LIBRA Micro Library Solution

PainPoint of micro libraries

The lack of an RFID-based check-in/out system creates significant pain points for micro libraries. The manual barcode scanning process is time-consuming, inventory tracking is difficult, usage data is limited, and collections face security risks - all of which hinder the patron experience and the libraries' ability to efficiently manage and grow their operations.

Upgrade to RFID Technology

Incorporating RFID technology could improve the efficiency of micro libraries as they continue expanding. RFID-based check-in and check-out would streamline the process for patrons while giving micro libraries better inventory tracking and usage data.

Features :

- Faster, More Convenient Check-in/Out Process
- RFID allows books to be scanned with a simple tap or wave, rather than individually scanning barcodes
- Streamlines the borrowing experience for patrons
- Improved Inventory Management and Tracking
- RFID tags enable libraries to easily monitor their full book collections
- Quickly identify missing or misplaced items
- Access to Valuable Usage Data and Analytics
- RFID provides granular insights on borrowing trends and patterns
- Transitioning to RFID positions micro libraries to leverage additional smart features and functionalities down the line
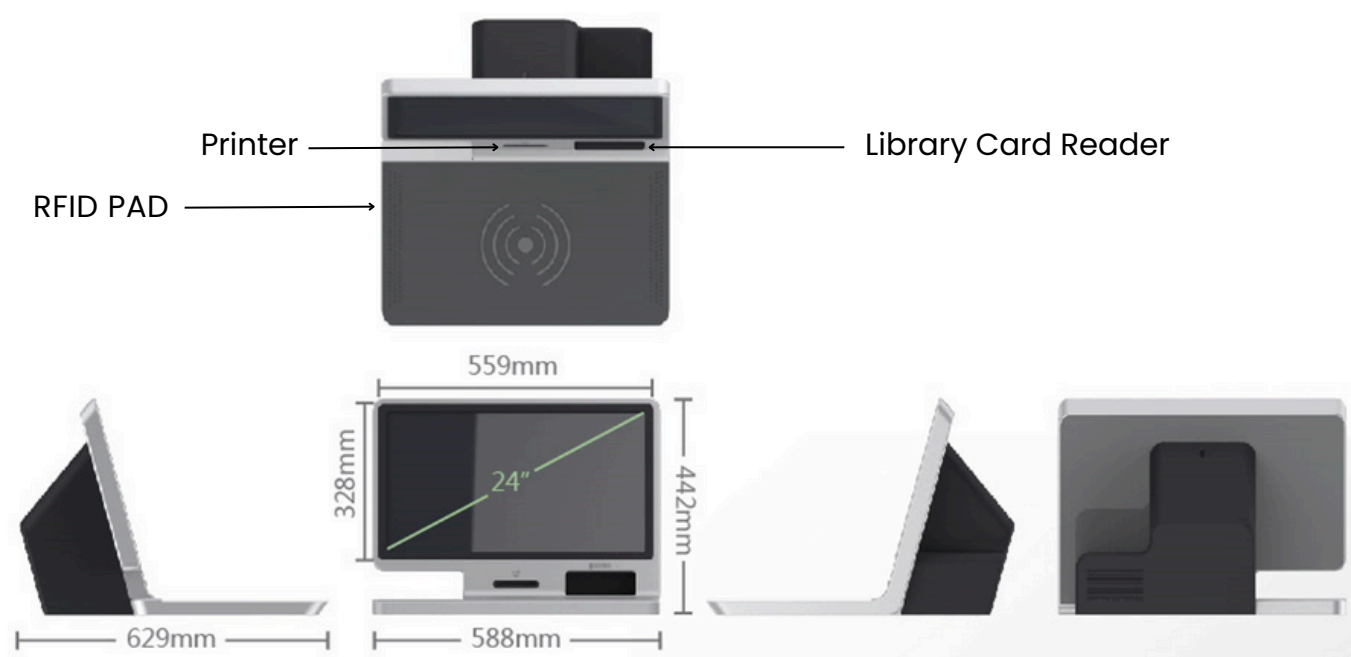
Mobile Self Borrow and Return Station

A mobile, self-serve borrowing and return station equipped with RFID technology offers micro library patrons a convenient, efficient way to independently check out and return books. These compact, portable stations allow users to simply put RFID-tagged books on the reader to register checkouts and returns, eliminating the need for manual barcode scanning. This self-service model streamlines the library experience, reduces wait times, and enables staff to focus on other priorities.

Optional: RFID Handheld Device

Specification

Printer — Library Card Reader

RFID PAD

559mm

328mm 24" 442mm

629mm 588mm

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Stock Take Robot

Our RFID library stock take robot revolutionizes library inventory management with its exceptional efficiency and precision. By utilizing RFID technology, the robot can swiftly scan and track numerous books and other library materials, eliminating the need for time-consuming manual inventory checks. It ensures accurate and real-time data on item availability, location, and movement, enabling librarians to streamline operations, improve the patron experience, and optimize resource allocation. The robot empowers libraries with a cutting-edge solution for efficient and effective inventory management.

Enhanced Efficiency

Automates the inventory management process, reducing manual effort and time required

Improved Accuracy

Minimizes human error by precisely identifying and locating items using RFID tags

Real-Time Insights

Provides up-to-date information on item availability, location, and circulation, enabling data-driven decision-making for optimized operations

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Mobile Tagging Work Station

A mobile RFID tagging workstation allows micro libraries to efficiently convert their barcode-based collections to RFID-enabled items. The compact, portable design enables library staff to tag books quickly and seamlessly, without disrupting regular operations.

RFID UHF Passive Tags for books

- Anti-collision, prevent the information stored in it from being illegally read or written
- Non-rewritable unique serial number (UID) for identification and encryption
- The label comes with double-sided viscosity, it is not easy to tear off after pasting
- Optimized for data structure storage and access management
- Class leading read and write performance
- Important role in books identification, information collection, and books tracking
- Provide accurate books positioning and improve librarian work efficiency

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RFID Reader (For security purpose)

An RFID security reader can discreetly replace traditional security gates, automatically detecting items not properly checked out and triggering alerts, enhancing collection protection without disrupting the patron experience.

24/7 Self Service Library Station

A 24/7 self-service library station with RFID allows users to independently check out and return items, extending access and convenience even when the physical library is closed, while streamlining operations and freeing up staff.

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Simulation Diagram

Mobile Self Borrow and Return Stations

RFID Reader

Greeting and Stock Take Robot

User Experience:

- Students pick up and check out at self check out station (up to 5 books at a time)
- Voice promp if there's non borrowed books are detected at front door by rfid reader installed at the ceiling
- Stock Take robot can perform routine daily stock check and greeting purpose
- If patrons need to borrow books outside of regular library hours, the 24/7 self-service library station can accommodate this need by enabling them to independently check out items around the clock.

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HongKong

Hong Kong Communications Co., Ltd.
Address: 14/F., Block B, Vita Tower, 29 Wong Chuk Hang Road, Hong Kong
Tel: +852 2527 8822 Fax: +852 2865 6016
Email: contact_hkcgroup@hkc.net
Website: http://www.hkc.com.hk

HKC Technology Limited
Address: 14/F., Block B, Vita Tower, 29 Wong Chuk Hang Road, Hong Kong
Tel: +852 2255 9488 Fax: +852 2255 9490
Website: http://www.hkc.com.hk

Singapore

Singapore Communications Co Pte. Ltd.
Address: 8 Jalan Kilang Timor #03-09 Kewalram House Singapore 159305
Tel: +65 6880 0800(General), +65 6880 0811(Customer Service)
Fax: +65 6880 0899
Email: sales@singcomm.com.sg
Website :http://www.singcomm.com.sg