Abstract

Remote Patient Monitoring is an alternative to regular home check-ups of patients with special medical conditions, physically challenged and the elderly who are unable to regularly visit a healthcare facility. Remote Patient Monitoring system allows the patient to be monitored remotely from their home itself. The system described here allows data acquisition from the fixed sensors. It is cheaper to monitor the elderly and infirm about patient physical states to the remote system. The doctor can directly monitor the patient’s information. This paper also includes the web part; the patient’s database is monitored through embedded web server. The monitoring center receives the information from the patient and maintains the database, based on it the doctor can judge the patient status and then diagnose. The system uses the IEEE 802. 15. 4 standard and low cost Zig-Bee technology for wireless communication between the patient data acquisition system and the patient monitoring system and it supports the distance from 30m to 100m depends upon the power and output. Zig-Bee uses frequency bands of 2. 4 GHz, and its transmission rate is 20 kbps to 250 kbps. The proposed system uses the high end processor ARM (Advanced RISC Machine).
References

- Shaojie Lin, Qiong Liu, Xiaoming Wu, Shanglin Li and Zhicong Zhao, "Wireless monitoring system via Zig-Bee in ICUs", IFMBE Proceedings, Volume -19, 2008.

Index Terms

Computer Science
Embedded Systems
Keywords
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