

BIOMEDICAL HEALTH CARD

Contactless smart cards are used in information technologies as portable integrated devices with data storage and data processing capabilities. As in other fields, smart card use in health systems becomes popular due to their increased capability and performance. Smart cards are used as an electronic health card because of their efficient use with easy and fast data access facilities leads to implementation particularly in hospitals.

Here we are implementing a microcontroller based health cards using contactless smart card technology, is supporting a wide variety of features and applications. The system uses contactless smart card for personal identification and transfer of health data and provides data communication. In addition to personal information, general health information about the patient is also loaded to patient smart card, like blood pressure, diabetes mellitus, pulse rate, clinical parameters etc. The smart card reader in our system reads the information from the card and store the details in SD card. It is interfaced with MCU through an serial peripheral interface. Electronic health records have number of advantages over paper record, which improve the accuracy, quality of patient care, efficiency, improve the security and privacy of patient information, provides the secure carrier for portable medical records. The entire health status of the person can be stored in the smart card during each consultation, modification can be added, hence no other health record to be needed.

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