### Our RFID Solutions

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**rfLiMS [RFID Library Management & Security System]**

*Daphne Systems*  
...delivering value with RFID since 2005
Daphne Systems Private Limited is an RFID System Integrator, providing application research based turnkey solutions that empower organizations to achieve competitive advantage from radio-frequency identification (RFID) and enhance their business performance. We envision creating and extending knowledge in RFID utilization and its impacts on business processes. We maintain international standards of excellence and implement comprehensive, industry-tested turnkey solutions that will provide value, scalability, and return on investment across an organization.

rfLiMS (RFID Library Management & Security System) provides identification, tracking, security and automated handling to library items. The system enables accurate and fast multi item check-in and check-out, rapid shelf inventory and fast user friendly book return process. Advantages over using barcodes on library material, our rfLiMS radically redesigns, how library materialare handled and processed.

rfLiMS is designed to be modular and different modules can be used to build a system to meet your requirements; may it be security, automated handling, inventory management or complete RFID automation of the library Processes.

**Benefits for Library Staff:**

- Reduced time and labor associated with checking-in, checking-out, sorting and Shelving materials.
- Reduction in time spent doing inventory shelf reading and maintenance.
- Less maintenance cost due to lifetime guarantee of RFID tags.
- Provides security to valuable library items.
- Ease of locating specified or misplaced library items.

*About the Company:*

(An ISO 9001:2015 Certified Company)

Experienced Team | More than 12 Years of Experience in RFID Domain
Innovative and Advance Technology | Long Clientele List
Leader in RFID | Quality Product
At the heart of the Daphne's rfLiMS is the RFID Book Label. Capable of storing and rewriting the items related information, RFID label streamlines circulation and collection management processes.

For Library Users:
- Faster, Easier and convenient to use.
- Shorter waiting time at circulation desk
- Higher availability of library items due to faster book turnover.
- 24-hour return facility of library items
- Faster and accurate re-shelving, patrons can find items where they should be, hence quicker and more satisfying patron service

STANDARDS / PROTOCOLS

The main standard pertaining to RFID library are SIP2/NCIP, ISO 15693, ISO 14443 (A/B) and 18000-3. SIP2/NCIP manages the communication between the RFID System and Automated Library Management System.

The ISO standards are used for communication between Tags and RFID Readers. ISO 15693 & ISO 14443 (A/B) defines the physical characteristics, air interface and communication protocol. The ISO 18000 series of standards establishes RFID-specific communication protocols.

Our rfLiMS is a non-proprietary solution based on SIP2/NCIP, ISO 15693, ISO 14443 (A/B) and 18000-3 standards. By adhering to RFID library standards, rfLiMS achieves interoperability with RFID products from different manufactures and solution providers, thus providing flexibility and scalability to the solution. Besides, the ISO compatible hardware (non-proprietary solution) assures availability and low cost.

System Components

RFID Book Labels (Tags):

At the heart of the Daphne's rfLiMS is the RFID Book Label. Capable of storing and rewriting the items related information, RFID label streamlines circulation and collection management processes.

- Lifetime performance guarantee.
- EAS anti-theft feature.
- Security and identification in a single label.
- No line of sight needed.
- Maintain free-study in harsh environments.
- Different shaped and sizes available for different materials.
- Accelerates inventory, circulation and item tracking.

Anti-theft sticker:

It is used for protection of Rfid Book Label. It has pre-printed institute logo and information. It is available in different sizes.

- Adhesive Paper Sticker
- Pre Printed Institute Logo
- Vinyl Printing
- Dust & Water proof.

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RFID Smart Card:

The RFID Smart Card raise patron identification to new levels of convenience by allowing patron to identify themselves without the need to swipe a magnetic stripe or scan a barcode.

- Non-contact patron identification.
- Coloured print personalization.
- Unique ID eliminates risk of duplicate cards.
- Compatible with other auto-id systems-access control, ePayment, eAttendance etc.

Multipurpose Staff Station:

The rflLiMS Multipurpose Staff Station is an elegant desktop station that enables librarians to quickly and efficiently process the circulation of library items. When a stack of tagged items are placed over a station, they are immediately identified, processed by the LMS (Library Management System), and EAS bit (Security bit) of book label is quickly reset in a single operation.

- Multiple simultaneous check-outs and check-ins.
- Renewal of library items.
- Identify the borrower using RFID Smart Cards.
- Tagging of new library items.
- Activation of RFID Smart Cards.

Tagging Station:

The agging Station simplifies the move to Daphne rflLiMS with options to lease or buy, to use in the stacks or in the back office, the tagging station is a perfect tool.

- Convert existing materials to RFID quickly and easily; more than 3 items per minute.
- Program RFID Patron Cards and update the information in the ILS System Database.
- Processes barcode and RFID Tags.

SelfCheck Station:

The SelfCheck provides a powerful, flexible package that enables library patrons to manage their own transactions easily and efficiently. It simplifies the check-out, check-in and renewal process, helps eliminate waiting lines, ensures patron privacy and increases patron satisfaction.

- Multiple simultaneous check-outs and check-ins.
- Renewal of multiple items at a time.
- Patron Account Details.
- Integrated thermal receipt printer.
- Available in a number of ergonomic designs.
- Integrated RFID reader.

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RFID Security Gate (Single Lane / Dual Lane):

The Security Gate feature the most modern detection algorithm that constantly detects any unauthorized items removal from the library. A Single Lane Gate antenna range covers approximately 1 meter wide pathway and its anti-collision feature allows it to read up to 50 items simultaneously.

- Visual and audible alarms at unauthorized item being taken out.
- Innovative security system ensures a high-level of protection.
- Works even if the ILS is offline.
- Industry leading read range.
- Available in single lane and multiple lane options.

Wireless Stock Management System (Handheld Device):

The Wireless Shelf Management System streamlines inventory processes and makes locating and ordering items on the shelves an easy and fast task for librarians. Representing the leading edge in wireless RFID readers technology, this lightweight, handheld sensing unit combines convenience with versatility and provides advanced capabilities for:

- Fast, efficient inventory
- Locating Mis-shelved Volumes
- Onscreen Display of Mis-ordered item in a shelf
- Individual items search
- Missing Item Search

Book Drop Station:

The Book Drop Station Can be placed at any convenient location to enable patrons to return their items any time, even after the library is closed.

- Fast and convenient 24x7 returns.
- Touch screen based user interface.
- Loans instantaneously cancelled, users may immediately borrow again.
- Reactivates the anti-theft bit on the tag.
- Provides return receipts.
- Depressible receiving cart.
- Integral with book auto-sorting system.

Auto Sorting Station:

When Combined with Book Return Station, sorting units provides an effective way to re-shelve items that have been returned to the library. The Automated Sorting Unit is a fully integrated conveyor system which sorts returned RFID-enabled items into any number of designed return bins at a high speed.

- Modular in design to accommodate future expansion.
- Communication with ILS using SIP2 protocol.
- Exceptional handling for items not tagged, tag reading problem etc.
OPAC KIOSK:
This is the OPEN PUBLIC ACCESS CATALOGUE. This helps the Visitors need to who perform quick access to entire library catalogue.

- In this Software complete privacy is ensured as browser history and user date are erased automatically at the end of each session.
- The Library’s Catalogue of book and other reading material can be accessed through OPAC Kiosk.
- The Library Catalogue is searched by Author, Title, Publisher, Keyword and Year of Publication.

SecuriTrack Station:
Daphne’s unique proposition, the rflIMS Securi Track Station provides 100% security of library items even in the case of tag removal or damage. The Securi Track Station is easy to operate and simply requires placing the items being taken out on the pad surface. The screen displays the message if the items are allowed to be taken out or denied in case of some tampering with the label.

- Quick and easy detection of item circulation status.
- Identifies Label Tampering Event
- Provider Tool-Proof Security to Library Items.

Book Drop Carts:
An important accessory for Self Check Station and Book Drop Station. This Book drop carts provide a way to safely collect and store books. Available in different sizes, these carts are equipped with depressible platforms or soft drop cushion for safe handling of books. These carts are equipped with swivel wheel casters to be easily pulled out and moved to any location in the library.

AUTOMATIC SLIDING DOORS:
The automated sliding door are used in combination with the sensor gates. When an unauthorized items removal is detected at the sensor gates, the sliding door close automatically to stop the person from moving out with the books.

- Micro processor based intelligent control panel with time memorization.
- Adjustable holding time, opening time and closing time.
**RFID Smart Card Printer:**

The Smart Card Printer package is ideal for personalization and printing of RFID Cards. The package is provided with designer software for designing and editing print layouts.

This package helps improve the tagging process by allowing libraries to print variable in formation onto the cards such as barcodes, library logos, branch code images etc. the package comes with au user friendly and intuitive software to make the complete process fast and easy.

**Flap Barrier:**

rfLiMS Flap Barrier is normally used for Access Control & Attendance Management in the Library. An identification terminal such as RFID Reader, fingerprint devices or face recognition devices is need to be link with flap barrier. Once the identification is valid, the flap barrier will be triggered and open. Flap Barrier is an innovative pedestrian control technology that designed to achieve best balance of quality, performance and afford ability. Flap Barrier provide a combination of reliable mechanical as well electronic restriction for unauthorized visitor while still maintain a welcoming atmosphere. Access control and time attendance reader can be integrated in to this flap barrier. In case of emergency, the gate will open automatically to allow free passage ensuring fire Safety norms.

- Double anti-clipping function (photocell anti-clipping and mechanical anti-clipping).
- The barrier can be set to delay closing in 1-60 sec after a valid card reading.
- Use RFID Cards, ID cards, Bar code or magnetic cards as automatic identification.
- A direction indicator, showed that pedestrians access to the current status of guide pedestrians correct & smooth passage.
- Barrier Swings-Plastic Plate, Toughened Glass, Stainless Steel Frame.
- Wider Opening.
- Anti Tailgating Feature.
- Auto Close Timer.
- Alarm Detection

**PatronCheck Station:**

The Patron Check Station provides the facility of patron account statement. This statement displays the complete list of checkout items of Library Member with Accession No., Title & Due Date.

**rfLiMS SERVER (Web-based Software):**

The rfLiMS server is the central control unit for all the RFID station in the local network.

- Primary RFID database server.
- Acts as a backup server in case of ILS connection failure.
- Provides web based admin console.
- Monitor and configure RFID workstations.
Our Esteemed Clients

MORIGAON COLLEGE

SPECIAL PROTECTION GROUP

Delhi NCR Campus, Ghaziabad, (U.P.)

Translational Health Science and Technology Institute

NTPC Rihand

A Maharashtra Company

HCL

National Centre for Cell Science

PIMPRI CHINCHWAD MUNICIPAL CORPORATION

NTPC Vindhyanagar

...and many more

DAPHNE SYSTEMS™
End to End RFID Solutions
An ISO 9001 : 2015 Company

Head Office
Daphne Systems Private Limited
114, First Floor, Alaknanda Commercial Complex, Plot No. 3, L.S.C. Vikas Kendra, E-Block, Vikaspuri, New Delhi-110018 Tel. :+91-11-43021682

Email: info@daphnesystems.com | www.daphnesystems.com | Skype: daphnesystemsrfid | +91-7777005050