx = 2.0 oz. (56g); DynaProx BCR = 2.0 oz. (58g)
Mount/Stabilizer	Hard mounting point to match common ATM Bezel mounts. Optional countertop stand.

Environmental	DynaProx	DynaProx BCR
Temp - Operating	-30°C to +85°C (-22°F to 185°F)	-20°C to +55°C (-4°F to 131°F)
Temp - Storage	-30°C to +85°C (-22°F to 185°F)	-30°C to +70°C (-22°F to 158°F)
Humidity - Operating and Storage	5 - 90% RH non-condensing	5 - 90% RH non-condensing
Shock Resistance	IK08	IK08
Ingress Protection	IP66	IP66
RF Exposure	Exempt from SAR requirements due to radiated power substantially below regulatory thresholds	

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