



Syncroft Solutions

Finding Solutions For All

www.syncroft.com

Who We Are?

Syncroft Solutions was established to provide leading edge RFID solutions to businesses and organizations in order to help them overcome problems associated with tracking of equipment, personnel and inventory. The company is focused on providing complete RFID solutions using our own exclusive Syncroft technology.

Our engineering team composed of highly experienced hardware and software engineers from the RFID, Embedded as well as Software industry.

Our management team consists of young and dynamic professionals with high-tech profile in software, hardware, RF technology, corporate development, and marketing. They have vision and dreams to introduce RFID in every business sector making it more versatile and dynamic technology. We believe in developing a team with blend of innovativeness and experience.

Syncroft is an innovation company also specializing in embedded systems technology integration. Our intellectual potential is targeted at electronic devices development, while the technologies used enable us to provide state-of-the-art industrial devices expeditiously.

Syncroft Solutions is aiming itself as a leader in creating a total RFID & Embedded solutions specifically targeted toward our customers' needs. We are sure that you will also join our venture in this exciting and versatile technology.

What Makes Syncroft Unique

- The company has engineered from the ground-up, a complete RFID solution for automatic tracking.
- Our engineering staff has RFID design and system integration experience
- The company has long-term vision and focus to provide the best RFID solutions in the industry

Our Competitive Advantage

- 100% real-time detection of equipment and assets
- Low cost and very reliable RFID active as well as passive tags
- Unique approaches in the tag design with a very long read range
- Low cost RFID reader and system
- Portable database with flexible memory size
- Flexible user-friendly software
- Overall inventory cost reduction for the customer

Our Mission

Our success, in large part, has been based on a business philosophy that values quality products, fiscal independence and long-term customer relationships.

Quality Products

When all is said and done, reliability is the measurement by which any manufacturer should be judged. Syncroft is aiming to earn the reputation of providing high-performing, rock-solid solutions. We credit our reputation to the fact that we control all aspects of the development process including design, in-house manufacturing and testing.

Fiscal Independence

Syncroft believes in financing our growth through our own earnings. Our flat infrastructure, low overhead, and diversity of products give us the ability to weather economic cycles and turn them in our favor.

Long-term Customer Relationships

We know the importance of long-term customer relationships, therefore, we believe in developing and fostering partnerships that are mutually beneficial. Syncroft has always been, and will continue to be, a channel-focused company.

We view our success as dependent on our customers' success, both now and in the future. Our solutions help our customers reduce costs, lower risk and grow revenues. We stand behind our products with unlimited technical support. In short, our goal is to help our customers achieve a competitive advantage by providing solutions that return superior business results.



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Products & Services

RFID Design & Development

RFID/Embedded Hardware & Software Development is our core business expertise. Syncroft's extensive RFID portfolio offers a variety of designs to meet a wide range of global requirements as well as customized requirements. Such high performance design solutions come in small form factor at an affordable cost.

RFID is newly emerging field in Indian industry. Syncroft has decided to focus primarily on this bright technology, which will change the face of industry as well as our day-to-day life.

What is RFID?

Radio frequency identification, or RFID, is a generic term for technologies that use radio waves to automatically identify people or objects. There are several methods of identification, but the most common is to store a serial number that identifies a person or object, and perhaps other information, on a microchip that is attached to an antenna (the chip and the antenna together are called an RFID transponder or an RFID tag). The antenna enables the chip to transmit the identification information to a reader. The reader converts the radio waves reflected back from the RFID tag into digital information that can then be passed on to computers that can make use of it.

RFID System is made up of,

- RFID Readers
- RFID Tags (Active or Passive)
- RFID Middleware software

RFID Readers

The RFID reader is designed for fast and easy system integration without losing performance, functionality or security. The RFID reader consists of a real time processor, operating system, virtual portable memory, and transmitter/receiver unit in one small self-contained module that is easily installed in the ceiling or in any other convenient location.

RFID Tags

RFID Active Tags

Active Tags are radio frequency identification devices, which require batteries for their operation. Active tags have a life of about ten years, due to their batteries. Still, active tags are an interesting option that allows higher data transmission rates and greater distances between tag and reader. They also offer better performance in electro magnetically noisy environments.

RFID Passive Tags

Passive tags are radio frequency identification devices that do not have any internal power source. Their energy source is the power emitted from adjacent antennas.

RFID Middleware:

User Friendly Windows Based RFID Host Software. This host-based software runs on a standard Windows ME Windows 2000 or Windows XP based PC and is tightly integrated with readers.

Some of the applications we offer are:

Inventory Management & Asset Tracking (IMA): IMA is a custom RFID solution for medium and large-scale manufacturing, retail as well as pharmaceutical industry to track and maintain their inventory automatically with very less human intervention.

Hospital Asset Management (HAM): HAM solution is designed for hospital management involving tracking of patients throughout their admission till discharge process, tracking of doctors and nurses, tracking and maintaining hospital inventory like wheel chairs, drugs etc.

Library Tracking System (LTS): LTS is designed to track and maintain records of library books in the library premises. This system will allow library staff to trace exact location of books, shelving as well as check in and check outs of the books.

Parking Access & Control System (PAC): PAC is a complete RFID solution for automated vehicle access and parking maintenance in the company or mall premises.

Office Attendance & Access Control System (OAA): OAA is a customizable RFID solution for tracing employee activities, visitor activities through out the organization. This system also helps security personnel to trace and maintain company as well as personal assets of employees in the company premises. System also incorporates automated access control of doors, automated check in and out for employees.

Assembly Line Tracking System (ATS): ATS is a featured RFID solution to allow manufacturer to trace his product through out its manufacturing cycle to delivery.

Embedded Design & Development

Increasing performance requirements for advanced signal, image and other real-time processing applications demand leading edge technology. Syncroft Solutions designs & delivers the latest embedded solutions involving single as well as multiprocessor solutions for commercial and industrial applications.

"Embedded software" refers to the class of software that runs machines. It usually receives input from and produces control signals in response to its physical environment, and it has time-critical constraints on its operation.

Many projects at Syncroft Solutions are a marriage of well-designed hardware and the electronics and software that make it run; therefore, the production of quality embedded software is our core business technology area. Since embedded software must have robustness beyond the level acceptable for typical desktop applications, we have a carefully controlled engineering process for designing, coding, and testing embedded software. This process, in combination with a seasoned staff, ensures the reliability of the software and the satisfaction of customer specifications. We have experience creating embedded software for commercial as well as industrial applications.

We also provide Distributed software architectures for single and multi-processor systems, Development of fault-tolerant embedded software solutions, Working with diverse hardware platforms including custom hardware devices, industry-standard embedded architectures, development in embedded technologies and tools like Assembly Language, Tasking, Keil Micro vision.

Software Development Services

We offer wide range of custom Software Development using Microsoft .Net, J2EE, VB, C, C++, ASP, PHP and other technologies. Our Business and Technological Expertise, Creativity and Efficiency are combined in our services to provide ecstatic value to the customer.

- Standalone or distributed custom business applications
- Client Server Applications
- Database Applications (Oracle, MS-Access, SQL)
- Software testing, support and documentation

We understand your requirements, design a layout of the system which translates your business logic into the desired application and once we find we have all the required inputs and a layout of the system approved, we work on cost estimates and time schedules. We keep the client involved in the process and one of our team members takes the responsibility for the communication and we try to adjust to your time zone whenever required as per your comfort.

RFID Systems

Retail & Inventory Control



Although many companies are now using sophisticated Warehouse Management Systems integrated with Supply Chain Systems, Enterprise Systems, and Electronic Data Interchange (EDI), the movement and tracking of goods through the manufacturing and supply chain process is still a complex procedure which is difficult to manage. In many instances, the goods being distributed to the retailer must go through one or more third party distribution processes, before they reach their final destination.

Currently, most material tracking systems employ two-dimensional barcodes that must be close to and within the "line of sight" of the barcode reader. This requires manual scanning or a conveyor-like process to position the barcode and scanner. Barcodes can run the risk of getting wet or scratched due to mishandling or a harsh environment, which often prevents accurate reading by the scanner. Manual intervention is labor intensive, costly, and error-prone. In addition, scheduled scanning or manual methods cannot ensure the inventory remains up-to-date, due to oversights, errors, and internal shrinkage.

With Syncroft's RFID solution, inventory can be updated in real time without product movement, scanning or human involvement. Our fully automated system allows inventory status to be determined and shipping & receiving documents to be generated automatically. The system could also trigger automatic orders for products that are low in inventory.

Benefits of using our RFID Systems:

- Provides total asset visibility
- Gives full inventory history
- Allows reduced inventory-stocking levels
- Facilitates "Just-in-Time" deliveries
- Provides full process control for products in the facility
- Reduces lead-time
- Shortens cross docking time
- Speeds up sort/pick rate
- Reduces shelf space
- Provides higher-level security
- Reduces errors
- Reduces overall cost of operations

Hands free Access Control



Syncroft's RFID technology provides a hands-free access control solution with many advantages over traditional access control badges and systems.

With conventional systems, such as bar code, magnetic stripe, and proximity readers, user must handle the badge and place it close to (7-30 centimeters; 3-12 inches), or make physical contact with the reader. Syncroft's unique RFID access control technology allows the user to enjoy complete hands free access control. Our access badge can be read up to 5 (~16 feet) meters from the RFID reader, which usually eliminates the need to handle the badge or walk very close to the reader. This freedom is particularly important to handicapped workers, when carrying packages, and during inclement weather.

To make installation simple, many models of our RFID readers can connect to the access control computer through wireless communications. This eliminates the need for long wiring runs and allows a reader to be easily re-positioned or moved as needs change.

The Syncroft RFID access control system can report any unauthorized access and issue an alert to the host software. In addition, it can be used to trigger cameras and video recorders in order to capture unauthorized or authorized access in real-time.

Benefits of using our RFID Systems:

- Provides an access control solution that is truly hands-free and unencumbered
- Badges can be read up to 5 meters (~16 feet) from the access control doorway or portal
- Easy Installation & Maintenance
- Allows surveillance cameras and video recording equipment to be triggered when certain user-specified RFID events occur
- Syncroft's RFID tracker software allows RFID asset tags to be linked with the owner's access control badge to control movement of critical and high-value items into, out of, and within the facility

Parking Lot Access Control



Syncroft's RFID technology can provide independent, non-stop systems for security, parking, and access control. Our RFID technology provides businesses and communities with hands-free control to ensure only authorized vehicles have entry. The system can also provide access data for administering periodic access charges or parking fees.

Benefits of using our RFID Systems:

- Syncroft RFID tags can be affixed to automobiles for activating hands-free access to communities and parking lots
- The RFID reader can also trigger surveillance cameras or video recorders whenever a vehicle enters or exits the controlled area
- Each access can be recorded in the RFID reader or host computer's database to maintain a history of access activities and administer billing of daily, weekly, or monthly fees

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Fleet Tracking



With Syncroft's RFID technology, commercial, government, and private fleets can provide hands-free access to their maintenance depot. Our technology also allows them to efficiently collect, track, and report operations and maintenance data for all of their vehicles that are in the depot.

Syncroft's hands-free technology can enable gate access, authorize fueling, and automate weighing operations, while allowing all associated record-keeping to be automated.

Benefits of using our RFID Systems:

- Provides faster and more accurate vehicle check-in, re-fueling, weighing, maintenance, and check-out
- Tracks the location of cabs, trailers, and other fleet vehicles within the RFID-enabled parking lots, maintenance depot, and storage facilities
- Allows vehicle maintenance to be automatically recorded and tracked
- Allows a full history of fleet inventory to be maintained
- Reduces maintenance and record-keeping errors by positively identifying each vehicle entity as operations are being performed

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Manufacturing Line Tracking



Manufacturers can track and record in-process assembly information into the RFID tag as an item progresses along the line. For example, as features are added to a personal computer assembly, they could be recorded on the tag. In this case, the tag would keep a current "inventory" of the PC's contents. The tag information could later be read to produce a shipping list and invoice. The tag could also remain with the item for later use by field personnel during installation and maintenance.

Syncroft RFID solutions are ideal for manufacturers who build several products on a single production line, or manufacture complex or customized products. Assembly line personnel could use an RFID reader to verify which processes have been completed, to determine which inspections or tests are required and to automatically update the central production database. And production planners and inventory control personnel could use our RFID tags to automatically update the customer database and finished goods inventory, using an RFID reader and PC, rather than manually creating data entry sheets, which could introduce errors into the system.

Benefits of using our RFID Systems:

- Maintains current item information on the tag - ideal for managing production of complex or customized products and assemblies, eliminates the need for separate paperwork on assembly status and content
- Can automatically notify the central product database when each process has been completed
- Field personnel could use RFID tag to determine product features, date of manufacture, revision levels, etc.
- Real-time tracking of inventory, part kits and sub-assemblies

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Hospital Resource Tracking



Syncroft RFID system can be used to track patients, doctors and expensive equipment in hospitals in real time. RFID tags can be attached to the ID bracelets of all patients, or just patients requiring special attention, so their location can be tracked continuously. Our RFID technology can also provide an electronic link for wirelessly communicating patient data. An instant assessment of critical equipment and personnel locations is also possible through RFID technology.

These applications can be combined with Syncroft access control to allow only authorized personnel to access to critical areas of the hospital.

Benefits of using our RFID Systems:

- Continuously track each patient's location
- Track the location of doctors and nurses in the hospital
- Track the location of expensive and critical instruments and equipment
- Restrict access to drugs, pediatrics, and other high-threat areas to authorized staff
- Monitor and track unauthorized persons who are loitering around high-threat areas
- Facilitate triage processes by restricting access to authorized staff and "approved" patients during medical emergencies, epidemics, terrorist threats, and other times when demands could threaten the hospital's ability to effectively deliver services
- Use the patient's RFID tag to access patient information for review and update through a hand-held computer

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For Banking Sector



As a professional in the banking industry, you will probably expend more time and energy in getting your customers to sign up for new services and schemes that your organization concocts to provide better service and generate more returns. With the Internet keeping customers away from your branch office, how do you provide red carpet treatment to those valued customers who do visit the bank premises occasionally?

The answer is hidden in radio frequency identification (RFID) technology, which is being touted as the latest method of identification of customers even before they enter your portals, and provide personalized service accordingly.

Whether it's at a local bank or restaurant, everyone likes getting personal service. We have figured out a way to use RFID to help banks and other organizations to identify individual customers, so that they can be served more effectively.

Benefits of using our RFID Systems:

- Customers will have the option of carrying RFID-enabled cards that will allow bankers to keep track of when their most important clients visit their branches, and provide them with immediate service.
- They are also contemplating implementing cameras and display screens that will identify the customer and flash information related to the latest product or service that the customer is likely to be interested in, by mining information from his records even before he steps inside.
- Customers waiting on line are identified again as they approach the teller's window. Their bank balances are automatically called up on the teller's computer
- Using our system bank can trace history of client's recent interactions with the bank.
- RFID readers can be implemented in ATM's.

Contact Us

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