PASSIVE RFID SOLUTIONS FOR HEALTHCARE:

IMPROVE HOSPITAL PROCESSES WITH SMART ROOMS AND SYSTEMS

IMPROVE PATIENT CARE AND REDUCE COSTS

Over the last decade, RFID has become an integral part of the healthcare system and patient experience. The development of passive RFID platforms is driven by the potential to measure, report and monetize a growing number of transactions in hospitals and clinics.

For hospitals, this means less focus on the enabling technology and more on the improved processes and workflows. The result is less time and fewer resources to prove the technology, and more time spent to drive outcomes, including improved patient safety and satisfaction, compliance requirements, cost savings, and error proofing.

Passive UHF RFID offers considerable utility for hospital applications. Its unmatched combination of low cost and ease of deployment makes passive RFID readers and tags a cost effective way for hospitals to integrate RFID into a single or limited number of critical areas and then expand deployments when desired.

STARTING SMART

Hospital processes are complex; they are tied to the schedules of highly trained doctors and nurses, millions of dollars of medical equipment, and vast facilities. Therefore, it can be challenging to introduce change. Changing a procedure, eliminating a step, or introducing a new technology can have implications throughout several hospital departments and cost centers. To be successful, start smart.

RFID is an effective way to identify and track patients and medical accessories, improving both workflow and patient safety. A typical RFID patient badge or accessory tag can be detected at the range of 5-10 meters. Unlike WiFi technology, RFID detection requires no external sources of power besides the signal from the reader itself, and it uses the reader's own reflected RF signal to communicate.

The unique advantage of RFID over other technologies is that it is a forced and automated verification. If a patient wears an RFID badge, the patient is automatically subjected to verification at various locations where JADAK RFID readers are installed, without any further action required from the patient or medical personnel.

- Passive RFID is the most efficient technology for deploying innovative process-centric solutions in hospitals

- Passive RFID allows for scalable targeted deployments; as additional critical needs and resources are identified deployment can be added

- The flexible form factors of Passive RFID readers and tags allow for more diverse applications of the technology

- Passive RFID has a lower total cost of ownership than alternative technologies

- Rapid improvements in passive RFID technology increases the potential for new and innovative applications

SMART RFID SOLUTIONS FROM XECAN - Powered by JADAK RFID

In a smart RFID hospital, patient location and wait times are automatically recorded when the patient enters a specified area. Tracking of patients throughout designated areas is ensured with proper placement of the JADAK RFID readers. This location and identification information can be visualized by means of RFID-enabled whiteboards. These web-based tracking whiteboards can be accessed by staff from both desktop or hand-held computers. With these solutions in place, the hospital can operate more efficiently, wait times can be significantly reduced, and patient satisfaction can be greatly improved.

Smart RFID Reception

The smart RFID solution automates the greeting and queuing of patients, resulting in an efficient, cost effective, and personalized manner. This also allows patients to be immediately seated after arrival.

Smart RFID Radiation Treatment Rooms

Patients retain their RFID badges during the entire radiation treatment period and return their RFID badge at the conclusion of the session. The returned badges can then be reused for future patients.

Smart RFID Patient Tracking Whiteboards

With this solution, traditional dry erase "whiteboards" with handwritten entries are replaced by automated RFID-enabled electronic whiteboards. Patient location is automatically displayed and updated in real-time on these monitors. This results in reduced wait-time and a better patient experience.

"Patient safety is our top priority. By eliminating all manual intervention to automatically open the treatment chart for the patient who enters the procedure room, we can be certain that we have the 'right patient, right site' with every single treatment session. A fully integrated RFID-EMR solution represents a substantive improvement in patient safety. Our testing to date has shown the system to be highly robust."
Per Halvorsen, Director of Medical Physics, Alliance Oncology LLC.

XECAN RFID solutions are currently in use in the USA, Europe and Asia. User reviews, along with a complete description of its system, can be found on Xecan's website: www.xecan.com.

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