Get the Bibliotenna™ Advantage

Implementing a Library Management System?

from university libraries to industrial libraries - innovative technology for every application

RFID in Library

Libraries all over the world are moving away from the traditional model of using barcodes to scan and check out books. While this method has been around since the advent of barcodes almost 40 years ago, rapidly evolving technology has meant that more efficient, streamlined library management solutions have been developed. The most recent technology, one that many of the largest libraries in the world have already switched over to, is Radio Frequency Identification Device (RFID).   .

This involves affixing a tiny RFID tag onto each book, which allows it to be read by readers stationed across the library. The advantage of this technology over barcodes is that RFID technology does not require a direct line of sight. Thus, multiple books can be detected and checked out simultaneously, instead of having to scan every individual book. In addition, patrons can check their books out themselves, instead of relying on a librarian. This gives the librarian more time to help out other library members, and it lets patrons check their books out faster.

RFID also acts as a security guard on the premises, alerting the guards if a book leaves the library without being checked out. Thus, one single technology, RFID, can replace the existing bar code technology for checkout, as well as the EM technology for theft detection.   .

RFID also helps in re-shelving, since wrongly shelved books can be instantly identified without needing a line of sight read. Patrons searching for books can also find books much faster using a handheld RFID scanner, instead of having to manually look through the shelves.   .

Finally, RFID also lets patrons return a book anytime they want. This is because the RFID chip in the book can be identified by the reader in the book drop box, and the returned book can be recorded. A librarian does not need to be physically present to collect the returned book, and so the library effectively stays open 24/7.

Given the many advantages that RFID has over traditional technology that is used in libraries today, many large libraries all over the world such as the Seattle Public Library in America and the Shenzen Library in China have already switched over to RFID.

Essen's Bibliotenna™ is a one stop shop for all your library management needs.

Essen RFID and Xtenna™ – integrates, extends, improves, simplifies,fully scalable, saves cost, maximizes value; helps your business take the next step forward.

What makes Essen's Bibliotenna™ solution different?

The Bibliotenna™ is a self-service kiosk which allows students to browse, search and return books, without a librarian having to spend time assisting the student in these routine activities. The Bibliotenna™ allows for greater efficiency, convenience and an enhanced customer experience.

Bibliotenna™

Multipurpose Library Kiosk with two Integrated RFID Xtenna Readers

Specifications

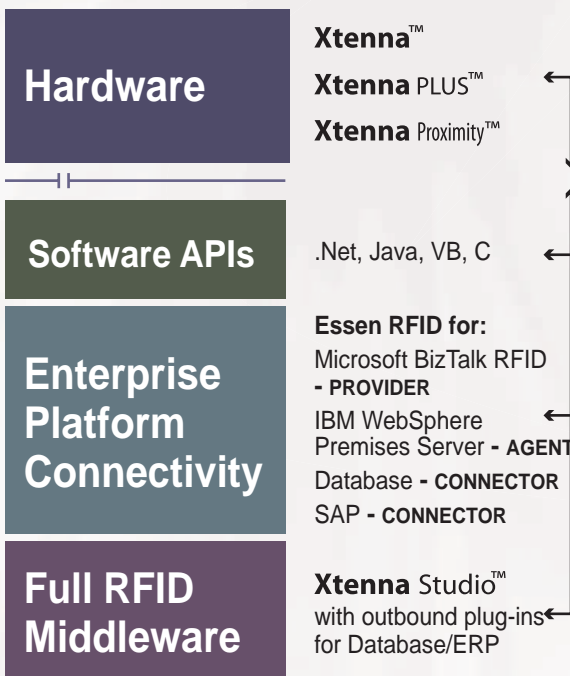Dual TFT touch screens, which allow a range of functions.

Allows patrons to return books 24/7, with RFID verification.

Instant identification of returned books, which is transmitted to a central database and recorded. A printed receipt ensures that the patron has a record of the transaction.

Sends an SMS and Email to the next person on the waiting list for a book as soon as it is returned, giving patrons access to popular books faster.

Equipped with a human engineered, spring loaded cart that allows for easier re-shelving, and involves less manual effort for the librarian.

The ability to perform a local search within the library, and find the exact location of a book, down to the aisle, row, shelf, and even a quadrant within a shelf.

The ability to perform a global search and locate a book anywhere in the world.

Hardware	**Xtenna**™ **Xtenna** PLUS™ **Xtenna** Proximity™
Software APIs	.Net, Java, VB, C
Enterprise Platform Connectivity	**Essen RFID for:** Microsoft BizTalk RFID **- PROVIDER** IBM WebSphere Premises Server **- AGENT** Database **- CONNECTOR** SAP **- CONNECTOR**
Full RFID Middleware	**Xtenna** Studio™ with outbound plug-ins for Database/ERP

Advantages over a Traditional Library System

Automated check out possible.

Checking out multiple books simultaneously is possible.

Ability to find and access popular books without having to search for them manually.

24/7 books drop gives patrons more flexibility and convenience.

RFID technology allows for quicker reshelving and inventory management, as compared to the traditional bar code system

Less effort for the librarian, easier processes for the patrons, and enhanced efficiency.

Essen Energy Conversion Devices Pvt Ltd
24 B, Jolly Maker II, Nariman Point, Bombay 400 021 INDIA
Tel: +91 22 6632 5363 • Fax: +91 22 6632 5366
Email: xtenna@essenrfid.com • Web: www.essenrfid.com

Syscomp	**Mr. James Snyder**
1 Woodgrove Turn, Warren, NJ 07059 USA	2913 SW 22nd Cir #36D, Delray Beach, FL 33445 USA
Tel: 1-732-604-3055	Tel: 1-561-272-6227
Email: harish_purohit@essenrfid.com	Email: james@essenrfid.com

Bibliotenna™