

# RFID Solutions

for Positive Patient Identification

With more than 50 years of experience, Precision Dynamics Corporation (PDC) is the global leader of patient identification solutions. Our patented Smart Band® RFID Wristband System helps prevent medical errors, which can help save lives and valuable hospital resources.

PDC products are used in all of the top 100 hospitals nationwide and comprise a comprehensive range of wristband and label systems that reach every touchpoint in the delivery of care – from admissions to discharge, from medication administration to surgical procedures, from specimen collection to IT and diagnostics.

Facilitating flawless delivery of care, PDC solutions are designed with nurses, physicians, and staff in mind. We know that anything less than 100% accuracy, reliability, and convenience simply isn't an option.



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## Precision Dynamics RFID Solutions Positive ID. Positive Outcomes.

To meet your hospital's patient safety and quality care needs, PDC RFID Solutions provide the most powerful and accurate technology available to help ensure positive outcomes. Consider the key features and benefits that distinguish PDC RFID Solutions:

### RFID Advantages Over Bar Code

- RFID yields larger memory capacities, longer read distances, and faster processing times.
- RFID does not require line-of-site data transmission so tags can be read through and around the human body, clothing, bed coverings, and non-metallic materials. This enables a caregiver to scan a wristband without disturbing the patient.
- RFID tags are dynamic data carriers, enabling updates to the encoded data at any time. With bar codes, any changes to the data require printing a new bar code.
- RFID provides increased security over bar codes, which are easy to copy and duplicate.
- First time read-rate of a RFID tag is higher than a bar code, which improves system efficiency. Also, wristband curvature has minimal impact on the read rate for a RFID tag, whereas it can greatly impact bar code read rates, depending on symbology or orientation.

### Industry Standards

PDC RFID Solutions meet the standards and goals of HIPAA, AHA, and The Joint Commission to improve the accuracy of patient identification; accurately reconcile medications across the continuum of care; provide patient protection and confidentiality; and ensure uniform standards of data exchange.

### Quality

PDC's commitment to quality includes extensive laboratory testing and Six Sigma processes. We're also the only wristband identification-focused company to earn ISO certification, reflecting 100% quality in design and manufacturing.

### 5 Rights Of Medication Safety

To ensure medication safety, PDC RFID Solutions facilitate Right Patient, Right Drug, Right Dose, Right Route, and Right Time.

# RFID Wristbands and Cards

Choose from several PDC Smart Band® wristbands, each with an integrated RFID transponder and direct thermal print surface for on-demand printing and encoding. Offered with a variety of closure types: adhesive closure, single-post snaps, or double-post snaps. All closures are secure, non-transferable and one-time-use.

## PDC Smart Band® Wristbands

|                    | Part Number | Quantity    | Width  | Information Area   | Closure Type     |
|--------------------|-------------|-------------|--------|--------------------|------------------|
| Smart ScanBand®    | 7070        | 500 per box | 1.188" | 3.33" L x 1.125" H | Adhesive         |
| Smart CompuBand®   | 7060        | 400 per box | 1.188" | 3.33" L x 1.125" H | Single-Post Snap |
| Smart CompuBand®-S | 7067        | 400 per box | 1.188" | 3.5" L x 1.125" H  | Double-Post Snap |



### Smart ScanBand® 7070

Featuring a secure and tamper-evident adhesive closure.



### Smart CompuBand® 7060

Provided with tamperproof and secure, single-post snap fasteners for maximum security.



### Smart CompuBand®-S 7067

Features a rounded shape and soft materials for maximum comfort. Secured with a double-post snap closure.

## PDC Smart® Cards

Embedded with the same RFID technology as PDC Smart Band® wristbands, PDC also provides a full line of RFID cards for use as staff ID badges, visitor badges, and more. Each card can be printed and programmed using a dye-sublimation card printer and programmer. Custom four-color printing is also available.



| Part Number | RFID Inlay  |           |           | Magnetic Stripe Coercivity |      | Punchable?<br>Yes | Qty. |
|-------------|-------------|-----------|-----------|----------------------------|------|-------------------|------|
|             | Tag-it HF-I | Mifare 1K | Mifare 4K | Low                        | High |                   |      |
| C100-00-PDJ | X           |           |           |                            |      | X                 | 250  |
| C101-00-PDJ | X           |           |           |                            | X    | X                 |      |
| C103-00-PDJ | X           |           |           | X                          |      | X                 |      |
| C105-00-PDH | X           |           |           | X                          |      |                   | 200  |
| C106-00-PDH | X           |           |           |                            | X    |                   |      |
| C108-00-PDH |             | X         |           |                            |      | X                 |      |
| C109-00-PDH |             | X         |           | X                          |      |                   |      |
| C110-00-PDH |             | X         |           |                            | X    |                   |      |
| C111-00-PDH |             |           | X         |                            |      | X                 |      |
| C113-00-PDH | X           |           |           |                            |      | X                 |      |

Products continued on next page.

# RFID Hardware

PDC offers RFID hardware options from industry-leading suppliers to enable a variety of applications. Choose from an assortment of handheld and stationary RFID readers best suited for the given application or workflow.

## SDiD™ Card RFID Reader by Wireless Dynamics, Inc. RI24-00-PDA (SDiD 1020)

Designed to plug into the Secure Digital (SD) slot of any Personal Digital Assistant (PDA), Smartphone or other handheld device, the SDiD™ Card can enable many RFID data transfer applications for patient care or pharmacy.

Frequency: 13.56MHz  
 Read/Write Range: 1 to 2 in (3 to 5 cm)  
 ISO 15693 and ISO 14443A/B compliant



## FEIG Pad Reader

The FEIG Pad Reader is a stationary table-top reader/writer for 13.56 MHz RFID transponders. It is compatible with ISO 15693 tag types. Available in either RS-232 or USB interfaces.



## FEIG Handheld Reader

The FEIG Handheld Reader reads ISO 15693 transponders, and includes a push-button trigger for applications that require increased control. Available in RS-232, USB and Bluetooth interfaces.



## RFID Inlay Specifications

|                          | Texas Instruments Tag-it HF-I | NXP I-CODE SLI-L            | Mifare® Standard 1K              |
|--------------------------|-------------------------------|-----------------------------|----------------------------------|
| Operating Frequency      | 13.56 MHz                     | 13.56 MHz                   | 13.56 MHz                        |
| EEPROM Size              | 256 bytes [2048 bit]          | 32 bytes [256 bit]          | 1024 bytes [8192 bit]            |
| Organization             | 64 blocks, 4 bytes per block  | 8 blocks, 4 bytes per block | 16 sectors, 4 blocks of 16 bytes |
| Unique Serial Number     | 8 byte [64 bit]               | 8 byte [64 bit]             | 4 byte [32 bit]                  |
| RF Interface             | ISO 15693-2,-3                | ISO 15693-2,-3              | ISO 14443A                       |
| Data Retention [years]   | 10                            | 10                          | 10                               |
| Write Endurance [cycles] | 100,000                       | 100,000                     | 100,000                          |

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