

Design of an environmental temperature measurement system on the STM32 KIT

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Abstract: In the context of IoT technology becoming popular in environmental monitoring and management, this topic focuses on designing and deploying an ambient temperature measurement system using the STM32 Kit. The main objective of the project is to create an effective solution for collecting temperature information in various practical applications such as agriculture, industry, and urban areas. Through a combination of theoretical research and application deployment, this topic not only confirms the accurate measurement capability of the STM32 Kit but also makes important contributions to the development of automated environmental monitoring systems.

Keywords: IoT, STM32 Kit, Smart City, High-tech Agriculture, Temperature Monitoring