

Design of a radio wave-based electrical device control system using the NRF24L01 module

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Abstract: In today's digital age, remote control of electrical devices via radio waves has become a strong development trend. This topic focuses on researching and designing a system for controlling electrical devices through a wireless network using the NRF24L01 module, aiming to solve the problem of efficiently managing devices in a wireless environment. The research method includes technical analysis, programming, and practical application deployment on the Arduino platform. The expected results will contribute to the IoT field and provide users with a flexible solution for remotely controlling electrical devices, bringing many benefits to industries and households.

Keywords: Wireless control system, NRF24L01, Electrical equipment, IoT, Arduino