Remote synchronized clock

Christopher Mohan Chugani, author

Abstrak

The aim of this project is to remotely using RF to synchronize the time of the Message Display System with the UTC time received by the GPS receiver and ensuring that the message which is generated by the computer is displayed in the message board. Since this is not a new project but a continuity of a past project, this task will be accomplished using the components used before- The components are the PIC16F28 microcontroller which has the UART function, MAX3110 for additional UARTS and the NRF401 Module to transmit and receive data. Expected Coverage of the RF system is the whole of QUT. Completion of this project will be beneficial to QUT as the message boards can be placed anywhere in QUT displaying up-to-date time and information. On the other hand, it benefits the students as they will have more experience in RF Technology. According to the plan, the GPS receiver and the computer wit) be established in the roof of S block. However, the Message Display System can be located anywhere in QUT. Therefore, our requirement is to design a wireless system using RF that can cover the whole of QUT so that clock synchronization and message transmission is possible anywhere within QUT radius.